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FARM AND

GARDEN

SUPPLIES

GENERAL OFFICES, 205, 207, 209, 213 & 215 N. PACA ST.

BALTIMORE, MD.

BRANCH HOUSES, 366 N. GAY ST. BALTIMORE AND REISTERSTOWN, MD.

Prospective Customers who are not rated in the Commercial agencies will save time in having their goods shipped by accompanying their Orders either with the Cash or satisfactory references. Baltimore references preferred.

NOTICE.—We make a specialty of quoting on complete outfits. **SEND FOR PRICES.**

FILLING ORDERS.—Every order is filled and forwarded as promptly as possible, but if not duly received, please notify us and we will make every effort to trace it without delay. Do not fail to sign your name and give full address.

PACKING AND SHIPPING.—We make no charge for boxes or packing of retail orders, and deliver all goods to any railroad or steamboat free of charge. We charge for cotton bags as follows: Peck and 1/2 bushel, 10 cents each; 1 bushel, 15 cents each; 2 bushels, 20 cents each.

HOW TO REMIT.—Remittances should be made by Draft, Express Money Order, P. O. Money Order or Registered Letter.

WE PAY THE POSTAGE TO ANY POST OFFICE IN THE UNITED STATES ON ALL VEGETABLES AND FLOWER SEEDS, by the Packet, Ounce or Quarter Pound. On quantities over quarter pound the purchaser pays the postage at a rate of 8 cents per pound. On Beans, Peas and Corn, 8 cents per pint or 15 cents per quart should be added to Catalogue Prices to pay postage.

ON EVERY ORDER be sure to sign your name and give your address plainly, as we frequently receive orders lacking either or both; also give full shipping instructions, State if by freight or express and give route. This saves delay.

PRICES TO MARKET GARDENERS.—Market gardeners, and all other purchasers of Seeds in large quantities, should send for our special prices.

TIME FOR SOWING IN THE OPEN GROUND.

THESE DIRECTIONS apply to the vicinity of Baltimore and Philadelphia. South of this they should be sown earlier, and North later.

BEANS.—From 1st of May till August.

BEETS.—Soon as ground can be worked in spring.

CABBAGE.—For early use, sow in hot bed in February and transplant in April to open ground; for late use, sow in May or June.

CAULIFLOWER.—Sow about the same time as Cabbage. For late crop sow in June, and they will head up in cool weather, and escape injury from the heat.

CARROT.—For early, sow from 1st of April to middle of May, and for late crop in June or July.

CELERY.—Sow as soon as ground is open in spring, and transplant in July.

CUCUMBER.—Sow about 1st of May for early, and for pickling, in July.

LETTUCE.—Sow as soon as ground can be worked in spring, and at intervals as desired.

MELONS.—Sow in May and June.

ONION.—Sow early as possible in spring.

PARSNIP.—Soon as ground can be worked.

PEAS.—Sow in March, and at intervals through the season, as desired.

PUMPKIN.—Plant in May or June.

RADISH.—Soon as ground is ready, and all through the season, at intervals.

SQUASH.—Soon as ground is warm.

TOMATO.—Sow in hot bed in March, and transplant about middle of May.

TURNIP.—For early use, in April: for main crop, July and August.

CABBAGE.—1 oz. of Seed will produce.....2000 plants.

CAULIFLOWER.—1 oz. of Seed will produce.....2000 "

CELERY.—1 oz. of Seed will produce.....3000 "

EGG PLANT.—1 oz. of Seed will produce.....1000 "

LETTUCE.—1 oz. of Seed will produce.....3000 "

PEPPER.—1 oz. of Seed will produce.....1000 "

TOMATO.—1 oz. of Seed will produce.....1500 "

TO COUNTRY MERCHANTS.

WE PUT UP VEGETABLE SEEDS in papers for the Country Trade in quantities to suit purchasers.

Our seeds are select and tested, and give satisfaction wherever used.

Beans, Peas, Corn, etc., in bulk, at lowest wholesale rates. Write for special quotations in quantities.

Should you have placed your order for small papers for this year, we will be pleased to fill any shortage you may have, and solicit your patronage for another season.

HINTS ON TRANSPLANTING TREES.

The proper season for transplanting fruit trees is during the months of February, March and April in the spring, and October, November and December in the autumn.

PROPER AGE AND SIZE OF TREES FOR TRANSPLANTING.

Experience has taught observing planters that a small, young tree, set at the same time, will in a few years overtake and pass a large one, and continue more vigorous and productive. Large trees are necessarily or unavoidably more injured in digging than small ones. The latter can be moved with their system of roots almost entire.

NUMBER OF TREES AND PLANTS TO AN ACRE.

3 feet each way.....	4840	20 feet each way.....	108
4 " " ".....	2722	25 " " ".....	69
5 " " ".....	1742	30 " " ".....	48
6 " " ".....	1210	33 " " ".....	40
8 " " ".....	680	35 " " ".....	35
10 " " ".....	435	40 " " ".....	27
12 " " ".....	302	45 " " ".....	21
15 " " ".....	193	50 " " ".....	17
18 " " ".....	134		

DISTANCE FOR PLANTING.

Std. Apple.....	33 to 40 feet each way.
Std. Pear and large-growing Cherry.....	20 " " "
Duke and Morello Cherry.....	20 " " "
Std. Plum, Apricot and Nectarine.....	15 to 20 " " "
Peach.....	20 " " "
Quince.....	12 " " "
Dwarf Pear.....	10 " " "
Currant, Gooseberry, Raspberry and Blackberry.....	4 to 5 " " "
Grapes.....	6 to 10 " " "

WEIGHT OF AGRICULTURAL SEEDS, PER BUSHEL, AND QUANTITY USUALLY SOWN PER ACRE.

Weight per Bushel.	Pounds per Acre.
14 lbs. Kentucky Blue.....	28 lbs.
10 " Red Top, if for lawns.....	30 to 40 "
10 " Red Top, if for pasture.....	15 to 30 "
32 " Red Top, extra cleaned.....	20 to 25 "
14 " Orchard Grass.....	42 "
34 " English Rye or Perennial Rye.....	60 "
22 " Italian Rye.....	50 "
14 " Meadow Fescue.....	50 "
14 " Tall Meadow Fescue.....	50 "
12 " Sheep Fescue.....	30 "
7 " Meadow Foxtail.....	30 "
21 " Crested Dog's Tail.....	25 "
14 " Awlless Brome.....	35 to 40 "
14 " Wood Meadow.....	30 "
20 " Creeping Bent.....	50 "
10 " Tall Meadow Oat.....	50 "
45 " Timothy, alone.....	1/2 bus.
..... with other grasses.....	8 to 10 lbs.
60 " Alsike, alone.....	6 "
60 " Alfalfa or Lucerne.....	20 "
60 " White Clover, alone.....	6 "
..... White Clover, with other grasses.....	3 "
20 " Evergreen Lawn.....	3 to 4 bus.
60 " Crimson Clover.....	15 to 20 lbs.
50 " German Millet.....	50 "
48 " Hungarian Millet.....	48 "
60 " Red Clover.....	15 "
..... Together for an acre.....	
..... Red Clover.....	8 "
..... Timothy.....	10 "
..... Red Top.....	14 "
60 " Wheat, broadcast.....	1 1/2 to 2 bus.
..... Wheat, in drills.....	1 1/2 to 2 "
56 " Rye, broadcast.....	1 " "
32 " Oats, broadcast.....	2 to 2 1/2 "
48 " Sorghum, drills.....	4 qts.
..... Sorghum, broadcast.....	8 "
56 " Flax, for seed.....	1 bus
..... Flax, for fibre.....	2 to 3 "

WEIGHT OF AGRICULTURAL SEEDS, QUANTITY, ETC.—Continued.

Weight per Bushel.	Pounds per Acre.
56 lbs. Field Corn, in hills.....	8 qts.
56 " Corn, for soiling.....	1 to 2 bus.
60 " Vetches, broadcast.....	2 to 3 "
48 " Barley, broadcast.....	2 "
..... Broom Corn, in hills.....	6 to 8 qts.
48 " Buckwheat, broadcast.....	1 bus.
..... Teosinte, in hills.....	1 to 3 lbs.
44 " Hemp.....	22 "

VEGETABLE SEED TABLET

THE QUANTITY OF SEED USUALLY SOWN TO AN ACRE.

Asparagus.....	5 lbs.
Beans, dwarf in drills.....	1 to 1 1/2 "
Beans, pole, in hills.....	8 to 10 qts.
Beet, in drills.....	4 to 6 lbs.
Cabbage, in beds, to transplant.....	1/4 lb.
Carrot, in drills.....	2 to 3 lbs.
Celery, to transplant.....	1/2 lb.
Corn, in hills (sugar).....	8 qts.
Kale.....	4 to 6 lbs.
Melon, musk.....	1 1/2 to 2 "
Melon, water.....	2 to 3 lbs.
Mustard, broadcast.....	12 to 16 lbs.
Mangelwurzel.....	4 to 6 lbs.
Onions, in drills to make large onions.....	6 to 8 "
Onion Seeds, for small sets.....	40 to 60 "
Parsnips, in drills.....	4 to 6 "
Peas, early, in drills.....	1 bus.
Peas, Marrowfat, 2n drills.....	1 1/4 "
Peas, broadcast.....	2 to 3 "
Potato, cut tubers, in drills.....	8 "
Radish, in drills.....	6 to 8 lbs.
Radish, broadcast.....	10 "
Salsify, in drills.....	6 to 8 "
Spinach, in drills.....	12 to 15 "
Squash, lush varieties, in hills.....	4 to 6 "
Squash, running varieties, in hills.....	3 to 4 "
Turnip in drills.....	1 lb.
Turnip, broadcast.....	2 to 3 lbs.
Tomato, to Transplant.....	1/4 lb.

QUANTITY OF SEEDS REQUIRED FOR A GIVEN NUMBER OF PLANTS, NUMBER OF HILLS, OR LENGTH OF DRILLS.

Asparagus.....	1 oz. to 50 ft. drill
Beet.....	1 oz. to 50 ft. drill
Celery.....	1 oz. to 100 ft. drill
Carrot.....	1 oz. to 100 ft. drill
Endive.....	1 oz. to 150 ft. drill
Egg Plant.....	1 oz. to 300 ft. drill
Lettuce.....	1 oz. to 150 ft. drill
Okra.....	4 oz. to 100 ft. drill
Onion.....	1 oz. to 100 ft. drill
Onion Sets, small.....	1 qt. to 100 ft. drill
Parsley.....	1 oz. to 150 ft. drill
Parsnip.....	3 oz. to 100 ft. drill
Radish.....	2 oz. to 100 ft. drill
Salsify.....	1 oz. to 70 ft. drill
Spinach.....	2 oz. to 100 ft. drill
Turnip.....	1 oz. to 150 ft. drill
Peas.....	1 qt. to 100 ft. drill
Dwarf Beans.....	1 qt. to 100 ft. drill
Leek.....	1 oz. to 100 ft. drill
Pole Beans.....	1 qt. to 150 hills
Corn.....	1 qt. to 200 hills
Cucumber.....	1 oz. to 50 hills
Watermelon.....	1 oz. to 30 hills
Muskmelon.....	1 oz. to 80 hills
Pumpkin.....	1 oz. to 40 hills
Early Squash.....	1 oz. to 50 hills
Marrow Squash.....	1 oz. to 16 hills
Cabbage.....	1 oz. seed will produce 2000 plants
Caulifl'r.....	1 oz. seed will produce 2000 plants
Celery.....	1 oz. seed will produce 3000 plants
Egg Plant.....	1 oz. seed will produce 1000 plants
Lettuce.....	1 oz. seed will produce 3000 plants
Pepper.....	1 oz. seed will produce 1000 plants
Tomato.....	1 oz. seed will produce 1500 plants

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Griffith & Turner Co's

ANNUAL CATALOGUE FOR 1909

BEST GOODS :: LOW PRICES

OUR SEEDS are the BEST that can be obtained anywhere, because we are as careful in our selection as it is possible for anyone to be, and are constantly on the lookout for the best of everything, but will not put on the market anything until it has been thoroughly tried and proved.

No matter what others may ask for their seeds, better quality cannot be obtained anywhere, as our constantly and rapidly increasing trade does and will testify.

Our Seeds are ALL TESTED thoroughly before being placed on the market.

HOW TO ORDER TO AVOID DELAY.—All orders from unknown correspondents should be accompanied with the cash. Money can be safely sent by check, postoffice order, express money order, registered letter or by express, or postage stamps for small amounts. We prepay postage on all orders of Vegetable and Flower Seeds, by the packet, ounce or quarter pound. On quantities over quarter pound, the purchaser pays the postage at the rate of 8c. per pound. On Beans, Peas and Corn, 8c. per pint or 15c. per quart should be added to catalogue prices to pay postage.

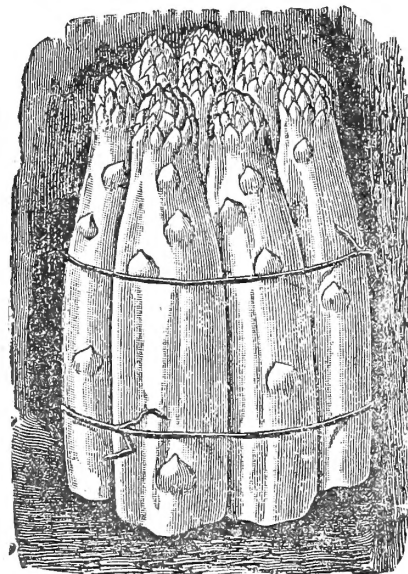
By writing out your order on the order sheet sent with each catalogue you will greatly facilitate our work. Extra order sheets sent on application. Be sure to sign your name in full, giving postoffice and shipping point. If you have rural delivery, give name and number of route. If you want goods shipped by boat or railroad, state which you prefer and what line to send by.

GRIFFITH & TURNER CO. give no warranty, expressed or implied, as to description, quality, productiveness, or any other matter, of any Seeds, Bulbs or Plants they send out, and they will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

ASPARAGUS, German Spargel

This is one of the earliest spring vegetables, and should be in universal use. Many persons think it is difficult to grow, but we consider this a mistake, and believe it can be produced as cheaply and easily as any on the list. Sow the seed in the seed bed late in the fall or the early spring, as soon as the ground can be worked, in drills one foot apart, covering the seed about one inch deep. When the plants are four to five inches high, great care should be taken to keep the bed free of weeds. One ounce of seed will sow forty feet of row. Thin to nine inches in the row.

MAMMOTH WHITE ASPARAGUS



MAMMOTH WHITE.

In addition to the marvelous advantage of its pure white color, the Columbian Mammoth White Asparagus is even more robust and vigorous in habit and throws larger shoots, and fully as many of them, as the Conover's Colossal.

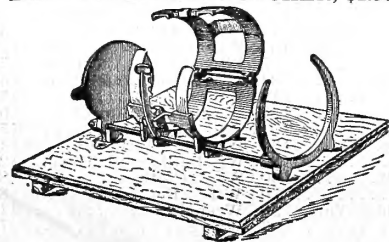
When we add to these the immense advantage of its needing no earthing up in order to furnish the white shoots so much sought after, we think it evident that it is superior to any sort now in cultivation, and that no Asparagus grower can afford to plant seed of any other kind. Market gardeners, growers for canners, and amateurs should give this great acquisition a thorough trial. Pkt., 5c.; Oz., 10c.; ¼ lb., 20c.; Lb., 60c.

ASPARAGUS KNIFE

Made of solid steel; see the cutting point. Price, 30c. each. By mail, 40c.



BEST ASPARAGUS BUNCHER, \$1.50



ARTICHOKES

LARGE GREEN GLOBE.—This is a very nice vegetable to eat. Some prefer it cooked like asparagus; that is, take the flower head before it begins to open and cook much the same way as asparagus. Packet, 10c.; Ounce, 35c.

PALMETTO ASPARAGUS



This Asparagus, said to have originated in South Carolina, is now quite extensively grown by Southern gardeners for New York and Philadelphia markets, where it sells at very high prices, owing to its mammoth size and regularity. An average bunch of 15 shoots will measure 13 to 14 inches in circumference. For several seasons this Asparagus has reached Northern markets 10 days ahead of all other varieties, and sold at fabulous prices. Pkt., 5c.; Oz., 10c.; ¼ lb., 20c.; Lb., 50c.; 5 lbs., \$2.00.

BARR'S MAMMOTH

This splendid variety, highly recommended for its many good qualities, is very productive and about 10 days earlier than Conover's Colossal. The stalks are very large, and retain their thickness completely up to the top of the shoots; very tender and succulent; of delicious flavor; grow very quickly; light in color. Pkt., 5c.; Oz., 10c.; ¼ lb., 20c.; Lb., 50c.; 5 lbs., \$2.00.

CONOVER'S COLLOSSAL

The old and well-known variety. Pkt., 5c.; Oz., 10c.; ¼ lb., 15c.; Lb., 40c.; 5 lbs., \$1.50.

ASPARAGUS ROOTS

A saving of one to two years is effected by planting roots. A bed 12 x 40 feet, requiring about 100 roots, should give a sufficient supply for an ordinary family. 7260 roots will plant an acre. Select good loamy soil, plow deep, put in good quantity of manure and 100 pounds kainit to 1000 square feet of bed. Incorporate thoroughly, make a trench eight inches deep, set plants nine inches apart. In field culture rows are placed four feet apart.

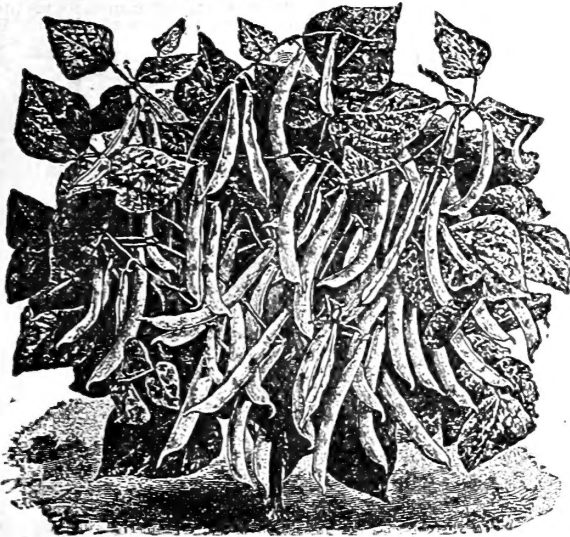
	Per 100.	Per 1000.
BARR'S MAMMOTH.....	\$.75	\$5.50
COLOSSAL (GREEN).....	.70	5.00
PALMETTO (GREEN).....	.70	5.00
MAMMOTH WHITE.....	.75	5.50

Prices, by express, not prepaid.

JERUSALEM.—The tubers roasted or boiled, served with butter, salt and pepper, make a dish some think superior to potatoes. They are most excellent feed for cows, and will cause an increase in quantity and quality of milk. Peck, \$1.00; bushel, \$2.50.

BEANS

One Quart Will Plant 100 Feet of Drill.



BLACK VALENTINE.—This excellent extra early variety has perfectly round, straight pods of excellent quality. It is suitable both for early and late planting, being extremely hardy. A most desirable sort for the market gardeners, owing to its enormous yielding qualities, large and handsome appearance. **Pt., 15c. Qt., 30c. Pk., \$2.25. Bus., \$8.00.**

DWARF HORTICULTURAL (Cherry).—Very green podded sort, used as a shell bean, and for this purpose is one of the finest in general use; long a favorite with those who use a shell bean in a green state. **Pt., 15c. Qt., 30c. Pk., \$2.00. Bus., \$6.50.**

BEST OF ALL.—One of the most valuable green podded sorts for family or market use. Pods are six inches long, very fleshy, succulent, stringless, of rich flavor; produced early and abundantly. **Pt., 15c. Qt., 30c. Pk., \$2.00. Bus., \$6.50.**

DWARF GREEN PODDED SORTS

Select light, warm soil, and plant when danger from frost is past in the spring, in drills 2 to 2 1/2 feet apart, dropping the beans about 2 inches apart in the drills, and cover 2 inches deep. A succession of sowings can be made from the first week in May until August.

Add 8c. per pint, or 13c. per quart, on all Beans if to be sent by mail.
EARLIEST MARKET.—This is well named, being the earliest bean in existence, and therefore very profitable to the market gardener, and desirable to the private gardener as well. The pods are long, broad, green and very showy, reaching maturity in 30 days from germination, and the habit of vine very productive. **Pint, 25c. Quart, 40c.**

EXTRA EARLY BOUNTIFUL (Flat Green Pod).—A prolific and continuous bearer. The first in the spring, the last in the fall. Absolutely stringless, very tender, and of delicious flavor. **Pint, 15c. Quart, 30c. Peck, \$1.75.**

G. & T. CO.'S EXTRA EARLY RED VALENTINE.—Ten days earlier than the ordinary Red Valentine Bean, and therefore the best for truckers and market gardeners. It is without doubt the very best and earliest green Snap Short Bean. The habit of the vine is dwarfed and very uniform. Color of pods light green, round, curved, succulent, prolific, continuing long in edible condition. **Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$4.75.**

EARLY RED VALENTINE.—Pint, 15c. Quart, 20c. Peck, \$1.25. Bushel, \$4.50.

BURPEE'S NEW STRINGLESS GREEN POD.—One of the earliest varieties, pods round and full, absolutely stringless, and of beautiful fleshy appearance; quality excellent. The only green pod bean of which the pods never develop any strings. **Pint, 20c. Quart, 30c. Peck, \$1.75. Bushel, \$6.00.**

GIANT STRINGLESS GREEN POD.—Resembles very much the old Valentine. The plants are of strong growth, very productive; pods 5 inches long, light green, slightly curved, very meaty, brittle and stringless at all stages and of mild flavor. **Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.75.**

EXTRA EARLY REFUGEE.—It is similar in every respect to the ordinary Refugee, but is nearly two weeks earlier. It is enormously prolific, and from its earliness is almost certain to produce a crop, no matter how unfavorable the season; is rapidly becoming a favorite sort, as it matures equally early with Red Valentine, and has that beautiful silvery green color in the pods that is so much desired. **Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$4.75.**

REFUGEE, or 1000 TO 1.—A medium to late variety, very productive and largely grown for pickling; handsome and tender pods. **Pint, 15c. Quart, 25c. Peck, \$1.50. Bus., \$4.75.**

EARLY MOHAWK.—P., 15c. Qt., 20c. Pk., \$1.25. Bus., \$4.50.

LONG YELLOW 6 WEEKS.—Very early, hardy bean. **Pint, 15c. Quart, 20c. Peck, \$1.25. Bushel, \$4.50.**

WHITE MARROWFAT.—Extensively grown for sale as a dry bean for winter use. **Qt., 20c. Pk., \$1.25. Bus., \$4.50.**

WHITE NAVY, or SMALL PEA BEAN.—A well-known variety for field culture; very prolific. **Quart, 20c. Peck, \$1.25. Bushel, \$4.25.**

DWARF WAX PODDED BEANS

WARDWELL'S KIDNEY WAX BEAN.—This is one of the best wax sorts. The vines are remarkably vigorous, hardy and productive. The pods are very large, smooth, showy, tender, perfectly stringless and of unusually fine quality. **Pt., 15c. Qt., 25c. Pk., \$1.75. Bus., \$6.00.**

NEW PENCIL POD WAX BEAN.—Very early and productive. Pods long, straight and handsome; color, light golden yellow; strong and vigorous bush. One of the best varieties. **Pint, 15c. Quart, 25c. Peck, \$1.75. Bushel, \$6.00.**

CURRIE'S RUSTPROOF BLACK WAX.—For earliness and freedom from rust it is at the head of the Wax Bean family. Habit, upright and robust, holding the pods well from the ground. Pods long, straight, flat and very meaty, of a beautiful color; quality not surpassed, and for productiveness it is unequalled. **Pt., 15c. Qt., 25c. Pk., \$1.75. Bus., \$6.00.**

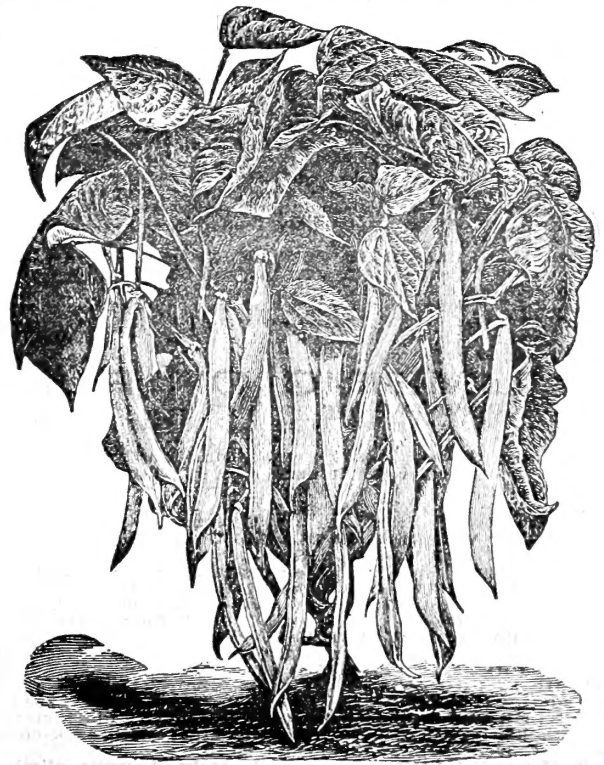
IMPROVED RUSTPROOF GOLDEN WAX.—This is the earliest, handsomest and hardiest of all the Wax Beans. The pods are straight, long and thicker than the ordinary Golden Wax, much superior in quality, absolutely rustproof and sure to become the favorite Wax Bean; in fact, it has already gained great popularity with growers. **Pint, 15c. Quart, 30c. Peck, \$1.50. Bushel, \$6.00.**

GOLDEN-EYED WAX.—This Bush Bean is very early; the vine grows vigorously to about one and a half feet high, holding pods off the ground. The pods are handsome, long, straight and flat, remarkably free from rust. **Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.50.**

DAVIS' KIDNEY WHITE WAX.—Vigorous grower, bears abundantly; long, white, handsome pods, which are crisp and tender if gathered when young. **Pint, 15c. Quart, 25c. Peck, \$1.50. Bushel, \$5.50.**

DWARF PROLIFIC BLACK WAX.—Yellow pod, a very superior snap sort, ripening among the first earlies, and having the best characteristics. Very tender. **Pint, 15c. Quart, 25c. Peck, \$1.75. Bushel, \$6.00.**

HODSON WAX.—The most vigorous wax podded bean yet introduced. The yield of large, handsome pods is enormous. Its dense foliage protects the pods that their color is clear creamy white. Pods very long, straight or slightly curved, flat but fleshy, quite stringless and of very good quality. While late in maturing the remarkable vigor of the plant is a safeguard against blight and other diseases. **Pint, 20c. Quart, 30c. Bushel, \$6.00.**



BUSH LIMA BEANS

The Bush Lima Beans Are Rapidly Gaining Friends, and Have Evidently Come to Stay

BURPEE'S BUSH LIMA.

Bushes grow 18 to 20 inches high, stout growth and always erect, yet branching so vigorously that each plant develops into a magnificent circular bush 2 to 3 feet in diameter; an immense yielder, each bush bearing 50 to 200 handsome, large pods, well filled. Pt., 15c.; qt., 30c.; pk., \$2.00; bus., \$7.50.

BURPEE'S QUARTER CENTURY BUSH LIMA.—A strain of the above, but an improvement. About 10 days earlier. Pt., 25c.; qt., 40c.; pk., \$2.00.

DREER'S BUSH LIMA.—Dwarf variety of Dreer's Improved Lima, which has been fixed in its character of a bush bean; very prolific, single plants often producing 150 to 200 pods. Equal in quality and tenderness to Dreer's Pole Lima. Pt., 15c.; qt., 30c.; pk., \$2.00; bus., \$7.50.

HENDERSON'S DWARF LIMA. These are very valuable because they do not need poles, and being so dwarf can be planted close together. They are very early and prolific, continuing to bear until frost. Pt., 15c.; qt., 30c.; pk., \$2.00; bus., \$6.75.



BURPEE'S BUSH LIMA.

HENDERSON'S EARLY LEVIATHAN.—This is the very earliest. It will not only give large lima beans earlier than any other strain, but is also much more productive, both early and throughout the season. It is a strong grower, clinging well to the poles, and is a sure cropper. The pods hang out from the foliage in large clusters and contain three or four and sometimes five large beans to the pod. Pt., 15c.; qt., 30c.; pk., \$2.00.

KING OF THE GARDEN LIMA.—This bean has met with enormous sales the past few seasons. They are vigorous growers, setting their beans early at bottom of pole, producing continuously to the end of the season. They are more prolific than the ordinary Lima, bearing pods 5 to 7 inches long, in clusters of 4 and 5, with 5 or 6 beans in a pod. Pt., 15c.; qt., 30c.; peck, \$2.00; bushel, \$7.00.

EXTRA LARGE WHITE LIMA.—This is a splendid sort, and takes a leading place with growers, because of its many excellent qualities. As a shell bean surpasses all in quality, and is the favorite with most people. Pt., 15c.; qt., 30c.; pk., \$2.00; bus., \$7.00.

FORD'S MAMMOTH POLE LIMA BEAN.—The pods grow to an average length of 8 inches, are produced in great clusters, with from 5 to 7 beans per pod of most excellent quality for using either green or dry. The vines grow vigorously, setting the beans early at the bottom of the pole, and continue in bearing up to frost. Pt., 15c.; qt., 30c.; pk., \$2.00; bushel, \$7.00.

EXTRA EARLY JERSEY LIMA.—This variety is two weeks earlier than other sorts; the pods are large and numerous, making it a very profitable sort to grow. Pint, 15c.; quart, 30c.; peck, \$1.75; bushel, \$7.00.

SEIBERT'S LARGE EARLY.—A very early and prolific strain of the Large Lima. The vines begin bearing pods considerably earlier than the regular strains of Large Limas. While the pods are only of medium length, they are well filled, containing 3 and 4 large, fleshy beans, which are extremely tender and fine in flavor. Pint, 15c.; quart, 30c.; peck, \$1.75; bushel, \$7.00.

DREER'S IMPROVED OR CHALLENGE POLE BEAN.—This popular bean is considered by many growers superior to all others in quality and productiveness. When green it is as large as the Large Lima, thicker, sweeter and more tender and nutritious, remaining green in the pod for a long time after maturing. Pint, 15c.; quart, 30c.; peck, \$2.00; bushel, \$7.50.

CAROLINA, OR SIEVA.—A seedling variety of Large White Lima, with small pods, usually about 2 inches long. A little earlier and harder. Pint, 15c.; quart, 30c.; peck, \$1.75; bushel, \$7.00.

CLIMBING OR POLE BEANS

MARYLAND WHITE.—This new White Pole Bean is destined to take its place as one of the best beans ever grown for general purposes. Its thick, meaty, green pods are very tender, rich in flavor, and produced in great abundance. It is equally valuable as a snap or shell bean. It has been grown in Maryland to a very limited extent for a few years, and those who have grown it once want it again. Pt., 15c.; qt., 30c.; pk., \$2.00; bus., \$7.50.

LAZY WIFE.—Large pale green pods, very thick meated, stringless, rich, tender and buttery; ripens early; clings well to the pole; enormously productive; splendid either as a snap or shell bean. Pint, 15c.; quart, 30c.; peck, \$2.00; bushel, \$7.50.

KENTUCKY WONDER, OR OLD HOMESTEAD.—A very prolific sort, bearing its pods in large clusters; pods green, often reaching 9 to 10 inches in length, nearly round when young, and very crisp. Pint, 15c.; quart, 30c.; peck, \$2.00; bushel, \$7.00.

SPECKLED HORTICULTURAL, OR WREN'S EGG.—An old favorite for both snap-shorts and dry beans. Pint, 15c.; quart, 30c.; peck, \$2.00; bushel, \$7.00.

WHITE CHERRY.—Great favorite. Pint, 15c.; quart, 30c.; peck, \$1.75; bushel, \$6.50.

CREASE BACK, OR FAT HORSE.—A well-known and highly esteemed Southern variety; very productive; forms full, round pods; fleshy; stringless and distinctly creased along its back, hence its name. Pint, 15c.; quart, 30c.; peck, \$2.00; bushel, \$7.50.

SOUTHERN PROLIFIC.—A splendid, vigorous and productive variety. Pods in clusters, succulent and delicious; matures early; continues bearing until frost. Pint, 15c.; quart, 30c.; peck, \$2.00; bushel, \$7.00.

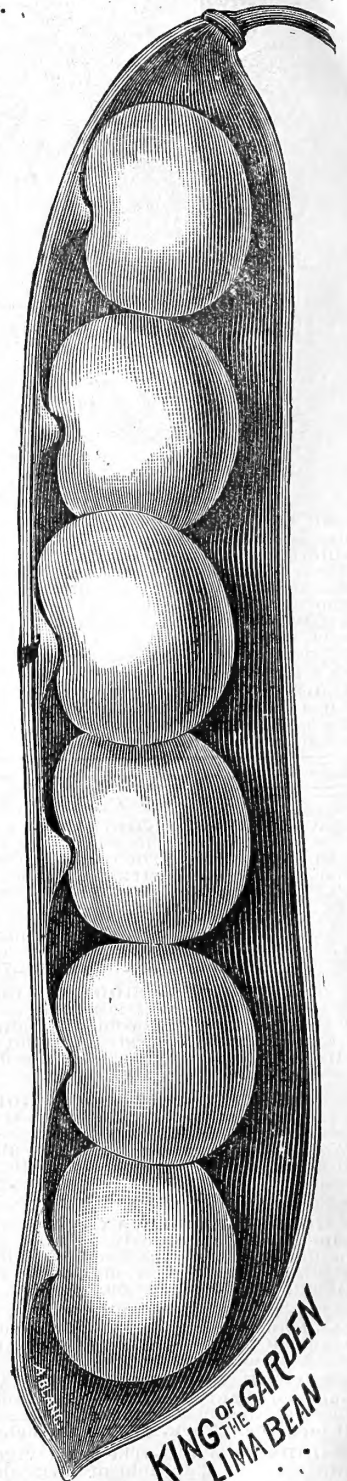
SPECKLED CUT-SHORT, OR CORN HILL.—An old variety, very popular for planting among corn, and will give a good crop without the use of poles; vines medium, with dark-colored, smooth leaves; pods short, cylindrical and tender. Pint, 15c.; quart, 30c.; peck, \$1.75; bushel, \$6.50.

DUTCH CASE KNIFE.—Vines moderately vigorous, climbing well; may be used for a corn-hill bean; leaves large, crumpled; blossoms white; pods long, flat, irregular green, but becoming cream white. Pint, 15c.; quart, 30c.; peck, \$2.00; bushel, \$7.00.

POLE LIMA BEANS

Set the poles 3 to 4 feet apart and plant 6 to 8 beans, with the eyes downward, around each pole, thinning to 4 healthy plants when they are up. They require the same soil and treatment as the dwarf varieties, with the exception that they crave stronger soil and do best in a sheltered location.

When Beans are sent by mail add, for postage, 8c. per pt., 15c. per qt.



KING OF THE GARDEN LIMA BEAN

BEETS

One Ounce of Seed Will Sow One Hundred Feet of Drill.

SELECT a deep, rich sandy loam, and manure with well decomposed compost or a good chemical fertilizer. Sow in drills, 14 to 16 inches apart, and cover 1 inch deep. When the young plants appear, thin to 4 or 5 inches apart. For early use, sow as soon as the ground can be worked in the spring; for autumn use, about the middle of May, and for winter use, during June or July, according to the variety—the long varieties requiring more time to mature than the round, early kinds.



G. & T. Co.'s Early Blood Turnip Beets

THIS is our Special Stock of Early Blood Turnip Beet, which we have been growing for a number of years, and which the market gardeners of Baltimore and other places prefer. It is of dark red color, handsome shape and early. **Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.**

DETROIT DARK RED TURNIP BEET.

THIS is one of the finest formed and handsomest colored Beets on the market. It is unsurpassed in the uniformity and beauty of the crop. It is exceedingly early, and produces more marketable specimens on the same acreage than any other variety.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c.

EDMAND'S RED TURNIP.

The most uniform of all Turnip Beets. It is of handsome round shape, good marketable size and deep blood color. It has a small top and may be planted close.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

SWISS CHARD.—Oz., 10c. Lb., 50c.



BROCCOLI

(German, Spargel Kohl.)

1 Ounce of Seed to 100 Yards of Row.

The Broccoli are closely allied to the Cauliflower family. They require similar cultivation and treatment to cauliflower.

EARLY PURPLE CAPE.—Large, compact. **Pkt., 10c. Oz., 35c.**

LARGE EARLY WHITE.—Head white, like cauliflower; the best. **Pkt., 10c. Oz., 35c.**

BRUSSELS SPROUTS.—A class of plants allied to the Cabbage family, producing a great number of small heads for sprouts on the main stem of the plant, which are used and prepared as greens. Plant in rich soil, in hills 2 feet apart each way. **Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 45c. Lb., \$1.60.**

ECLIPSE BEET.—This extra early Beet is remarkable for its fine quality and rapid growth; is of deep red color and handsome shape. As an early market sort it is unrivaled. It is to a large extent superseding the Egyptian, being earlier in development, more attractive in appearance, and of superior quality for the table.

Pkts., 5c. and 10c. ¼ lb., 20c. Lb., 50c.

BASSANO, or EXTRA EARLY TURNIP. Flesh white and rose; very sweet and tender.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. ½ lb., 20c. Lb., 40c.

EXTRA EARLY EGYPTIAN.—This is a flat Beet, very early and deep red color. Owing to the small top, it can be planted very close.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 35c.

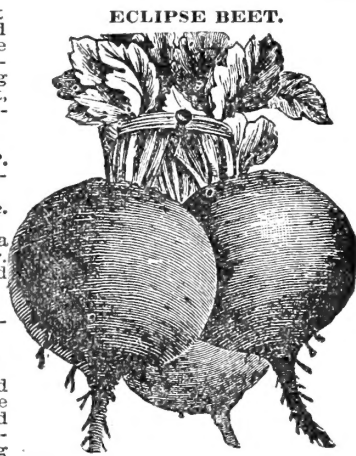
LARGE LONG BLOOD.—A large and desirable late variety of deep red color.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 30c.

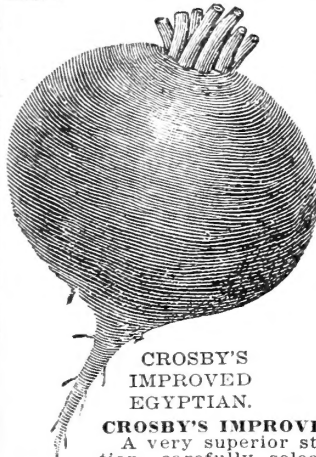
G. & T. CO.'S EARLY MARKET.

Its qualities are extra early, dark red color, fineness of shape and small top. One of the most attractive varieties grown, and is especially desirable for hotbeds on account of its small top and close-growing habit.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.



ECLIPSE BEET.



CROSBY'S
IMPROVED
EGYPTIAN.

CROSBY'S IMPROVED EGYPTIAN BEET.

A very superior strain of the well-known Egyptian, carefully selected, blood color, quick, rapid growth. The shape is very desirable, as shown in the accompanying photograph, being not quite so flat as the ordinary Egyptian, nor so round as the Eclipse. It may be sown outside as late as July. **Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.**

BEETS FOR STOCK

SOW 4 POUNDS TO THE ACRE.

STOCK BEETS grow larger than any other Beets, and hence require more room. They should be sown from April to June, in drills 2½ feet apart, and the plants thinned to 12 to 15 inches in the row. The attention of farmers to the growing of Beets for stock feeding has rapidly increased, but it should be grown more generally, and will show the results in the health and condition of the stock. It supplies good, rich food for cattle during the winter.

CHAMPION YELLOW INTERMEDIATE, OR GATE-POST MANGOLD.—One of the very finest Mangolds ever introduced, giving unbounded satisfaction wherever grown. With good cultivation will crop at the rate of 200 bushels per acre.

Pkt., 5c. ¼ lb., 10c. Lb., 25c. 5 lbs., \$1.00.

WHITE SUGAR BEET.—A large-growing sort, and used for feeding stock.

Pkt., 5c. ¼ lb., 10c. Lb., 25c. 5 lbs., \$1.00.

LONG RED MANGOLD WURZEL.

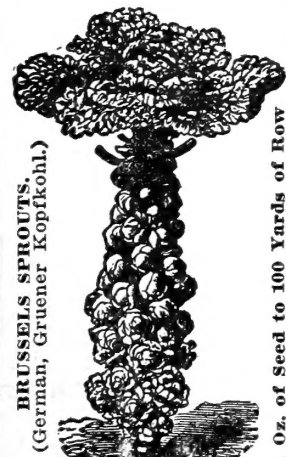
The well-known large, long variety grows well out of ground. Color light red. Very productive.

Pkt., 5c. ¼ lb., 10c. Lb., 25c. 5 lbs., \$1.00.

GOLDEN TANKARD MANGOLD.

The best type of Mangold—small top, smooth, rich skin, broad shoulders, very solid, fleshed, golden-stemmed, heavy producer.

Pkt., 5c. ¼ lb., 10c. Lb., 25c. 5 lbs., \$1.00.



BRUSSELS SPROUTS.
(German, Gruener Kopfkohl.)



Borecole

This is often called Broccoli by market gardeners, but belongs to the Kale family. Very spreading in habit and beautifully curled. Seed very scarce. **Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 50c. Lb., \$1.50.**

ONE OUNCE OF SEED
TO 100 YARDS OF ROW.

CABBAGE

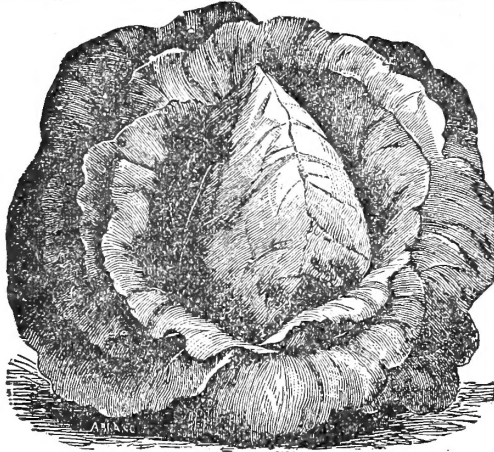
German, Kopfkohl.

CABBAGE must have good land. Plow deep and fertilize liberally, as it is a strong feeder. The early sorts bear planting from 18 inches to 2 feet in the rows; the larger varieties from 2 to 3 feet in the rows, with the rows from 3 to 3½ feet apart, according to variety of cabbage. It does not pay to buy cheap Cabbage Seed. Ours are American grown and from the best stock in the country. For early use, sow in a hotbed in February or March, and set out to a cold frame as soon as large enough. In April the plants may be set out in the rows. For late crop, sow in nursery bed in May or June, and transplant as soon as the plants are 5 or 6 inches high. The ground should be thoroughly cultivated every week until the plants meet in the rows.

KING OF EARLIES.—Our own introduction; American grown. An extra early variety, fully a week ahead of all other varieties in forming marketable heads; the heads are tall and slim and of rather small size, formed like a Wakefield. Habit, vigorous; short stem and proof against sun. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 40c. Lb., \$1.50.

EXTRA EARLY EXPRESS.—Heads are comparatively thicker and less pointed than Jersey Wakefield and slightly earlier. Head softer, but stands shipping better. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 40c. Lb., \$1.50.

EARLY WINNINGSTADT.—Head large, cone-shaped and solid. An old and popular sort. Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.



Early Dwarf Flat Dutch

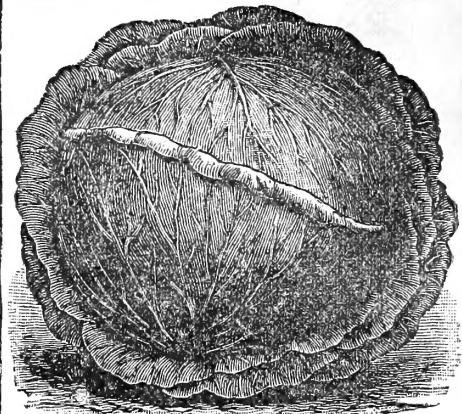
American Grown.

An old standard variety which stands the sun and produces fine, large heads, coming in soon after the Wakefield. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

HENDERSON'S EARLY SPRING

An extra early round-headed Cabbage of the early summer type. Pkt., 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

LARGE EARLY YORK.—American Grown.—One of the earliest. Forms a medium size, pointed head. Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.



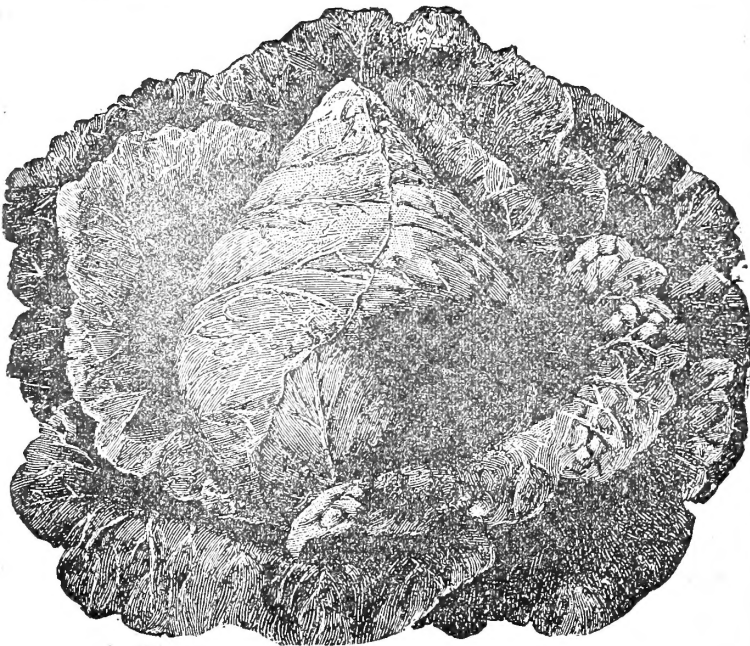
ALL-HEAD EARLY

American Grown.

This is the largest of all Cabbages, fully one-third larger than the Early Summer, therefore more profitable to the market gardener. It is the nearest approach to a thoroughbred cabbage of any variety, both in size and uniform development. As the All-Head comes in quicker than any of the other flat cabbages, it is consequently more tender. It is also valuable for a late or winter cabbage. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

SELECT EARLY JERSEY WAKEFIELD—American Grown.

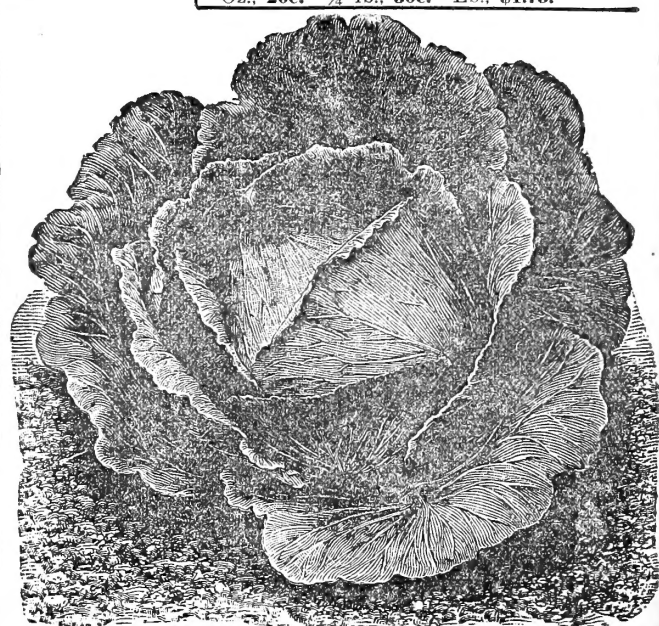
The very best early Cabbage, and grown more extensively by market gardeners than any other variety. It is early, the heads are pyramidal in shape, very large and solid, and having but few outside leaves the plants can be set close together. We secured our seed from a grower of the best Wakefield Cabbage in the country, and it is giving good results wherever it is used, so much so that our sales of this sort are rapidly increasing each year. The demand for this sort has brought on the market inferior stock at a low price; but when select stock such as we offer is used it cannot fail to give satisfaction. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.



LARGE, OR CHARLESTON WAKEFIELD

American Grown.

This is now a very popular market cabbage, fully meeting the demand for a cabbage having all the characteristics of the Jersey Wakefield, but larger. It is five to six days later than Early Jersey Wakefield. The heads are fully one-half larger and can be easily planted in rows two feet apart and twenty inches in rows. One great advantage is, it does not burst open when ripe, like many other early sorts, and consequently can be left standing on the ground a long while without injury until a favorable opportunity for cutting. No market or private gardener desiring a cabbage of this kind should fail to plant this valuable sort. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

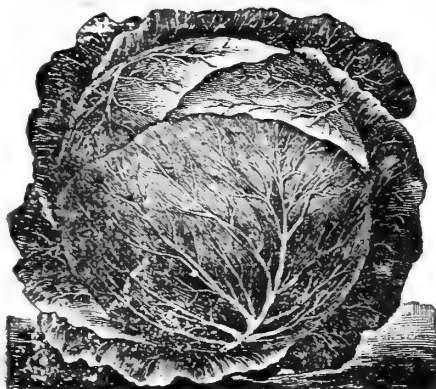


EARLY SUMMER CABBAGE—American Grown

One of the earliest of the summer varieties. Heads large and flat; short stemmed, few outside leaves, uniform in character, and about 10 days later than the Wakefield. It is very popular with the truckers. Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.

It is very compact in growth, and can be left standing on the ground a long while without injury until a favorable opportunity for cutting. No market or private gardener desiring a cabbage of this kind should fail to plant this valuable sort. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

CABBAGE—Continued

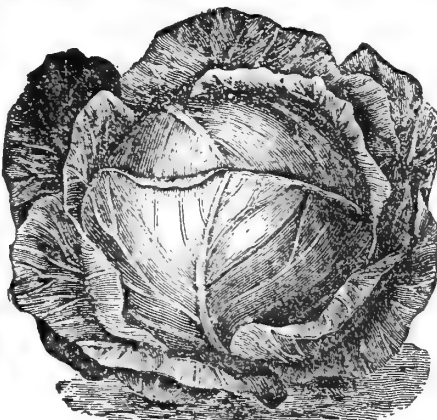


NEW EARLY CABBAGE.

NEW EARLY.—American grown. This is one of the finest large early cabbages grown. Forms solid, compact heads, and leaves grow close to the head, thus allowing many more cabbages to be grown on the acre than any other sort. One of its most striking features is its earliness. It heads so rapidly that the worms can't hurt it. **Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.**

LOUISVILLE DRUMHEAD.—American grown. This is the most popular intermediate or second early with market gardeners around Louisville and the Southwest. It comes off medium early, withstands heat to a remarkable extent, heads large, solid and uniform in size and color. We can recommend this sort very highly for the Southern and Middle States. **Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.**

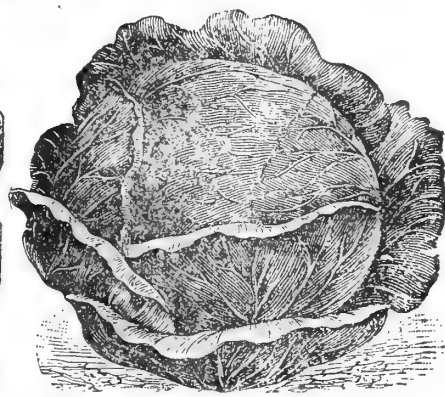
SUREHEAD.—American grown. This popular cabbage is rightfully named Surehead, as it never fails to make a fine, large, solid head, with few outer leaves. It is a strong, vigorous grower, and very uniform in size and color. Always brings the highest price in our markets. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.**



SUCCESSION CABBAGE.

A fine early variety, coming in a few days later than Early Summer, but it is immeasurably superior to that variety; it is nearly double the size, and is absolutely true to its type under all conditions. In addition to this, it has no tendency whatever to run to seed. It is one of the finest sorts in existence today; whether for medium early, main crop or late use, it has no superior. It is so finely bred and so true to type that in a field of twenty acres every head appears alike. We can recommend it either for the market gardener, trucker or private planter, as it is a perfect cabbage in every respect, not only being of the largest size, but of handsome color and of the finest quality. It is probably the safest variety for an amateur to plant, as it does well at all seasons, and one is almost sure of getting a crop, no matter when it is planted. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.**

ALL SEASONS.—American grown. This forms a fine, large head, of superior quality, nearly as early as the Early Summer. Suitable for planting at any season. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.**

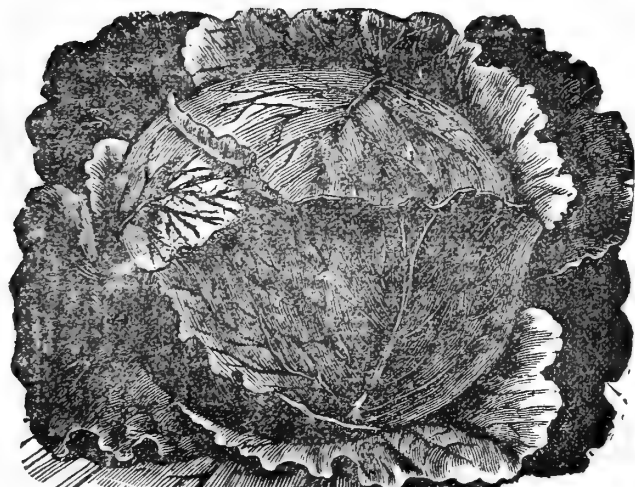


DANISH BALL HEAD CABBAGE.

DANISH BALL HEAD.—This most excellent variety of cabbage, coming from Denmark, has grown very rapidly into favor with both market and private gardeners. It is a large, round, solid heading, medium early variety; a very sure header, having few loose leaves, consequently can be planted very close together. Although a medium early, can also be grown for a fall and winter crop, being one of the best keepers. Very popular in Philadelphia, New York and Boston markets. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.**

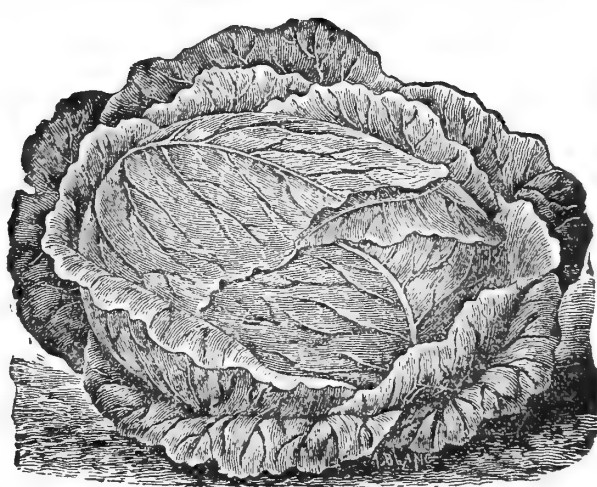
FOTTLER'S EARLY DRUMHEAD OR SHORT STEM BRUNSWICK CABBAGE.

In its improved type, this is a very fine summer or early fall variety. The plants are of dwarf, compact growth, the solid, flat heads resting on the soil, while the few outer leaves grow closely about the heads. The foliage is a light bluish green in color. The heads are very flat, quite thick through, uniformly "hard and solid," and considerably earlier than the ordinary Flat Dutch strains. Good both for intermediate and winter use. **Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.**



BOSS FLAT DUTCH—LATE CABBAGE.

BOSS FLAT DUTCH CABBAGE.—American grown. In again calling the attention of market gardeners and truckers to this magnificent Cabbage, we would say that it has fully met the claims we made for it upon its introduction. When we ask our customers how they like it their answer is "Splendid!" or "Elegant!" "Everything heads!" "You can scarcely find any that don't head!" The heads are large, hard, thick and flat, the leaves lapping across the center, making it the most desirable winter variety in cultivation. Try it and be convinced of its superior quality. **Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 50c. Lb., \$1.50.**



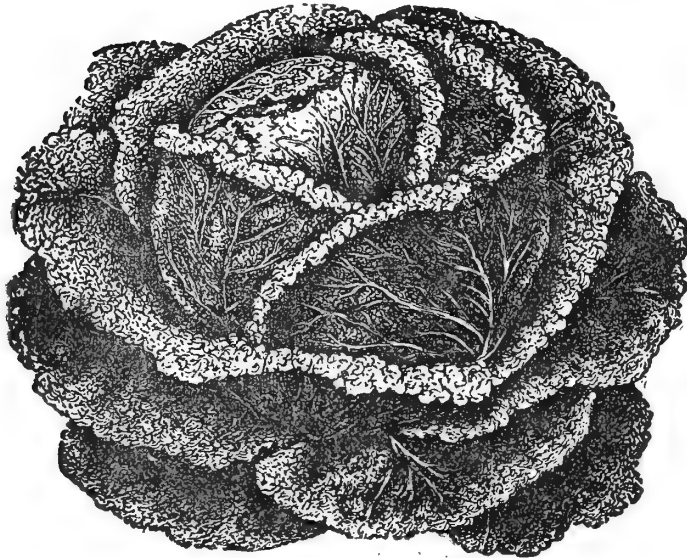
PREMIUM LARGE FLAT DUTCH—LATE CABBAGE.

PREMIUM LARGE LATE FLAT DUTCH CABBAGE.—American grown. Large and excellent for winter; very extensively grown. The head is broad, thick and flat, well covered in by leaves lapping across the center, outside leaves feathered to the base of the leaf stem.

Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.

SPECIAL PRICES TO GARDENERS AND TRUCKERS IN LARGE QUANTITIES.

LATE CABBAGES—Continued.



DRUMHEAD SAVOY

LARGE LATE AMERICAN DRUMHEAD (American Grown).—One of the largest, most solid and best keeping late varieties. This variety seldom fails to head, and is of good quality.

Packets, 5c. and 10c. Oz., 15c. $\frac{1}{4}$ lb., 40c. Lb., \$1.25.

WORLD-BEATER, or AUTUMN KING.—This is a very superior late cabbage. The large, broad heads are very thick through, slightly rounded at the top, fine grained and tender, has a short stalk, green color, and one of the best keepers we know, and is a rapid grower.

Packets, 5c. and 10c. Oz., 15c. $\frac{1}{4}$ lb., 50c. Lb., \$1.50.

RED DUTCH.—The head is round, large, solid and a deep red color, the best of the red cabbages.

Packets, 5c. and 10c. Oz., 20c. $\frac{1}{4}$ lb., 50c. Lb., \$1.50.

Perfection Drumhead Savoy.

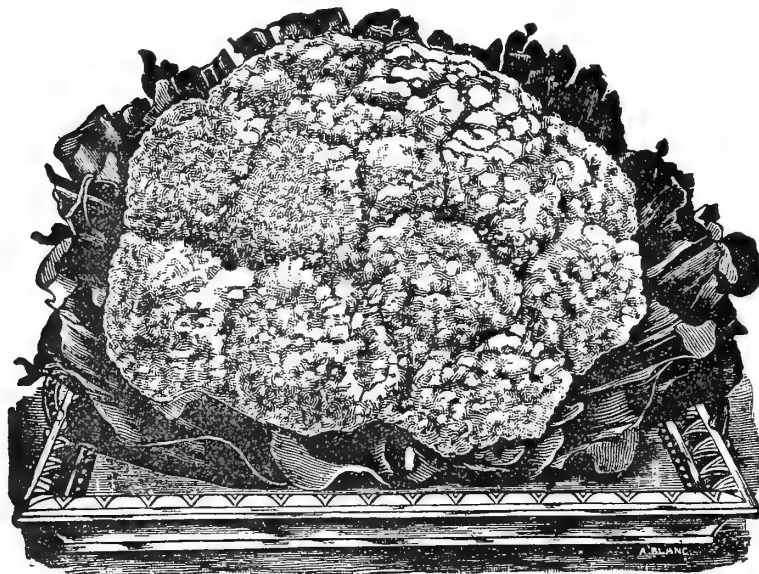
American Grown.

This is without any exception the finest stock of Savoy cabbage to be found anywhere. The heads are large and solid, the leaves beautifully curled, and in tenderness and flavor it is almost equal to cauliflower, while its keeping quality is first class. To say that our market gardeners are pleased with it is putting it mild; they are enthusiastic over it, as they find it so much superior to the old-time Savoy. It is specially adapted to private use, as when grown in the fall and allowed to be touched by frost it is one of the most delicious of all vegetables. Packets, 5c. and 10c. Oz., 15c. $\frac{1}{4}$ lb., 40c. Lb., \$1.25.

Georgia Collards. Called the Cabbage Collard on account of its close bunching growth. The plant produces center leaves generally perfectly white, though sometimes dashed with pink. It is a very delicate vegetable and of the finest quality.

Packets, 5c. and 10c. $\frac{1}{4}$ lb., 25c. Lb., 75c.

G. & T. Co.'s Large Gilt Edge Snowball Cauliflower



Is without exception one of the finest sorts now in cultivation. It is very early. Nearly every plant will, under proper cultivation, form a perfect snow-white head, and its close growing, compact habit enables the grower to plant one-third more on the same space of ground than other varieties. In fact, it is, and deserves to be, the standard with the market gardener and amateur.

Packets, 25c. and 50c. $\frac{1}{4}$ oz., 75c. Oz., \$2.50.
 $\frac{1}{4}$ lb., \$10.00.

EXTRA EARLY SNOWBALL.—Our stock of this well-known variety is unexcelled. It is one of the best sorts for open ground or forcing under glass.

Packets, 25c. and 50c. $\frac{1}{4}$ oz., 75c. Oz., \$2.50.

G. & T. CO.'S "DROUTH-RESISTING."—Produces large white solid heads, maturing about a week later than our large Gilt Edge Snowball. The best for hot, dry weather.

Packets, 25c. and 50c. $\frac{1}{4}$ oz., 75c. Oz., \$2.50.
 $\frac{1}{4}$ lb., \$9.00.

G. & T. CO.'S SELECT EARLY DWARF ERFURT.—Long the standard of highest excellence, and still holding its own with a great many people.

Packets, 25c. and 50c. $\frac{1}{4}$ oz., 75c. Oz., \$2.25.

EARLY PARIS.—An excellent sort for early or late use. Packet, 5c. and 10c. Oz., 50c.

DWARF ERFURT.—An inexpensive sort, but will give good results under favorable conditions. Packets, 5c. and 10c. $\frac{1}{2}$ oz., 50c. Oz., \$1.00.

One ounce of seed will produce 2,000 plants.

Culture.—The same as for Cabbage, except that extra manure and plenty of water will pay upon Cauliflower. If the soil be dry, water frequently, and if the plants could have a heavy mulch of hay from drought. The early kinds should be strong

or straw, it would keep the soil moist, and the plants would not suffer enough to plant out not later than the middle of April; the late kinds may be planted out same time as for Cabbage.



CORN SALAD.

Three Ounces of Seed to 100 Feet of Row.

A favorite salad plant, and very hardy. Sow in August or September, and protect with leaves during the winter; it can be gathered in the spring very early. Sown in April, it is soon ready for use. The leaves are sometimes boiled and served as spinach.

Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 15c. Lb., 40c. 5 lbs., \$1.75.

Cress, or Pepper Grass.

Used as a small salad. Sow very thickly in shallow drills, on a smooth surface, at short intervals throughout the season.

CURLED—Pkt., 5c. Oz., 10c. $\frac{1}{4}$ lb., 20c. Lb., 50c.

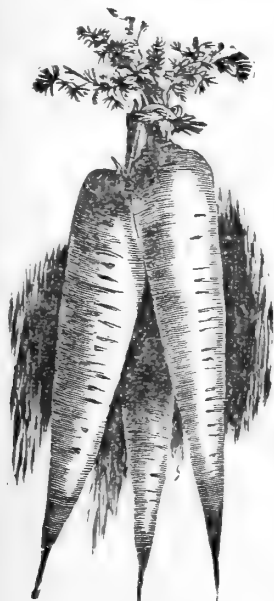
WATER CRESS.—Water Cress may be grown along the margin of running streams, ditches or ponds, and has a ready sale in the hotels and markets.

Pkts., 5c. and 10c. Oz., 30c. $\frac{1}{4}$ lb., \$1.00. Lb., \$3.00.

G. & T. CO.'S CARROTS

1 OZ. OF SEED TO
 100 FEET OF ROW.

CARROTS thrive best in rather a light, rich loam. The ground should be well manured with fine, well-rotted or composted manure, and be thoroughly worked quite deep. Sow from middle of April to middle of May, in rows 14 inches apart, and thin the plants to 5 or 6 inches in the row. For late crops sow in June or July. An important point is to tread the rows firmly after sowing. For field culture, Carrots should be sown in drills 3 to 3½ feet apart, so as to cultivate with horse.



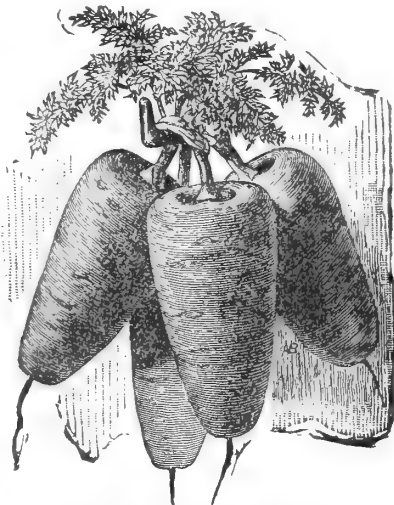
IMPROVED LONG ORANGE.



DANVERS

A decided acquisition of the half-long type, broad-shouldered, cylindrical, admirable in color, fixed in habit, a wonderful producer. It is a first-class Carrot for all soils. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 70c.

DANVERS.



CHANTENAY

Very productive; has an extra large shoulder, is easily dug, and is in every way desirable. It is very smooth, fine in texture, and of a beautiful, rich orange color. Well worthy of a thorough trial. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 70c.

IMPROVED LONG ORANGE

Deep orange color, long, smooth, fine for either garden or field culture. All who have cattle should raise a surplus of this Carrot for feeding milch cows during winter. It increases the flow of milk and imparts to the butter a delicious flavor and a rich golden color. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 70c.

CELERY German, Celerie

1 Oz. Will Produce 2000 Plants.
PARIS GOLDEN CELERY.
 (French Stock.)

This cannot be too highly recommended, as after being thoroughly tested it has fulfilled all that has been claimed for it. It is decidedly the very best and most profitable Celery in cultivation; it is very early and entirely self-blanching. The beautiful appearance of the plant, its close habit, compact growth, straight, vigorous stalks, solid, crisp, brittle ribs, fine quality and delicious flavor commend it to all lovers of Celery. No variety can surpass, if, indeed, equal the Paris Golden Self-Blanching in its striking appearance and delicious flavor. Our stock of this variety has been giving the market gardeners the very best results for several years.

Pkts., 5c. and 10c. Oz., 35c.
 ¼ lb., \$1.00. Lb., \$3.50.

GOLDEN SELF-BLANCHING CELERY. (American Stock.)

This is a selection from the French stock grown here, and is a favorite sort with market gardeners, being very largely used.

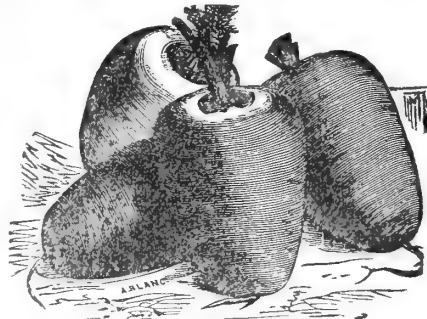
Pkts., 5c. and 10c. Oz., 30c.
 ¼ lb., 90c. Lb., \$3.00.

ROSE-RIBBED PARIS SELF-BLANCHING.

This is a sport of the Golden Self-Blanching, identical in habit, growth, early maturity, and as easily blanched. The stalks, however, are naturally quite heavily tinted with red, so that when blanched they show a distinct pink line in the ribs, contrasting finely with the rich golden yellow.

Pkts., 5c. and 10c. Oz., 30c.
 ¼ lb., 75c. Lb., \$2.50.

PARIS GOLDEN CELERY.
IMPROVED BOSTON MARKET.—This is a decided improvement on the old Boston Market, being earlier, larger in size and of more vigorous growth.
 Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.



GUERANDE, OR OX HEART.

A new French variety, intermediate in length, of fine quality; excellent table sort. The shape is nearly oval, and the color and quality all that can be desired. No market gardener should be without it.

Pkts., 5c. and 10c. ¼ lb., 20c. Lb., 70c.

EARLY SCARLET HORN.

Blunt-rooted, early, good. Favorite sort for early crop.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 70c.

WHITE SOLID.

A large standard sort. One of the large growing sorts.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.

NEW ROSE.

In England the Pink or Red Celeries are much more largely used than the white varieties, and we wonder they are not more grown in this country. They possess many advantages over the white, being hardier, more solid and better keepers.

Pkt., 10c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.

CELERY SEED FOR FLAVORING.

This seed is used for flavoring pickles, soups, etc.
 Pkt., 5c. ¼ lb., 10c. ½ lb., 15c. Lb., 25c.

CELERY. German, Celerie.

CONTINUED.

1 Oz. Will Produce 2000 Plants.

PLANT SEED in hot-bed or very early in open ground. Transplant 4 inches apart when 3 inches high, in rich soil, finely pulverized; water and protect until well rooted. In June or July transplant into rows 3 to 4 feet apart, either on surface or well-manured trenches a foot in depth, half filled with well-rotted manure. Set the plants from 6 to 8 inches apart. To blanch, draw earth around the plants from time to time, taking care not to cover the top of the centre shoots.

WINTER QUEEN CELERY.

It is, without doubt, the most valuable variety of Celery for winter and spring use ever introduced. It is also much stouter, thicker and heavier, with double the amount of heart of any known Celery. The plant is beautiful in appearance, of close habit and compact growth, and blanches to a beautiful cream white. Ribs perfectly solid, crisp and of delicious nutty flavor.

Pkt., 10c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.

PINK PLUME.

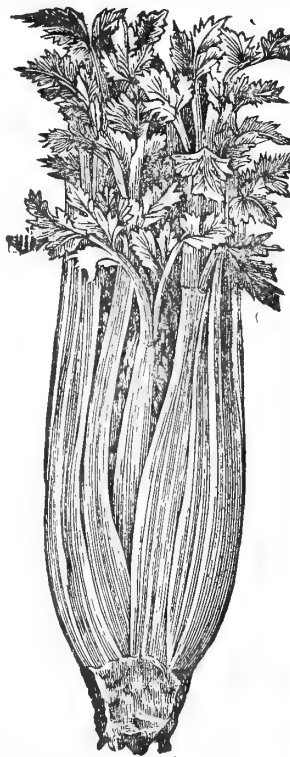
This is identical with the White Plume, but with the added merit of the stalks being exquisitely suffused with pink, and possessing the crispness, rich, nutty flavor and long-keeping qualities for which red Celeries are noted.

Pkt., 10c.
Oz., 20c.
1-4 Lb., 50c.

PERLE LE GRAND.

The new Perle le Grand has a beautiful, full golden heart, and rich, nutty flavor. On the market stall it is extremely showy and salable, a single plant making a good-sized bunch and surpassing all other sorts in weight. It is not only a good early Celery, being among the first fit to use, but as a winter keeper, remaining, when properly trenched, in perfect condition away into the spring.

Pkt., 10c. Oz., 15c. 1-4 lb., 40c. Lb., \$1.25.



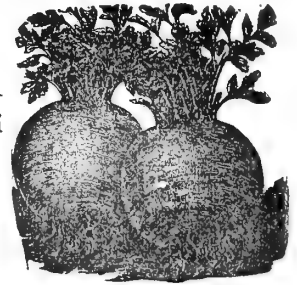
CELERIAC.

OR TURNIP ROOTED CELERY.

NEW APPLE SHAPE.

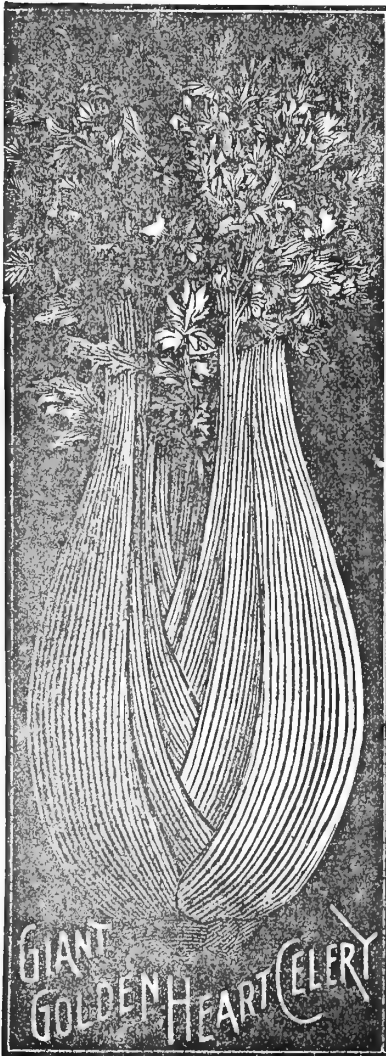
Small foliage, large, round, and smooth.

Pkt., 5c. and 10c.
Oz., 15c.
1-4 Lb., 40c.
Lb., \$1.50.



LARGE SMOOTH PRAGUE

LARGE SMOOTH PRAGUE.
The largest, smoothest and best of the Celeriacs. Pkts., 5c. and 10c.
Oz., 15c. ¼ lb., 40c. Lb., \$1.25.

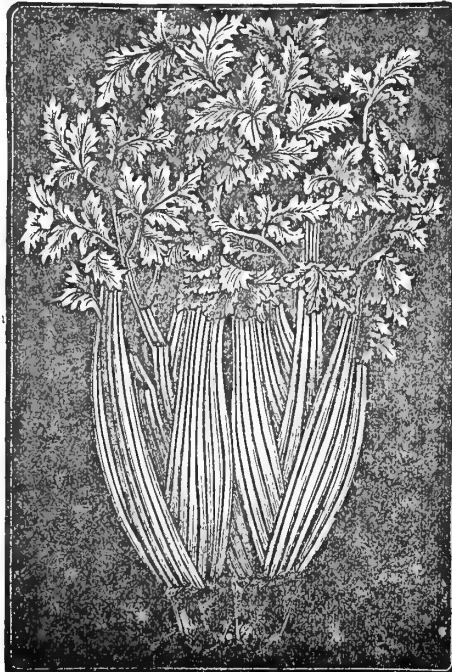


GIANT GOLDEN HEART CELERY

GOLDEN HEART, OR GOLDEN DWARF CELERY.

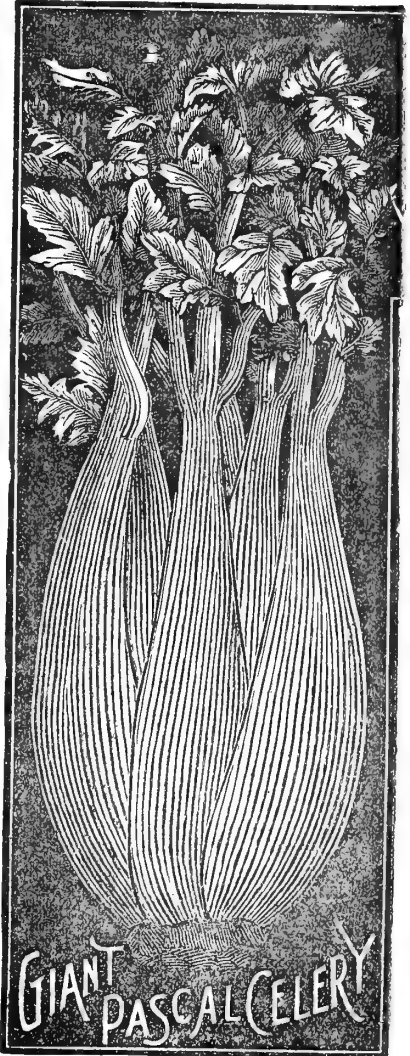
THIS old standard variety still holds a high place in the estimation of market gardeners, and is largely used, always giving satisfaction. A showy sort, solid, of fine flavor and a good keeper.

Pkts., 5c. and 10c.
Oz., 15c. ¼ lb., 40c. Lb., \$1.25.



WHITE PLUME.

AN EARLY, handsome, self-bleaching variety, growing in popularity every year. Like the Golden Self-Blanching, it requires very little earthing up to blanch it, and as a Celery for fall and early winter use it is unsurpassed. Pkts., 5c. and 10c.
Oz., 20c. ¼ lb., 60c. Lb., \$1.75.



GIANT PASCAL CELERY

A SELECTION from the well-known Self-Blanching Celery. It partakes of the best qualities of that variety, is somewhat larger, and an excellent keeper. It is of fine, nutty flavor, being entirely free from any bitter taste. It grows about 2 feet high. The stalks are very broad, thick and crisp; the width and thickness of these are distinctive features of this variety.

Pkts., 5c. and 10c.
Oz., 15c. ¼ lb., 50c. Lb., \$1.50.

CAUTION. Sweet Corn in bulk, even after being thoroughly cured, will often gather moisture and spoil, particularly if it has been exposed to a low temperature. To prevent this it should be taken out of the bag as soon as received and spread in a dry place.

SWEET OR SUGAR CORN

FOR TABLE USE

German, Welschkorn

WHEN CORN IS WANTED BY MAIL, ADD 8 CENTS PER PINT TO PAY POSTAGE.

CULTURE.—Sugar Corn may be planted in rows 3 to 4 feet apart, and the seeds placed about 8 inches apart in the rows, or planted in hills 3 to 4 feet apart each way, according to variety grown or richness of soil. Do not let more than three plants remain in each hill. It can be planted in this vicinity from first of May to last of July for succession of crop. By planting every two weeks a family may have good corn throughout the whole season.

FIRST EARLY VARIETIES

EXTRA EARLY BALTIMORE.

The hardest and earliest variety for table use; it can be planted earlier than any other, but is not a sweet corn; white indented grains and short ears. **Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$4.00.**

G. & T. CO.'S NEW 60-DAY CORN.—The largest extra early corn grown. As early as Extra Early Adams, but grows larger ears. **Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$4.00.**

EXTRA EARLY ADAMS.—Extremely hardy and early; one of the best for early planting. **Pt., 15c. Qt., 25c. Pk., \$1.00. Bus., \$3.75.**

EARLY ADAMS.—A favorite in the South. **Pt., 15c. Qt., 25c. Pk., 90c. Bus., \$3.50.**

EARLY BURLINGTON HYBRID.—Not a true sugar corn, but a hybrid or mixture between the sugar corn and the Adams Early, being as early as Adams, but having a larger ear. It closely resembles the sugar corn. **Pt., 15c. Qt., 25c. Pk., 90c. Bus., \$3.50.**

NINETY-DAY CORN (Red Cob).—This is an elegant corn for truckers and market gardeners, as it is a good seller as green corn, and if not used as green corn makes a good variety for feeding purposes. It may be planted for early crop and at intervals until the middle of July. Many truckers use it for their late planting, as it produces a very sure crop. **Qt., 15c. 2 qts., 25c. 4 qts., 40c. Peck, 60c. Bus., \$1.75.**

MEDIUM EARLY VARIETIES

Sweet or Sugar.

NEW GOLDEN BANTAM SUGAR CORN.—The earliest and best of sugar corns. It is of golden color and delicious flavor, with the sweetness of honey; can be planted earlier than the other varieties of true sweet corn, as it is very hardy. The stalks are dwarf in habit, growing about four feet high, producing two or three good ears five to six inches long, well set from the ground. **Pt., 15c. Qt., 30c. Pk., \$1.50.**

PREMO.—The best early sweet corn on the market. A genuine sweet corn as early as the Adams Extra Early, and larger than any other early variety. The quality is the best, ears measuring 7 to 9 inches long, being well filled to the end; generally bearing two ears to the stalk. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$5.00.**

CORY.—An early variety red cob. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.00.**

FIRST OF ALL.—A selection from the Cory, the ears about the same size as the Cory, lighter in color and earlier. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.25.**

WHITE CORY.—An early variety, with good-sized ears and large kernels. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.00.**

STABLER'S EARLY.—Of larger size than usual for the early kinds. It is remarkable for the fine flavor and sweetness, and is a desirable gardeners' and canning variety. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.00.**

CROSBY'S EXTRA EARLY.—An early market variety, very productive; ears rather short and rich, sugary flavor. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.00.**

EARLY MINNESOTA SUGAR.—One of the first early among sugar corn. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.00.**

BLACK MEXICAN SUGAR.—The black corn is especially rich in sugary qualities. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.00.**

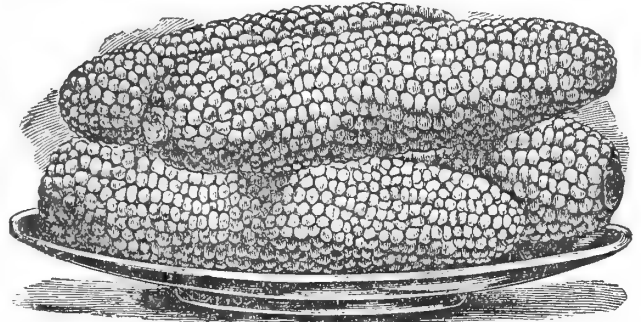
MAIN CROP VARIETIES



TRUCKERS' EARLY CORN.

TRUCKERS' EARLY SUGAR CORN.—This is the most desirable variety of sugar corn for truckers and gardeners to plant early. As its many excellent qualities are becoming generally known, it has come to be one of the standard sorts. It is ten days earlier than Evergreen, very productive, growing two to four ears to the stalk. The ears set low, are large and well filled, the grain long and narrow, similar to Evergreen, but smaller. It is one of the most productive varieties in cultivation. **Pt., 15c. Qt., 30c. Pk., \$1.00. Bus., \$3.75.**

MAIN CROP VARIETIES.—Continued.



COUNTRY GENTLEMAN.

COUNTRY GENTLEMAN CORN.—This is the sweetest and most deliciously flavored of all sugar corn. It is the finest variety for the table, and will delight the most fastidious epicure. It produces three to four ears to the stalk, and retains its greenness longer than other sorts. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.00.**

HICKOX.—A very handsome and excellent variety of sugar corn; large, white grain and sweet. **Pt., 15c. Qt., 30c. Pk., \$1.00. Bus., \$3.75.**

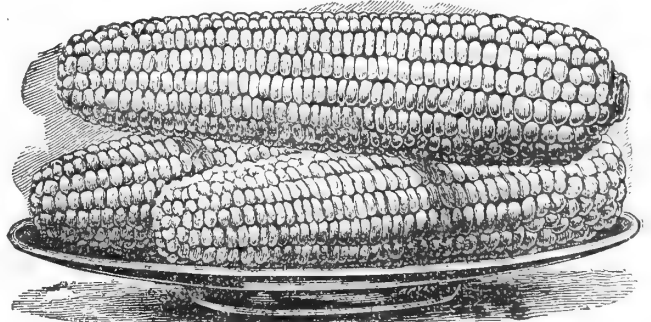
IMPROVED NE PLUS ULTRA.—Early, good-sized ears and deep grain; very productive, some stalks yielding four ears and an average crop running as high as three ears to the stalk. **Pt., 15c. Qt., 30c. Pk., \$1.25. Bus., \$4.00.**

LATE MAMMOTH.—The largest variety grown; very fine for market purposes. **Pt., 15c. Qt., 30c. Pk., \$1.00. Bus., \$3.75.**

EGYPTIAN, OR WASHINGTON MARKET.—A large variety, somewhat resembling the Evergreen; flavor peculiarly rich and sweet, and of superior quality; fine for market. **Pt., 15c. Qt., 30c. Pk., \$1.00. Bus., \$4.00.**

ZIGZAG EVERGREEN.—This is one of the sweetest and best late sweet corn, not even excepting the celebrated Country Gentleman and Shoe Peg. The ears resemble Stowell's Evergreen in size and shape, except that the kernels are placed irregularly or zigzag upon the cob, which is always an indication of great sweetness in any variety of sugar corn. **Pt., 15c. Qt., 30c. Pk., \$1.00. Bus., \$4.00.**

KENDALL'S EARLY GIANT.—The largest early sweet corn known, and is very productive. **Pt., 15c. Qt., 30c. Pk., \$1.00. Bus., \$3.75.**



STOWELL'S EVERGREEN.

STOWELL'S EVERGREEN.—So well known that it scarcely needs description. Excellent; keeps green till cold weather; ears large; one of the best. **Pt., 15c. Qt., 30c. Pk., \$1.00. Bus., \$3.75.**

EARLY MAMMOTH.—A splendid market sort, producing large, handsome ears; grain large, white and sweet; fills out well at the end. **Pt., 15c. Qt., 30c. Pk., \$1.00. Bus., \$3.75.**

SUGAR CORN.—For fodder. Write for prices.

1 Oz. Will Plant 50 Hills.
2 Lbs. Will Plant an Acre.

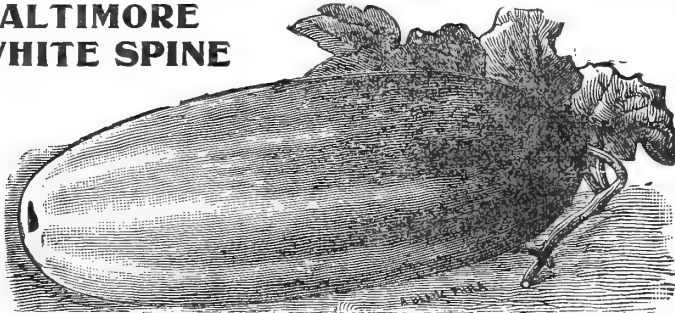
CUCUMBER German, Gurke

CULTURE

Prices Subject to Change
Without Notice.

For very early Cucumbers sow the first of April in a hotbed upon pieces of sod (grass side down), so that they can be readily transplanted to the open ground in rich soil when danger of frost is over, or protect by hand-glasses. The vines require a warm location for early Cucumbers. Plant after the ground has become warm in hills 4 feet apart for the smaller varieties, and 5 feet for the larger sort. For pickling, sow from middle of June to last of July. Manure with ashes, fertilizer or some well-rotted compost, working the manure just under the surface. Sprinkle the vines with slug-shot, plaster of air-slaked lime, to protect from bugs. The Cucumbers should be gathered when large enough for use, whether required or not; if left to ripen, it destroys their productiveness.

BALTIMORE WHITE SPINE

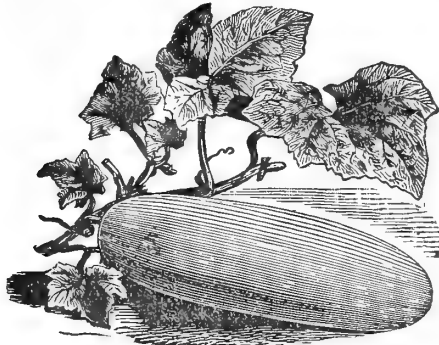


This is the best Cucumber for early planting, because it will retain its green color longer than any other sort. It is of good size and shape, and the popular variety with truckers around Baltimore and Norfolk, as well as the growers from Virginia to Florida. Pkt., 5c. Oz., 10c. ¼ lb., 35c. Lb., \$1.25.

EXTRA EARLY WHITE SPINE.—A strain of White Spine which has been improved through careful selection, with a view to use for forcing in hothouses and frames; also elegant for field culture. Our stock produces handsome, dark-colored fruits, which retain their color longer than other sorts. Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., \$1.00.

ARLINGTON WHITE SPINE.—A favorite extra early variety, of desirable size, handsome shape, dark green color, holding its color longer than most others. Good shipper and sells well. Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., \$1.00.

EARLY GREEN PROLIFIC.—A very productive variety, having fruits of good length and handsome form. Desirable for producing pickles of medium size and of fine quality when sliced for the table. Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., \$1.00.



WHITE WONDER

The White Wonder surpasses the White Pearl both in handsome appearance and fine quality, while its strong, vigorous, extremely healthy habit of growth enables the vines to produce a large crop of perfect fruit even under adverse conditions. Its strong constitution is exceptional. The Cucumbers are thickly set throughout the length of the vine, and are remarkably uniform in color, shape and size. Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., \$1.00.

CHICAGO PICKLING

Very Popular with Chicago Market Gardeners, and Extensively Grown in that Vicinity.

Fruit medium length, pointed at each end, with very large and prominent spines; color deep green. Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., \$1.00.

GHERKIN, OR BURR

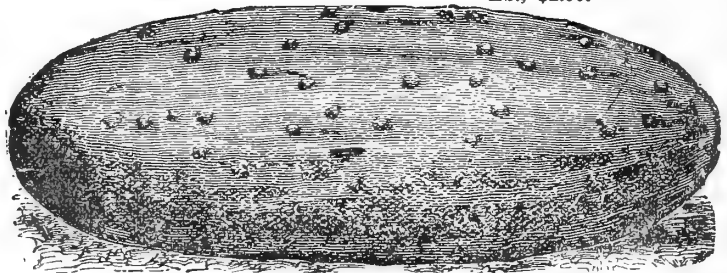
Used for Pickles Only.

Pkt., 5c. Oz., 20c. ¼ lb., 50c. Lb., \$2.00.



IMPROVED LONG GREEN

Has long been a favorite with growers; dark green, firm and crisp. Superior for pickles and for market. Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., \$1.00.
LONG GREEN TURKEY.—A very showy and excellent sort. Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., \$1.00.



JERSEY PICKLING.

This is the most popular sort with the market gardeners around Baltimore and Philadelphia for pickling. Said to green better than any other variety. Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., \$1.00.



CUMBERLAND

A new and distinct variety, said to have originated from crossing the Parisian Pickling and the Early White Spine. It certainly has the good qualities of each of these sorts. The fruits are large, symmetrical, dark green, covered with innumerable small white spines, and are of prime quality for slicing. The vine is vigorous, wonderfully prolific, and continues in bearing much longer than most sorts. Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., \$1.00.

CUCUMBER

CONTINUED.



EVER-BEARING CUCUMBER

This variety is unique, and will prove valuable both for the table and for pickling. Is of small size, very early, enormously productive, and extremely valuable as a green pickler. The peculiar merit of this new Cucumber is that the vines continue to flower and produce fruit until killed by frost, whether the ripe Cucumbers are picked off or not, in which respect it differs from all other sorts in cultivation.

Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., \$1.00.

Cool and Crisp

This is the earliest and one of the most prolific pickling Cucumbers. The Cucumbers are straight, long, even and slim and of a dark color; it is very tender and crisp.

Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., \$1.00.

Early Cluster

A short, prickly variety, bearing in clusters near the root. A good bearer.

Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., \$1.00.

Japanese Climbing Cucumber

It bears abundantly throughout the season, while the climbing habit enables the hanging fruit to grow perfectly straight, from 12 to 16 inches in length; the Cucumbers are thick, tender and of delicate flavor; flesh white, skin dark green, turning to brown, and netted when ripe.

Pkt., 10c. Oz., 15c. ¼ lb., 40c.

English Forcing Cucumber

Should be grown in hotbeds where the temperature does not fall below 65 degrees at night.

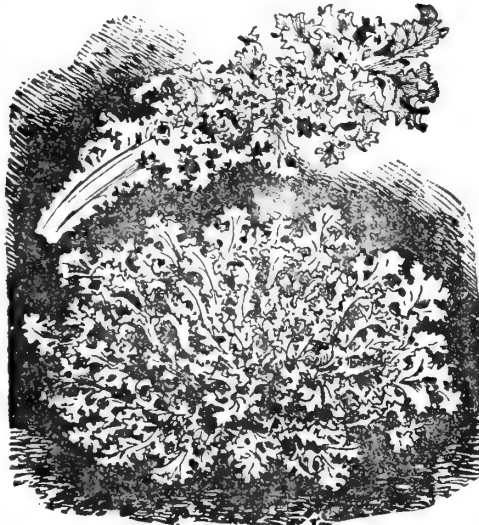
TELEGRAPH is the best. 25c. Packet.

BALTIMORE



EGG PLANT

Green Curled Endive



GREEN CURLED ENDIVE.

GREEN CURLED.—The best sort in use. Useful as a salad, and also used for garnishing.

Pkt., 5c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.

German, Endibien

IS ONE OF THE BEST SALADS FOR FALL AND WINTER USE. One Ounce of Seed to 150 Feet of Row.

For early use, sow as soon as the ground can be worked in the spring, in drills fifteen inches apart, and thin plants to six or eight inches in the row. To blanch the leaves, gather them carefully together when perfectly dry and tie them with matting or soft fibrous material. Another method is to invert flower pots over the plant. The leaves are very highly esteemed for use as salads.

German, EGG PLANT Eierpflanze

CULTURE.—Sow the seed in hotbeds early in March. When three inches high, pot the young plants, using small pots, and plunge them in the same bed, so that the plants may become stocky. They can be planted out, from the pots, when the season becomes sufficiently warm, in May or June, or they can be transplanted into a second bed to make them strong, until the weather is warm enough to transplant, about three feet apart each way, in thoroughly-worked and well-enriched soil. Draw the earth up to the stems when about a foot high. Egg Plant Seed will not vegetate freely without a strong, uniform heat, and if the plants get the least chilled in the earlier stages of growth they seldom recover. Therefore repeated sowings are sometimes necessary. Care should be observed in cutting the fruit, so as not to disturb the roots of the plants. One ounce will produce about 1000 plants.

BALTIMORE EGG PLANT.—This is decidedly the best and most profitable Egg Plant in cultivation. It is large, thornless, of beautiful shape and handsome purple color. We have never seen finer specimens of Egg Plant than those grown from our seed. When inspecting the field of Egg Plants growing for seed we were surprised at the regular size and uniform, handsome color of the fruit all over the field.

Pkt., 10c. Oz., 30c. ¼ lb., \$1.00. Lb., \$3.50.

BLACK BEAUTY EGG PLANT.—The earliest of all large fruited egg plants, and produces fruit quite as large as the NEW YORK PURPLE in 10 days' less time. The fruit is symmetrical in shape, of uniform size, of a dark rich purple color, which does not fade or change to lighter color at blossom end like some other varieties. Just the variety for the market gardener and trucker for early spring trade.

Pkt., 10c. Oz., 35c. ¼ lb., \$1.25. Lb., \$3.75.

NEW YORK IMPROVED LARGE PURPLE EGG PLANT.—This market garden variety has plants of strong growth and is very productive, producing plants of large size and fruits of smooth, deep purple color until frost.

Pkts., 5c. and 10c. Oz., 39c. ¼ lb., 90c. Lb., \$3.25.

1 Oz. of Seed Will Sow a Drill of About 200 Feet.

KALE

German,
Blatter-Kohl

The Kales are more hardy than Cabbage, and make excellent greens for winter and spring use, and are improved by frost. For early spring use, sow broadcast in September, and protect during winter. It must also be sown in April or May for later use.

DWARF GREEN GERMAN KALE.—This variety sow in September broadcast, and gather in early spring like spinach. It may also be sown early in the spring for later use.

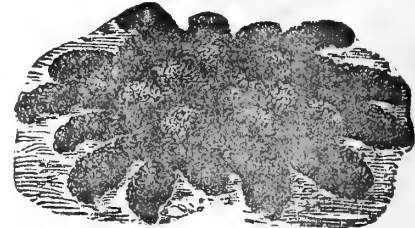
NORFOLK.—A variety used by the truckers of Norfolk for shipment North. Light green color and leaves much curled.

Packet 5c.
Ounce 10c.
½ lb. 20c.
Pound 60c.

EXTRA CURLED NEW AMERICAN KALE.

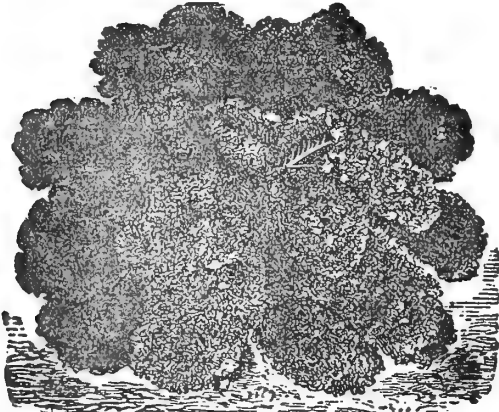
This is an extra curled, long-standing variety of a beautiful green color; stands the winter well, and will stand longer in the spring before going to seed than any other variety.

Pkt., 5c. ¼ lb., 15c. Lb., 45c.



DWARF GREEN GERMAN KALE.

NEW IMPERIAL CURLED LONG-STANDING KALE.—Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 35c.



EXTRA CURLED NEW AMERICAN KALE.



KOHLRABI

1 OZ. OF SEED TO 100 YARDS OF ROW.

WHITE VIENNA

BULB LIGHT GREEN.
FLESH WHITE.
VERY RAPID IN GROWTH.
EARLY MATURITY.
FINE IN TEXTURE, and
SYMMETRICAL IN FORM.
SUPERIOR.

Pkts., 5c. and 10c. Oz., 20c. Lb., \$1.50. ¼ lb., 50c.

IMPROVED KOHLRABI.—Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. ½ lb., 70c. Lb., \$1.25.

LEEK German,
Lauch

1 OZ. OF SEED TO 150 FEET OF ROW.

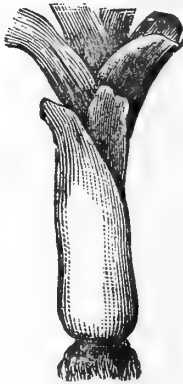
Select good Onion soil, manure liberally, plant in April in drills 6 to 8 inches deep, and 18 inches apart, and thin to 9 inches apart in the drill. Gradually draw the earth around the plants until the drills are filled level with the surface. Draw for use in October. To be used in soups or boiled as Asparagus.

EXTRA LARGE MAMMOTH.—A large and strong plant; hardy. The best variety for general culture.

Pkt., 5c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

MUSSELBURGH.—Oz., 15c. ¼ lb., 40c. Lb., \$1.25.

LARGE ROUEN.—Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 30c. Lb., \$1.00.



LETTUCE

German, Lattich

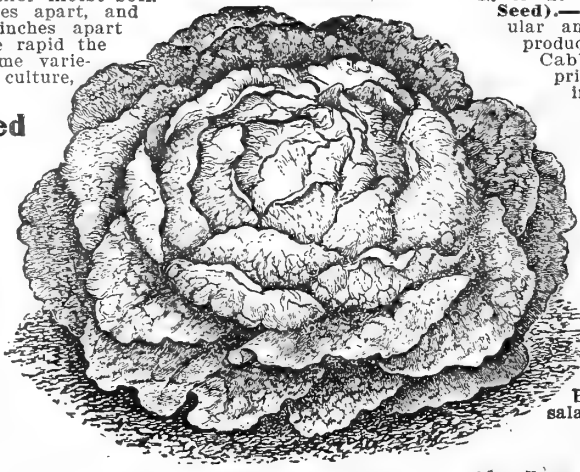
Lettuce requires a rich and rather moist soil. The rows should be about 12 inches apart, and the plants thinned to 10 or 12 inches apart for the leading varieties. The more rapid the growth the better the quality. Some varieties are peculiarly adapted for early culture, others for summer growth.

G. & T. Co.'s White Seed Summer Lettuce

The Best Summer Lettuce Ever Introduced.

This variety, introduced by us recently, has exceeded our expectation. Those who purchased it were delighted with their crops, and came back for more seed. This Lettuce will stand the summer heat better than most sorts, and makes magnificent heads. We expect this sort to grow in favor wherever known. It has a beautiful green color; head solid; light leaves; nicely crinkled; very tender and of most excellent flavor.

Pkt., 5c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.



G. & T. CO.'S SUMMER LETTUCE (Black Seed).—This lettuce is becoming very popular among gardeners for summer use. It produces a splendid large, solid head, of the Cabbage type, remaining a long time in prime condition without going to seed; in fact, it is often necessary for the seed growers to slit open the head in order to allow the seed stalk a chance to develop. It is of a light green color, fine quality, crisp, tender, and nearly every plant will make a fine, solid head in the hottest weather, when other varieties refuse even to grow.

Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.

EARLY WHITE CABBAGE, OR BUTTER.—A broad-leaved, vigorous-heading sort; white, showy and desirable. Pkt., 5c. Oz., 15c. ¼ lb., 30c. Lb., \$1.00.

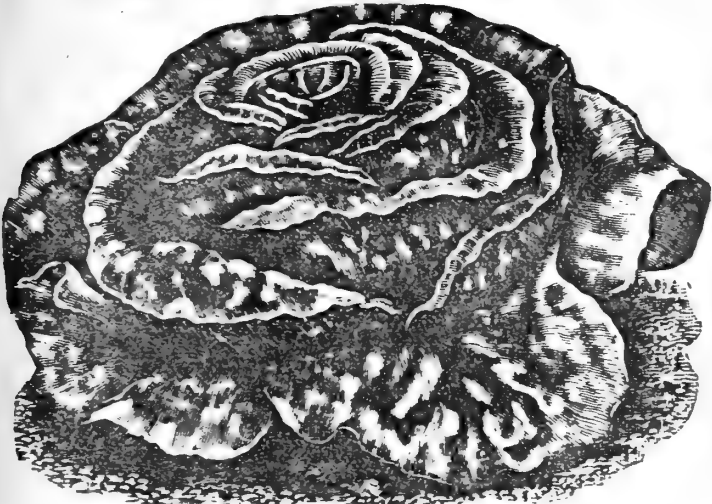
EARLY CURLED SIMPSON.—Black seed. Very early; excellent for salads; forms a compact mass of leaves.

Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 30c. Lb., \$1.00.

TENNIS BALL.—Black seed. A favorite forcing variety; a very hard head. Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 30c. Lb., \$1.00.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

LETTUCE—Continued



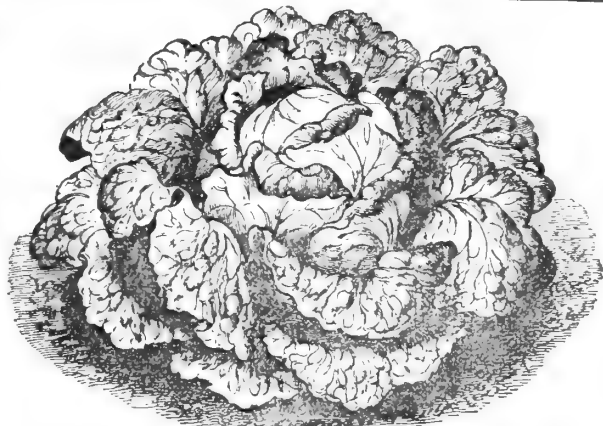
BALTIMORE CABBAGE LETTUCE.

BALTIMORE CABBAGE LETTUCE

G. & T. CO.'S TRUE STOCK.

Large Heads, Beautiful Heads, Solid Heads; Stands Heat Well. Best of all for FALL PLANTING.

THIS new Lettuce, which we introduced a few years ago, and claimed to be one of the best ever put on the market, and which produced such a sensation among the large growers who tried it, still holds a high place among lettuce. As soon as the growers discovered its merits they came for more seed, and recommended it to all their friends; these, in turn, were delighted with their crops, as the result more than justified all we claimed for it. A grower at Gardenville, Md., says: "I had 3000 heads of your Baltimore Cabbage Lettuce, and they all headed but one; they are slow to run to seed." The heads are large and solid; color pretty light green, and very slow to seed; in fact, it is just what the truckers and gardeners want. A large trucker in New Jersey writes: "The Baltimore Cabbage Lettuce I had of you was certainly very fine." Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.



BIG BOSTON.

The same in color, shape and general appearance as the Boston Market, double the size. A most desirable sort either for forcing in cold frames or planting in open ground. Is popular with truckers, as it makes large, solid, salable heads. Very highly recommended by those who have tried it.

Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.00.

BALTIMORE OAK LEAF.—This lettuce will resist the heat of summer and stand longer before running to seed than any variety we have ever known. It makes a large, solid head, and is very popular with those who know it.

Pkts., 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

MAMMOTH BLACK SEEDED BUTTER LETTUCE.

A strain of large, smooth leaved, head lettuce forming very large, solid cabbage-like heads of thick, brittle leaves, the inner ones becoming very white, tender and fine flavored.

Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.

ROMAINE, OR PARIS WHITE COS.—Differs entirely in shape from the other varieties, the head being elongated and of conical form, eight or nine inches in height and five or six inches in diameter. The outer coloring of this variety is yellowish green. It is very hardy and of good flavor. To blanch perfectly it must be tied up.

Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 30c. Lb., \$1.00.

BIG HEAD LETTUCE.

The "Big Head" is certain to please market gardeners and truckers, because it always produces large, salable heads. It is very solid and crisp, of tender quality, which makes it attractive. Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 35c. Lb., \$1.00.

IMPROVED NEW YORK, or "WONDERFUL."

Plants of extra large growth, producing heads of immense size under favorable conditions. Inner portion is beautifully blanched, and stands for a considerable time before running to seed. Outer leaves a deep, rich green.

Pkts., 5c. and 10c. Oz., 15c.
¼ lb., 30c. Lb., \$1.00.

CALIFORNIA CREAM BUTTER LETTUCE.

This is fairly well known, and has given good results with the growers.

Pkts., 5c. and 10c. Oz., 15c.
¼ lb., 35c. Lb., \$1.00.

HANSON.

A variation of the Indiana, forming a half-closed head.

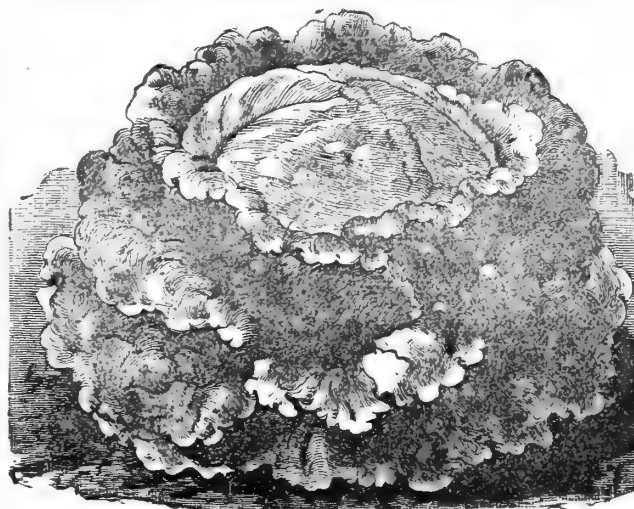
Pkts., 5c. and 10c. Oz., 15c.
¼ lb., 30c. Lb., \$1.00.

SALAMANDER (Black Seed).

An excellent sort for spring or summer use; forms good-sized heads of excellent quality.

Pkts., 5c. and 10c. Oz., 15c.
¼ lb., 30c. Lb., \$1.00.

LARGE LOAF LETTUCE



LARGE LOAF LETTUCE.

THIS is so well known to truckers and gardeners around Baltimore and Norfolk that for them it scarcely needs description. For the benefit of those who are not acquainted with it, would say it makes large, compact heads, is of beautiful light green color, very tender and crisp. This is unsurpassed for frame use, and is also an excellent outdoor lettuce for fall or early spring.

Pkt., 5c. Oz., 15c. ¼ lb., 30c. Lb., \$1.00.

BOSTON MARKET.

White seed. A celebrated variety in New England, of good heading habit; small, early and compact; quite desirable.

Pkts., 5c. and 10c. Oz., 15c.
¼ lb., 30c. Lb., \$1.00.

GRAND RAPIDS.—This variety is largely grown for shipment, and is considered by many the best loose-headed lettuce for forcing under glass. Leaves medium size, of light, yellowish green color, much crimped and frilled, thin, but of very upright growth; crisp, tender and of good quality. Owing to its upright habit, it may be planted very closely. It is of extremely rapid growth; very little liable to rot; will stand without spoiling a week to ten days after it is fit to cut, and retains its freshness a long time after cutting.

Pkts., 5c. and 10c. Oz., 15c.
¼ lb., 30c. Lb., \$1.00.

DEFIANCE.

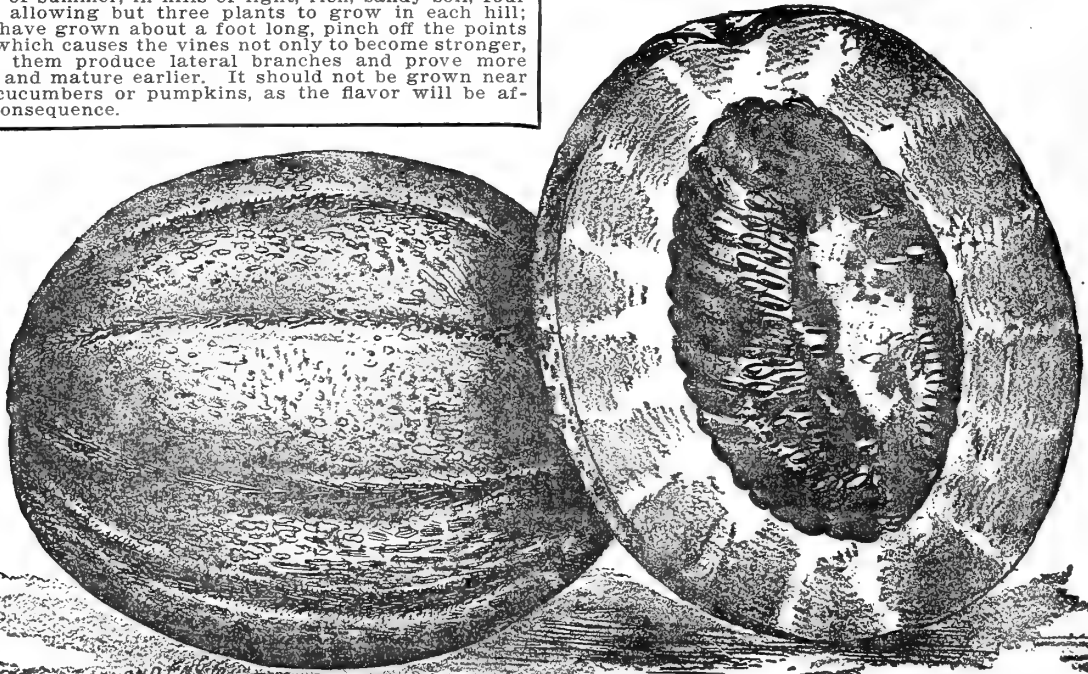
Stands summer heat better than any other variety; one of the finest large-growing varieties. It forms very large, solid heads, so firm they have to be cut open to allow the flower heads to come through.

Pkts., 5c. and 10c. Oz., 15c.
¼ lb., 30c. Lb., \$1.00.

MUSK-MELON. German, Melone.

CULTURE

One ounce of seed to 50 hills. Sow about the last of spring or the first of summer, in hills of light, rich, sandy soil, four feet apart, allowing but three plants to grow in each hill; after they have grown about a foot long, pinch off the points of shoots, which causes the vines not only to become stronger, but makes them produce lateral branches and prove more productive and mature earlier. It should not be grown near squashes, cucumbers or pumpkins, as the flavor will be affected in consequence.



MARYLAND
BALTIMORE

BALTIMORE NUTMEG.

BALTIMORE NUTMEG CANTALOUPE

THE cut is from a photograph taken from a sample lot of Baltimore Nutmeg Cantaloupes gathered from the field where our seed was grown, and is a fair representation of the whole crop. The stock seed of this splendid melon was secured from a trucker who enjoys the reputation for raising the finest Cantaloupes that come to the Baltimore market. The writer also tested the fruit, and found it to be of excellent flavor. It is green-fleshed, and the rind is handsomely netted. It is well known and popular with the truckers and market gardeners of Baltimore, Washington, Norfolk and other places; in fact, it is a leading sort all over the country. Pkt., 5c. Oz., 10c. ¼ lb., 40c. Lb., \$1.25.

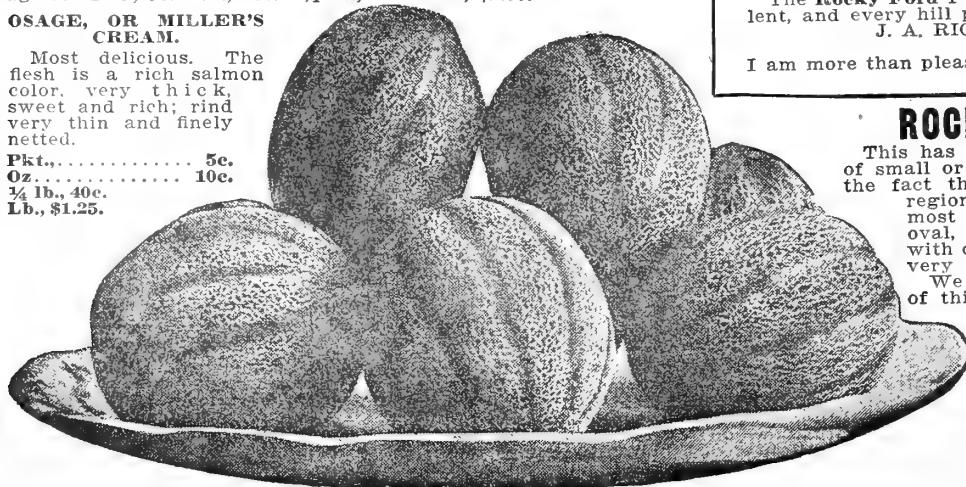
EMERALD GEM.

Meat, salmon color, exceedingly sweet and delicious; very early and prolific. One of the best for family use. Its appearance is not attractive, but try it, and you will want it again. Pkt., 5c. Oz., 20c. ¼ lb., 50c. Lb., \$2.00.

OSAGE, OR MILLER'S CREAM.

Most delicious. The flesh is a rich salmon color, very thick, sweet and rich; rind very thin and finely netted.

Pkt., 5c.
Oz., 10c.
¼ lb., 40c.
Lb., \$1.25.



ROCKY FORD.

EARLY NETTED GEM.

EXTENSIVELY grown, and many prefer it to all others for table use. Grows remarkably uniform; thick meated; flesh light green in color, and of fine, luscious flavor; skin green, regularly ribbed and thickly netted; very productive and extra early in ripening; will keep for nearly a week after picking, and is especially suited for shipping in baskets or crates. Pkts., 5c. and 10c. ¼ lb., 30c. Lb., \$1.00.

IMPROVED JENNY LIND.

A small, early variety of surpassing good quality, highly recommended for family garden. We consider this the most delicious Cantaloupe we have ever eaten, and while the fruit is small, it is an abundant bearer. A market gardener having this sort for sale would in a short time have no difficulty in disposing of all he could raise.

Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., \$1.00.

TRUE TO NAME.

The Rocky Ford I got of you last year was excellent, and every hill proved true to name.

J. A. RICHARDSON, Smithsburg, Md.

I am more than pleased with your seed.

N. E. MILLER, Virginia.

ROCKY FORD MELON

This has become one of the most popular of small or basket melons, largely owing to the fact that growers in the Rocky Ford region pack and ship their fruit in a most attractive manner. The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh thick, green, very sweet and high-flavored.

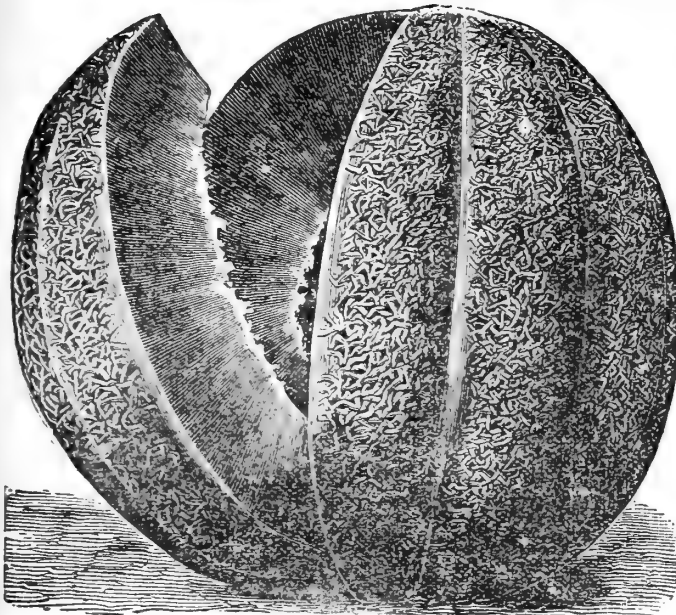
We have an exceptionally fine stock of this variety grown from choice selected specimens.

Pkt., 5c. Oz., 10c. ¼ lb., 30c.
Lb., \$1.00.

All prices subject to change without notice.

MUSK MELONS—Continued.

PAUL ROSE.



ANNE ARUNDEL.

ANNE ARUNDEL CANTALOUPE

(Original Stock.)

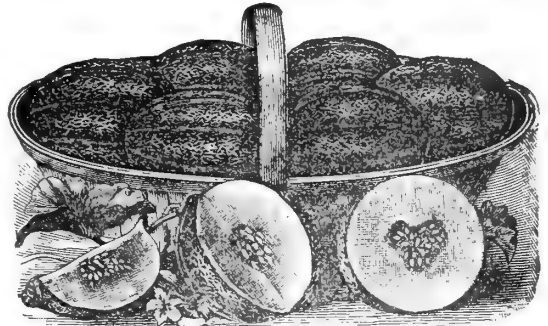
The cut represents a sample of our stock photographed from fruit taken from the growing seed crop. It is very large, nearly round, deeply netted, and of good flavor. A wagonload of them at once attracts the buyers' attention, and when piled up on a market stall they are irresistible. No large grower's stock is complete without this superb melon.

This handsome melon, introduced by us several years ago, was for years a special favorite with a number of the leading growers of Anne Arundel County, Maryland. This county is justly celebrated as growing the finest Cantaloupes in the country. We might almost say the finest in the world. Knowing its value, we selected the stock and placed it before our customers. It has met every promise we made for it upon its introduction. **Pkt., 5c. Oz., 10c. ¼ lb., 30c. Lb., \$1.00.**

One grower says: "It is in all respects one of the best of melons."

Another says:

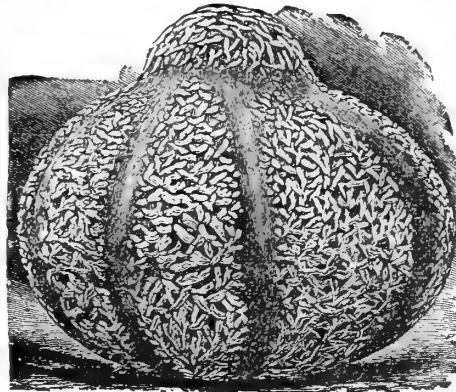
"Portsmouth, Va.
"Dear Sirs—The Anne Arundel Cantaloupe was perfectly satisfactory—just what it is claimed to be. It proved to be early, of good size, and gave me a large yield."



PAUL ROSE.

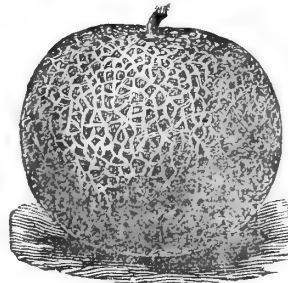
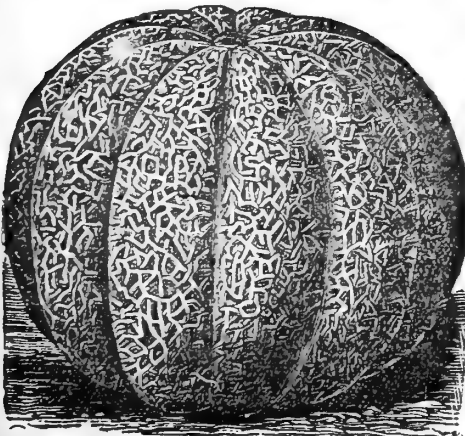
This variety originated with one of the most successful melon-growers in the country, who reports that when planted for market the fruit has brought him nearly twice as much per acre as he realized from any other sort. In this new sort are combined all the good qualities of the Netted Gem and the Osage, the varieties from which it originated. The fruit is oval, about 5 inches in diameter, and in shape and general appearance similar to the well-known Netted Gem or Rocky Ford. The firm flesh is a rich orange-red color, like that of the Osage, but even sweeter and higher flavored, retaining its good qualities quite to the rind. We have found the fruit the most uniformly good of any musk melon we have ever grown, every one of the hundreds tested being sweet and rich flavored. It is rare that a musk melon of such superlative quality is a good market or shipping sort, but the firm, solid flesh and thin but strong rind of this sort makes it the best shipper we know of, while it is just the size for hotel and table use. We think it really has no equal as a market melon for professional melon-growers, and it is one of the very best sorts for the home garden. **Pkt., 5c. Oz., 10c. ¼ lb., 40c. Lb., \$1.25.**

NORFOLK BUTTON.



An improved strain of Early Jenny Lind, having a nub or button on the blossom end, which gives it a distinction over all other varieties. It is very early, of remarkably fine texture and delicious flavor, and produces fruits of the finest quality. It is extra fine for both home and market use. We are putting the above on the market for the first time, and have but a limited supply of seed. Those who wish to secure a trial order will do well by placing their order at once.

Pkt., 5c. and 10c. 1-4 lb., 40c. Lb., \$1.25.



BANQUET.

This superb melon represents years of careful selection and improvement. The raiser regards it as his greatest production, and likely to supersede all other red-fleshed melons. "The Banquet" is a medium-sized melon, flat at both ends, and more beautifully netted than any known variety. In quality it has no equal; the flesh is uniformly deep and of that granulated character that always indicates a good melon; the color is a dark, rich salmon.

Pkt., 5c. Oz., 23c. ¼ lb., 50c.

EXTRA EARLY HACKENSACK

Netted, green flesh and excellent; very showy market variety and an excellent keeper. Ten days earlier than the Old Hackensack.

Pkt., 5c. Oz., 10c. ¼ lb., 40c. Lb., \$1.25.

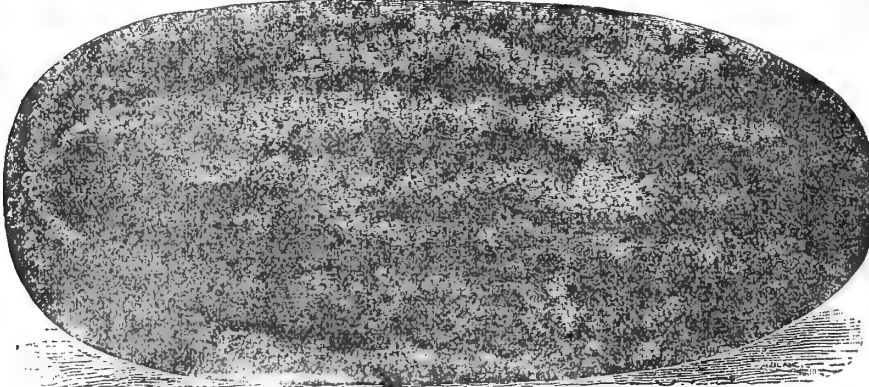
PERFECTED—DELMONICO.—This is one of the best of the red-flesh sort; the flesh is a deep, rich orange color, of very fine grain, and of delicate and delightful flavor. **Pkt., 5c. Oz., 15c. ¼ lb., 50c.**

LONG ISLAND BEAUTY—**Pkt., 5c. Oz., 15c. ¼ lb., 50c.**

WATERMELONS

German—Wasser Melone

CULTURE.—One ounce of seed to thirty hills. Watermelons require a rich, sandy soil for best development. Cultivate the same as for cantaloupes, except that the hills should be eight or ten feet apart.



LORD BALTIMORE

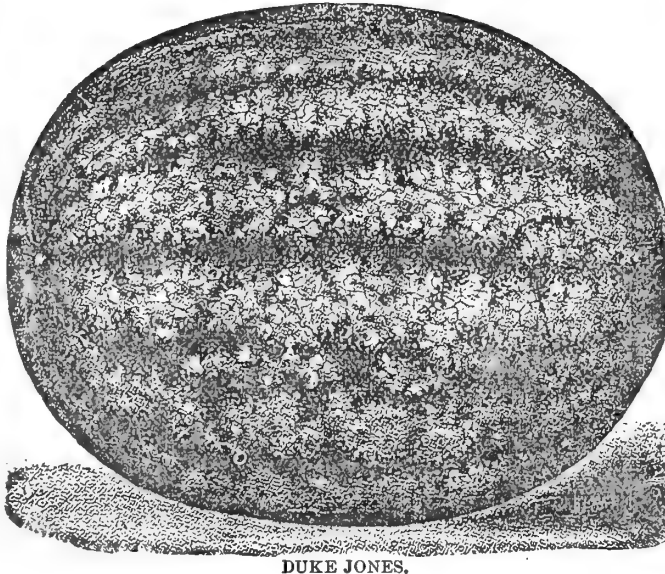
IT is early, very large, of oblong shape, and the flesh is of handsome crimson color, deliciously sweet, and extending close up to the rind. It has a thin, hard rind, beautifully mottled light and dark green. Its perfect shape, faultless color, fine texture and excellent flavor combine to make it one of the very best melons that grows. It is a good shipper, and beats all others as a seller.

Packet, 5c. Ounce, 10c. ¼ Pound, 20c. Pound, 60c.

Duke Jones Watermelon

IN shape the **DUKE JONES** resembles very closely the Kolb Gem. The rind is darker green in color, with indistinct, irregular stripes of dark and light green alternating; in general appearance it is a dark green melon. It averages very large in size, comparatively no small melons; is very productive; it is also very early in maturing, ripe melons being plucked from the vine just 67 days from the date of planting. Its chief claim for popularity is its delicious flavor. The flesh is crisp and very sweet, firm, but not too tough; no hard middles, but ripens evenly throughout; flesh deep crimson in color. The Duke Jones is the largest of melons, but has no superior in its delicious flavor.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.



DUKE JONES.

GRAY MONARCH, OR LONG WHITE ICING.

This distinct melon is without doubt one of the largest of all, frequently attaining a weight of 70 pounds and over. The skin is a mottled gray color, shape long, flesh bright crimson, and of sweet, delicious flavor. It is also a fine shipper, carrying well long distances, and bringing very high prices.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

RATTLESNAKE WATERMELON.

Large, oblong, striped and mottled; flesh bright red; a good shipper; a favorite variety in the South.

Pkts., 5c. and 10c. ¼ lb., 20c. Lb., 50c.

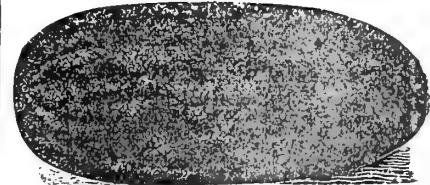
BRADFORD WATERMELON.

A favorite above all others in sections where it has been grown. It makes a strong, healthy growth of vine and is very productive. The melons grow to a large size; rind dark green with darker stripe; flesh red and remarkably tender and sweet. An excellent melon for home use.

Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 75c.

CITRON For Preserves. Fruit round and handsome. Used in making preserves only.

Pkts., 5c. and 10c. ¼ lb., 20c. Lb., 65c.



Florida Favorite

THIS we consider the richest and sweetest flavored melon grown, of medium size and prolific. The best of all for family garden. It is now very popular with the truckers and melon-growers of Maryland and Virginia, and sells readily in the Baltimore markets.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

MEIVER'S SUGAR WATERMELON.

In outward appearance it somewhat resembles the old Rattlesnake. The quality, however, is so much superior that it is an injustice to mention the Rattlesnake on the same page with it, as it even surpasses such excellent varieties as Florida Favorite and Icing. It is also an extremely productive and hardy variety.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

FORDHOOK EARLY.

This is a very early variety, growing to a good size; color, medium green; form, nearly round; seeds, white; flesh, bright red and very sweet.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

BLACK BOULDER.

It is enormously productive, reaching a mammoth size, with rich, dark green skin. It cuts equal to any melon we have ever eaten, and its shipping qualities are phenomenal, no other melon equaling it in tough skin and rind; in this respect even superior to the Kolb Gem.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

KLECKLEY'S SWEETS.

Skin dark green, thin rind, flesh scarlet, very solid, firm and most luscious quality. For the home market or family garden it is decidedly one of the best.

Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 65c.

Triumph Watermelon

This new melon, as a market sort and for shipment, is the very best we have ever

introduced. It is very prolific, very early, and of uniformly large size. It is a cross between the Duke Jones and the Kolb Gem; has the handsome appearance of the former and the fine shipping qualities of the latter. The rind, like Duke Jones, is of dark green color; the seed is exactly the same color as that of Kolb Gem. The average size of the melon is very large. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

BLACK STRIPED KOLB GEM WATERMELON

The size of this fruit is uniformly large; shape oval; color a rich dark green with fine stripes of lighter shade; much darker and richer than the old well-known Kolb Gem; flesh rich deep pink; crisp and melting; ripens to within half inch of rind. The exceptionally strong rind makes it an excellent shipper; flavor remarkably sweet and sugary.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 40c.

WATERMELONS—CONTINUED

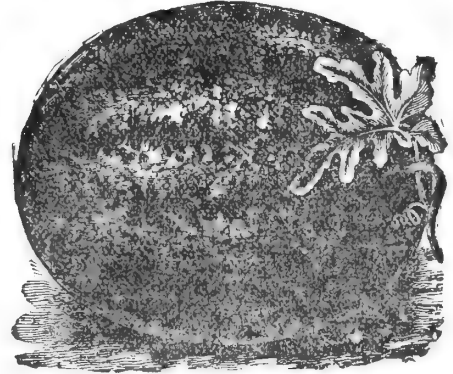
KOLB'S GEM



BLUE GEM

THIS splendid Melon resembles the Kolb Gem in shape, and is one of the very best shippers, and as a table melon is of a dark bluish color, with small grayish stripes. Is much superior to the Kolb Gem. Very productive, and is handsome and showy.

A grower in Dixie (Georgia) says: "If you want a shipper that will go around the world, you can safely select the **BLUE GEM.**" Pkts., 5c. and 10c. ¼ lb., 20c. Lb., 50c. 5 lbs., \$2.25.



THIS is one of the largest, most productive, best keeping and best shipping Watermelons grown. Sells readily at the highest market prices. In fact, it is so well known that it speaks for itself. Our stock of this comes direct from the original grower. Special prices on large quantities.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 40c

DIXIE.

It is earlier and larger than the well-known and popular Kolb Gem, and in color a darker green, with beautiful stripes, making it one of the handsomest melons on the market. Flesh deep red, sugary and melting.

Pkts., 5c. and 10c. ¼ lb., 20c. Lb., 50c.

SWEETHEART.

An entirely distinct and handsome new Watermelon. Vine vigorous and productive, ripening early. Fruit large, oval, very heavy, uniformly mottled light and dark green. Flesh bright red, solid and very sweet.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

ENGLISH MILL TRACK MUSHROOM SPAWN

Lb., 15c. By Mail, 25c. Lb., Postpaid. 10 Lbs., \$1.00. 100 Lbs., \$8.00, by Freight or Express.

CULTIVATION

THE cultivation of the Mushroom is a very simple matter and requires only ordinary intelligence and care. The materials needed are fresh horse manure, good soil and live spawn. The manure should not be too short, as it does not combine the necessary qualities. Long strawy litter, plentifully mixed with short manure, makes by far the best beds, as it does not heat too violently, decomposes slowly and retains its heat for a long period. Put in a heap and turn every three or four days to permit the escape of noxious gases and prevent burning. When ready for use it should be as hot as can be borne comfortably by the hand, and should also be moist. Make the beds 2 feet wide at the base, 2½ feet high, and of any desired length. The manure, when in proper condition, should be quickly handled to prevent the loss of heat, and be beaten down to make the heap firm and compact, and covered with long litter. The bed should within a few days warm to a temperature of 110 to 120 degrees. Never spawn a bed when the heat is rising, but always on the decline and under 90 degrees. Have a ground thermometer, and keep it plunged in the bed; by pulling it out and looking at it you can ascertain exactly the temperature of the bed. Should the temperature not exceed 100 or 110 degrees no alarm should be felt, for if the manure was fresh it will likely produce a good crop. When the heat has decreased to 90 degrees the bed is ready to receive the spawn, which is done by raising the manure with the hand and inserting pieces

of spawn 2 inches square and 9 inches apart each way. At the expiration of a few days the bed may be covered with soil to the depth of about 2 inches. If in a closed cellar or mushroom house, wait about ten days, but if in open shed five days will do. If the soil is poor, add a liberal quantity of bone meal. It requires a period of 5 to 7 weeks before they are ready for use.

Two pounds of spawn are sufficient for a bed 3 feet by 6 feet.

Mushrooms can be readily grown in cellars, stables, sheds or pits. Many are successfully grown on a shelf in an ordinary cellar, and yield sufficient crops to compensate the grower for his effort. The space under greenhouse benches or stagings will suit them exactly, using materials in the same manner as described.

MUSHROOMS ON PASTURE LAND OR LAWN.—About the first of June take pieces of spawn an inch square, and lift the sod with a trowel or spade just sufficient to get a spawn under it, and then press the soil down hard. Set the spawn 1 to 2 feet apart. In a favorable season a crop may be expected in 3 or 4 months from the time of planting.

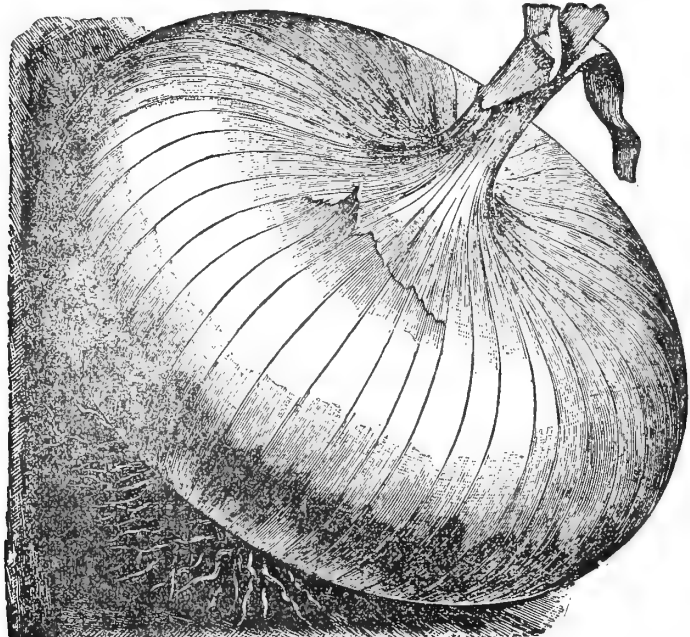


ONION SEED

German,
Zwiebel

CULTIVATION. TO GROW LARGE ONIONS FROM SEED.—The seed should be sown as early as possible in the spring, as they grow much better during the cool weather, and should make most of their growth before the hot weather sets in. Sow 5 pounds of seed to the acre for large onions.

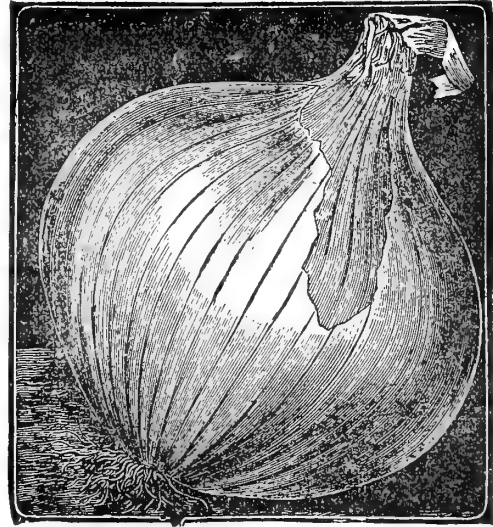
THE NEW ONION CULTURE.—Sow the seed in hotbed and transplant early as possible to open ground. They can be grown very successfully by this plan.



WHITE SILVERSKIN, or PORTUGAL.—A good variety for family use; skin and flesh pure white, mild flavor and flat shape. The best white onion to grow largely for sets. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.

WHITE PEARL ONION.—Earliest of all, growing with all the rapidity of a summer radish. Pearly white, waxy and transparent. Form flat and broad, flavor very mild, and it can be eaten raw almost like an apple. On rich soil it will grow very large. This is an elegant sort to sow for large onions, because of its rapid growth and fine quality. Pkts., 5c. Oz., 20c. ¼ lb., 40c. Lb., \$1.50.

AUSTRALIAN BROWN—A Valuable Long-Keeping Onion.—This new Onion, introduced into the United States a few years since, has met with wonderful success, and is pronounced the best keeper of all onions. The outside skin is of a deep amber brown, distinct from all other onions, extremely hard and firm, of fine flavor, and will keep almost indefinitely. Australian Brown is the only onion Australian growers will plant. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 40c. Lb., \$1.50.



PRIZETAKER

American Grown.

THIS is the large, beautiful onion that is seen every fall offered for sale at the fruit stores in Baltimore and other large cities. It has a rich straw color, and is of enormous size. Although of such large size, it is very hardy and an excellent keeper. The flavor is mild and delicate, making the Prizetaker a favorite variety for salads. By sowing this sort early you can raise a large crop of large onions the first season with very little trouble. All that is necessary is good ground, proper cultivation, and not to have them too thick. Those of our growers who have tried this variety have had remarkably fine success. Pkt., 5c. Oz., 20c. ¼ lb., 40c. Lb., \$1.50.

WETHERFIELD LARGE RED.—Well-known and favorite sort. A large yielder and good keeper. Pkt., 5c. Oz., 15c. ¼ lb., 40c. Lb., \$1.75.

LARGE YELLOW DUTCH, or STRASBURG.—Very fine; a good keeper. The kind used very largely by those who grow onion sets for market. Pkt., 5c. Oz., 20c. ¼ lb., 40c. Lb., \$1.50.

YELLOW FLAT DANVERS.—Pkts., 5c. and 10c. Oz., 25c. ¼ lb., 40c. Lb., \$1.50.

Bermuda Varieties

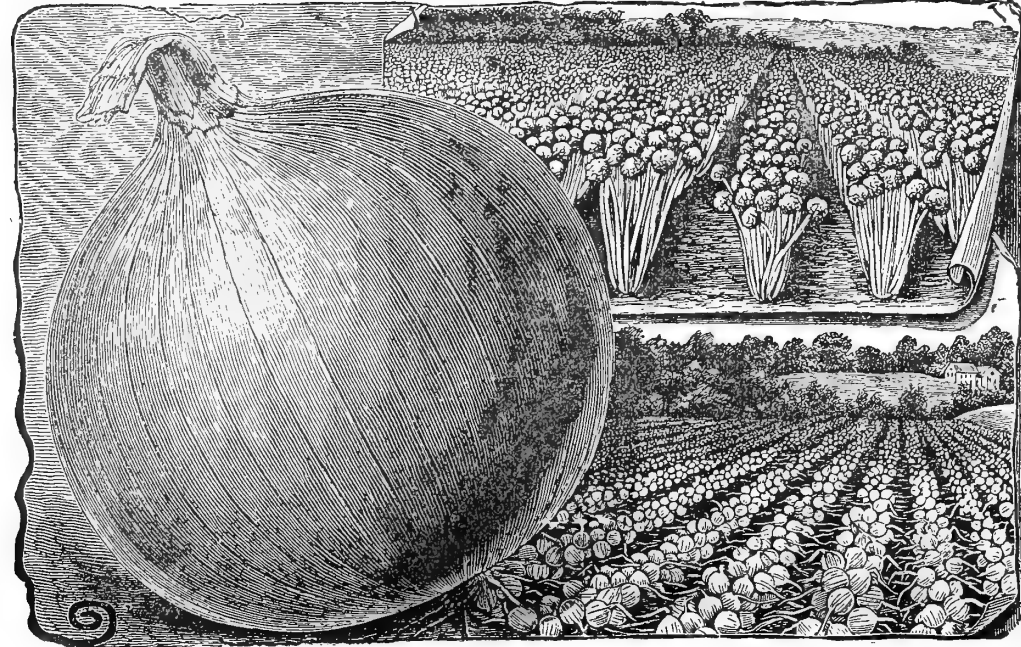
They are of a mild and delicate flavor, and keep longer than any foreign variety. Like the Italian varieties, they will produce full-grown onions from seed the same season. In the South seed sown in the fall will produce fine large onions for market in the early spring.

RED BERMUDA.—Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

WHITE BERMUDA.—Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

Yellow Globe Danvers

A very handsome, round, yellow onion; a large yielder and splendid keeper; the preferred sort with market gardeners and large growers all over the country. We unhesitatingly recommend it for growing either sets or large onions. Pkt., 5c. Oz., 20c. ¼ lb., 40c. Lb., \$1.50.



ONION SETS

CULTIVATION FOR SETS.

Have a clean and very rich soil, which should be thoroughly cultivated, or it will not do well enough to pay for the trouble. The most successful growers work their ground several times in the fall to kill out the weeds and get ground in nice condition. Use well-rotted manure freely, and be sure to get the seeds in as early as possible in the spring, no matter if it is ever so cold or unpleasant, and keep the soil mellow and clear of weeds, and if seed is good you will have a large crop of onion sets. On no other condition can you hope for success. Disturb the roots of the onion as little as possible, either in thinning or hoeing, and never hoe earth toward them to cover or hill, as we do most other things.

WHITE—
Qt., 20c.;
mailed, 30c.
YELLOW—
Qt., 15c.;
mailed, 25c.
Write us for
quotations
by the
bushel.



Sow the seed in drills about 12 inches apart. It will require from 40 to 60 pounds to sow an acre.

OKRA, or GUMBO



Select warm location and rich soil, and plant when the ground becomes warm, in rows three feet apart, thinning plants a foot apart in the row. As the seeds are liable to rot in cool weather, they should be sown thickly. The pods are used to thicken soup, being gathered when young. It is one of the most wholesome vegetables in use.

DWARF OKRA.

This is the preferred kind with the growers; is of dwarf habit and very productive.
Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c.

WHITE VELVET.

It is very distinct, and the pods are perfectly round and smooth, of an attractive white velvet appearance, and of superior flavor and tenderness. The pods are of extra large size, and produced in great abundance.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

NASTURTIUM

Plant in May, the climbing varieties to cover arbor or fence, and the dwarf for beds or hanging baskets. The leaves are used for salad, and the seeds, when soft enough to be penetrated by the nail, for pickles.

FALL—Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 60c.
DWARF—Pkt., 5c. Oz., 10c. ¼ lb., 25c. Lb., 75c.

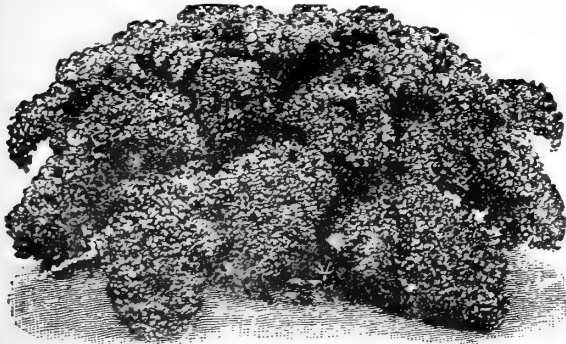
MUSTARD GIANT CURLED

Highly esteemed in the South, where the seed is sown in the fall and used in the spring as a salad. Our stock is the true curled leaf, and produces plants two feet high and of greater breadth, forming enormous bunches.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

WHITE MUSTARD—¼ lb., 10c. Lb., 30c.

PARSLEY. SELECT rich soil; sow the seed in drills one foot apart, covering half an inch deep. It would be well to firm the soil with the foot after sowing the seed. As the seed is usually from 15 to 25 days in germinating, it will be necessary to sow early. Thin plants to 4 inches apart when 2 inches high. The beauty of the plant may be increased by several successive transplantings. It is used principally for flavoring soups, etc., and for garnishing in its natural state.



DWARF EXTRA CURLED—The most beautiful and valuable variety in use; handsome bright green color, finely crimped, beautifully curled.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c.

MOSS CURLED—A very select crimped variety.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 45c.

PEPPER, or CAPSICUM

Is cultivated mainly for pickles; used as a seasoning in many ways; sometimes medicinally. Sow seed early in hot-bed, if possible; if not, select a warm place in the garden for seed bed; sow as soon as the soil is warm. Transplant when 3 or 4 inches high, in rows 18 inches apart.

CAYENNE—Small, long and tapering, very hot; best for seasoning pickles. Pkts., 5c. and 10c. Oz., 25c. ¼ lb., 65c.

LARGE SWEET—Very large and excellent for mangoes or stuffed pickles. Pkts., 5c. and 10c. Oz., 25c. ¼ lb., 65c.

BULL NOSE, or BELL—Good for pickling; very hot. Pkts., 5c. and 10c. Oz., 25c. ¼ lb., 65c.

RUBY KING—Excellent sort of large size and mild flavor. Pkts., 5c. and 10c. Oz., 25c. ¼ lb., 75c.

GOLDEN QUEEN—In shape and size similar to Bull Nose; of mild flavor; color, yellow. Pkts., 5c. and 10c. Oz., 25c.

RED CHILI—Pkts., 5c. and 10c. Oz., 25c.

PARSNIP

The Parsnip will flourish best and give the longest, largest and smoothest roots in a very deep, rich soil—one that has been made rich from manure the previous year. Fresh manure makes the roots somewhat ill-shaped. Sow as early in the spring as the ground can be made ready, pretty thickly in drills from 12 to 18 inches apart, and about an inch deep. Thin the plants to five or six inches apart.

Hollow Crown or Sugar

The Hollow Crown is superior in quality to all other varieties, and the preferred kind with Baltimore gardeners. The roots are smooth, tender, handsome shape and early. We have the finest stock of Hollow Crown Parsnips that we know of in this country.

Pkts., 5c. and 10c. ¼ lb., 15c. ½ lb., 25c. Lb., 40c.

Chinese Giant Pepper

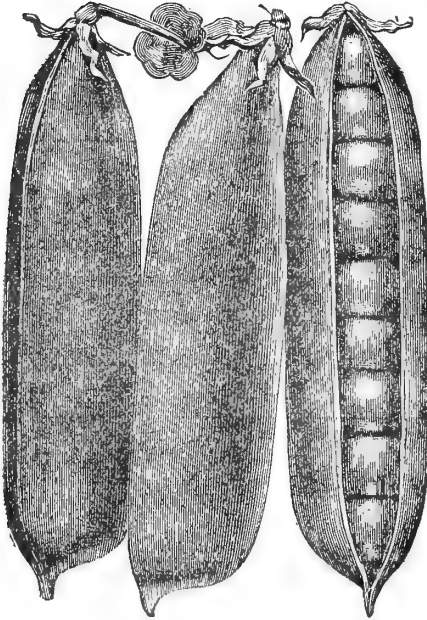
Double the size of Ruby King; the finest mild Red Pepper grown. It is very productive, having a magnificent appearance, which makes it sell readily.

Pkts., 10c. Oz., 50c. ¼ lb., \$1.25.

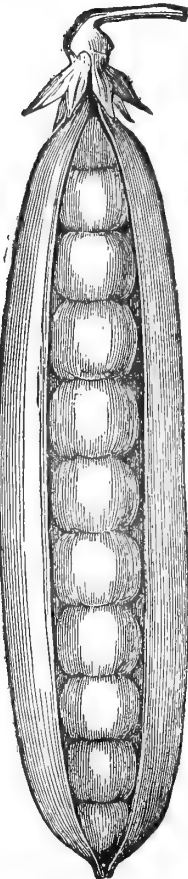


PEAS.

NOTICE.—In ordering Peas to be sent by mail, please add 8c. per pint to pay postage. THE dwarf varieties should be liberally manured; the tall sorts will run too much to vine if heavily manured, it being better to depend on the richness of the land that was previously in good condition. Plant the dwarf in rows two feet apart; those varieties attaining a height of from two to three feet in rows three feet apart, and the rows of the tallest sort four feet apart. Bushing the tall kind when six inches high, on poles set every six or eight feet, with twine fastened to them about four inches apart, will answer finely.



EXTRA EARLY VARIETIES.



MARYLAND PRIDE.

THOS. LAXTON.—Habit and growth same as **GRADUS**, but pods are a deeper green color, square at the ends, having fine flavor. Pt., 20c. Qt., 35c. Peck, \$2.25. Bus., \$7.50.

GRADUS, OR PROSPERITY—Pale Green Wrinkled.—The most attractive novelty of recent years. Large, handsome pods, well filled, ripening with the earliest and of vigorous habit. Pt., 20c. Qt., 35c. Peck, \$2.25. Bus., \$8.00.

MARYLAND PRIDE PEAS.—Introduced by us last season for the first time, giving universal satisfaction to the market gardeners and shippers. Pods large, of a deep green color and nearly as early as Alaska. Pt., 20c. Qt., 40c. Pk., \$2.00. Bus.

PREMIUM GEM.—Height, 15 inches. An improvement upon the Little Gem. A splendid wrinkled dwarf pea; very luscious in flavor. Pt., 15c. Qt., 30c. Peck, \$1.75. Bus., \$6.25.

McLEAN'S LITTLE GEM.—Similar to Premium Gem, but more straggling in growth; pods not so well filled; height, 18 inches; seed, green, wrinkled. Pt., 15c. Qt., 30c. Peck, \$1.75. Bus., \$6.25.

BLUE PETER, OR BLUE TOM THUMB.—One of the earliest and hardest of the dwarf varieties; blue seed, dark green pods; large Peas of excellent quality; much superior to the White Tom Thumb. Pt., 15c. Qt., 30c. Peck, \$1.75. Bus., \$6.25.

MEDIUM OR SECOND EARLY HALF-DWARF, WRINKLED VARIETIES.
ADVANCER.—Height, 2½ feet. A green wrinkled variety; introduced some years ago, and has always given satisfaction. Qt., 30c. Peck, \$1.50. Bus., \$5.75.

EVERBEARING.—Vines are about 2 feet high, of a branching character, forming as many as 10 stalks from a single root stalk. Peas large and of fine quality. Qt., 30c. Peck, \$1.50. Bus., \$5.75.

YORKSHIRE HERO.—Height, 2½ feet. A wrinkled variety; productive, and of very superior flavor. Qt., 30c. Peck, \$1.50. Bus., \$5.50.

SHROPSHIRE HERO.—A grand new second early wrinkled Pea, producing long, handsome, well-filled pods in great abundance. Height, 2½ feet. Pt., 15c. Qt., 30c. Peck, \$1.50. Bus., \$5.50.

ABUNDANCE.—Height, 30 to 36 inches. An excellent half-dwarf, medium early, wrinkled variety; pods 3½ inches long, containing 6 to 8 large Peas of excellent quality. Qt., 30c. Pk., \$1.50. Bus., \$5.50.

PRIDE OF THE MARKET.—A medium early dwarf Pea of vigorous habit and very productive. The pods are large, of a medium green color, and contain 7 to 9 Peas of fine quality; 1½ feet. Pt., 15c. Qt., 30c. Peck, \$1.75. Bus., \$6.50.

HORSFORD'S MARKET GARDEN.—Height, 2½ feet. A medium early wrinkled variety; highly recommended. Qt., 30c. Peck, \$1.50. Bus., \$6.25.

IMPROVED STRATAGEM.—Height, 2½ feet. A large, wrinkled, blue Pea of excellent quality; very long, large, filled pods. More regular in its growth than the ordinary Stratagem, and in every way superior. Qt., 30c. Peck, \$1.75. Bus., \$6.75.

DWARF GREEN WRINKLED MARROW.—An excellent new wrinkled variety. Large pods and very productive. Qt., 30c. Peck, \$1.50. Bus., \$5.75.

G. & T. CO.'S FIRST EARLY PEAS

(In Sealed Bags, Thoroughly Rogued and Hand-Picked.) THIS is the earliest of all and the most profitable early market Pea, because of its early maturity, uniformity of growth and ripening and its productivity. It ripens up so evenly as only to require about two pickings to secure the crop. It is grown from selected stock, under our own supervision, and the greatest care is exercised to keep it up to the highest standard of quality. It is a great favorite with the truckers, and is largely used by private families. Our sales of this sort increase annually.

Pint, 15c. Quart, 30c. Peck, \$1.50. Bushel, \$5.75.
NEW LARGE PODDED ALASKA.—In general habit and growth resembles the well-known Alaska. Ripening about three days later, but with much longer and thicker pods. Handsomely shaped, of a beautiful dark green color, which is retained long after other varieties have lost their usefulness. The seed is somewhat wrinkled and dented. We strongly recommend this new pea to gardeners, truckers and shippers as a most productive and large extra early variety. Quart, 30c. Peck, \$2.00. Bushel, \$7.00.

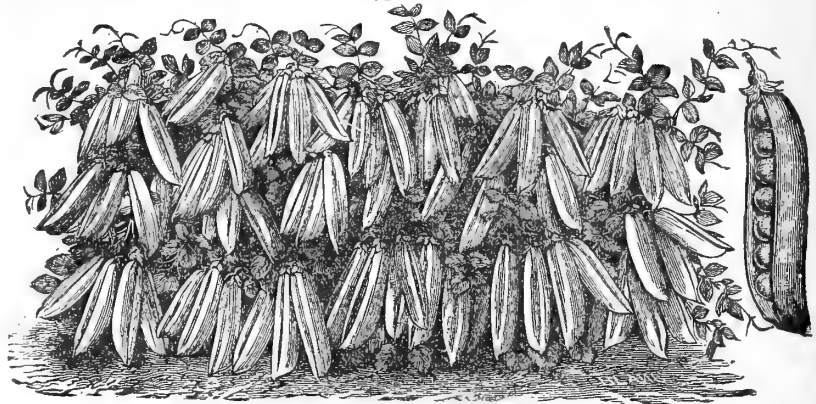
ALASKA.—Our best rogued and hand-picked stock. Height, 26 inches. The earliest Blue Pea; very uniform in growth and time of ripening. The dark green color of pods makes this a most desirable sort for canners and shippers, as it can be carried long distances without losing color.

Quart, 30c. Peck, \$1.75. Bushel, \$6.00.
DEXTER (Genuine Stock).—Thoroughly rogued and hand-picked.

Quart, 25c. Peck, \$1.50. Bushel, \$5.00.
RURAL NEW YORKER.—Height, 2½ feet. In maturity it is among the first early. Quart, 30c. Peck, \$1.50. Bushel, \$5.50.

FIRST AND BEST.—Height, 2½ feet. Grown with special care. One of the early varieties. Quart, 30c. Peck, \$1.50. Bushel, \$5.50.

TRIUMPH PEAS.—Quart, 30c. Peck, \$1.50. Bushel, \$5.50.
PHILADELPHIA EXTRA EARLY PEAS.—Qt., 30c. Peck, \$1.50. Bus., \$5.50.



NOTT'S EXCELSIOR PEAS.

DWARF EXTRA EARLY VARIETIES.

NOTT'S EXCELSIOR.—It is the best of dwarf wrinkled extra early of recent introduction. The vines are larger and more vigorous than the American Wonder, while the pods are fully one-third larger, containing 6 to 8 fine, large Peas, packed so closely together in the pods that the Peas are always more square than round. The pods are always well filled with Peas, which in sweetness and quality have no superior. Pt., 15c. Qt., 30c. Peck, \$1.75. Bus., \$6.50.

AMERICAN WONDER.—Very luscious in flavor. Try it. Height, 12 inches. The earliest wrinkled Pea; very productive and sweet. Better suited to the private than to the market garden. Pt., 15c. Qt., 30c. Peck, \$1.75. Bus., \$6.50.

PREMIUM GEM.—Height, 15 inches. An improvement upon the Little Gem. A splendid wrinkled dwarf pea; very luscious in flavor. Pt., 15c. Qt., 30c. Peck, \$1.75. Bus., \$6.25.

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DWARF GREEN WRINKLED MARROW.—An excellent new wrinkled variety. Large pods and very productive. Qt., 30c. Peck, \$1.50. Bus., \$5.75.

PEAS—Continued.

MAIN CROP, MEDIUM AND LATE VARIETIES



HEROINE PEA.

TALL GRAY SUGAR.—Edible pods; cooked in the pods same as Snap Beans. Pt., 15c. Qt., 30c. Peck, \$2.00.
DWARF GRAY SUGAR.—Edible pods; quite a favorite. Pt., 15c. Qt., 30c. Peck, \$2.00.

HEROINE PEA.
 A medium early, green, wrinkled Pea, and one of the best of recent introduction; large, curved, showy pods; an immense cropper; Peas of finest quality. Height, 2 to 2½ feet. Pt., 15c. Qt., 30c. Peck, \$1.50. Bus., \$6.00.

TELEPHONE.—Height, 3 to 4 feet. Large wrinkled seeds; pods large and well filled. Pt., 15c. Qt., 30c. Peck, \$1.75. Bus., \$6.75.

TELEGRAPH, OR LONG ISLAND MAMMOTH.—Resembles the Telephone in every respect, except they are a deeper shade of green. Pods are very attractive in appearance. Pt., 15c. Qt., 30c. Peck, \$1.50. Bus., \$5.50.

CHAMPION OF ENGLAND.—Height, 4 feet. An old favorite, rich flavored and very productive. Pt., 15c. Qt., 25c. Peck, \$1.50. Bus., \$5.25.

FRENCH CANNER.—Height, 3½ feet. The celebrated Pea used in France by the canners. It is wonderfully prolific, bearing an abundance of long pods, containing 7 to 9 peas of excellent flavor. Pt., 10c. Qt., 20c. Peck, 90c. Bus., \$3.50.

IMPROVED SUGAR MARROWFAT PEAS (Genuine Stock).—Height, 3½ feet. Grows a strong vine, bears in abundance large, filled pods. The truckers' favorite. Pt., 10c. Qt., 20c. Peck, 90c. Bus., \$3.50.

EDIBLE PODDED OR SUGAR PEAS

MELTING SUGAR—Edible Pods.

THIS variety is ahead of all other Sugar Peas, not only in size of pod and prolific bearing, but also for its delicious flavor. It grows to the height of 5 feet, bears a profusion of very large, broad, handsome light green pods, and are so brittle that they snap without any strings. Pt., 15c. Qt., 30c. Peck, \$2.00.



GARDENER'S FAVORITE.

HHEIGHT, 30 to 36 inches. A wrinkled variety named and introduced by us, and which is constantly gaining friends; of most delicious flavor, prolific bearer, specially suited for the market garden trade. It is also attracting considerable attention with some of our leading canners, as when packed they find the quality to be superior to any other sort. Pt., 15c. Qt., 30c. Peck, \$1.50. Bus., \$5.00.

ADMIRAL DEWEY

Here we have a most excellent Pea, with large, handsome pods; Peas of the highest quality. More dwarf than the Stratagem, and about a week earlier in maturing; regular and uniform in growth; vines stocky, healthy and of vigorous growth; pods long, frequently containing 10 peas, of tender and delicious flavor. Don't fail to try it. Pt., 20c. Qt., 35c. Peck, \$2.00. Bus., \$7.00.

SALSIFY

OR VEGETABLE OYSTER

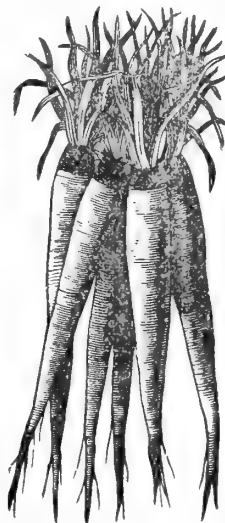
Sow in early spring in light, rich soil in drills 14 inches apart and thin the plants to six inches in the row. The roots will be ready for use in

October and will sustain no injury by being left in the ground during the winter.

SANDWICH ISLAND MAMMOTH.

This new Salsify grows fully twice the size of the old sort, and is superior in quality. Invaluable to market gardeners. Pkt., 5c. Oz., 10c. ¼ lb., 40c. Lb., \$1.25.

LARGE WHITE.
 The old well-known variety. Pkts., 5c. and 10c. ¼ lb., 40c. Lb., \$1.00.



PUMPKIN

PLANT in May, in hills 8 feet apart. Allot 10 seeds to each hill, as bugs often destroy the young plants, but only allow 2 to 3 healthy plants to remain in each hill. They are usually planted in fields with corn or potatoes.

G. & T. CO.'S MARYLAND SWEET POTATO.

THIS is the best table Pumpkin in cultivation. In shape and size it somewhat resembles the Cashaw, but much more beautiful in color, being a handsome green and white striped. The flesh is a rich yellow color, solid, fine grained, very thick; flavor delicious.

Pkt., 5c. Oz., 15c. ¼ lb., 35c. Lb., \$1.00.

LARGE CHEESE.—Skin reddish orange, flesh thick, fine and sweet.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

TENNESSEE SWEET POTATO.—A splendid pie and cooking pumpkin. They grow pear-shaped, of medium size, slightly ribbed; skin is creamy white, lightly striped with green; flesh very thick, creamy white, dry and fine-grained, keeping well until late in the spring. When cooked resembles sweet potatoes, but much more delicious in taste.

Pkt., 5c. Oz., 15c. ¼ lb., 20c. Lb., 50c.

CONNECTICUT FIELD.—Very productive and grown for feeding stock. It is so well known that it does not need description.

Pt., 15c. Qt., 20c. Lb., 25c.

YELLOW CASHAW, OR CROOKNECK.—Solid flesh, fine and sweet; keeps well.

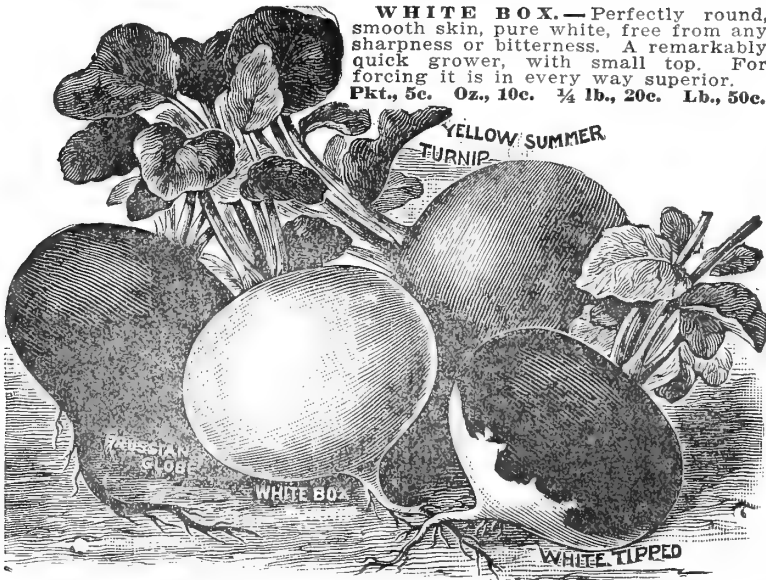
Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.



G. & T. CO.'S MARYLAND SWEET POTATO

RADISH

ONE OUNCE
WILL SOW
100 FEET
OF DRILL.



WHITE BOX.—Perfectly round, smooth skin, pure white, free from any sharpness or bitterness. A remarkably quick grower, with small top. For forcing it is in every way superior. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

YELLOW SUMMER TURNIP.

PRUSSIAN GLOBE

WHITE BOX

WHITE TIPPED

FOR an early supply sow in hotbed in February. For a successive supply sow from middle of March to September. Radishes thrive best in light, rich, sandy loam. The radish must make a rapid growth to be fit for use; it will then be crisp and tender and of a mild flavor. If it grows slowly it will be hard, fibrous and disagreeably pungent.

EARLY WHITE TIPPED SCARLET.—An excellent variety for forcing, with very short leaves; bright scarlet in color, with a white tip. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c. 5 lbs., \$2.25.

EARLY SCARLET, OR PRUSSIAN GLOBE RADISH.—This is the very best forcing variety; is sown largely by market gardeners and truckers, and they are delighted with it. It is of globular shape and brilliant, beautiful crimson color, short top, and will stand a large amount of heat without becoming pithy. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

FRENCH BREAKFAST.—Of oval form; color scarlet, white tipped. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

EARLIEST WHITE TURNIP.—For forcing. This and the Red Turnip bunch together very nicely. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

EARLY RED TURNIP.—Turnip shaped; red skin; for forcing. Sometimes called Red Button Radish. Pkt., 5c. ¼ lb., 15c. Lb., 50c.

TRIUMPH RADISH—Striped, Red and White.—This is a beautiful and odd Radish, which, when mixed in the bunch with Scarlet Radishes, makes a pleasant contrast. The Radishes are globe-shaped and strikingly handsome, having bright scarlet stripes on a white ground. It is a splendid forcing variety, with short top, small leaves, and matures quickly. It is very ornamental for table use. Pkt., 5c. Oz., 10c. ¼ lb., 25c.

SCARLET OLIVE-SHAPED RADISH.—A showy half-long variety of pretty shape and bunches beautifully. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

LONG VARIETIES

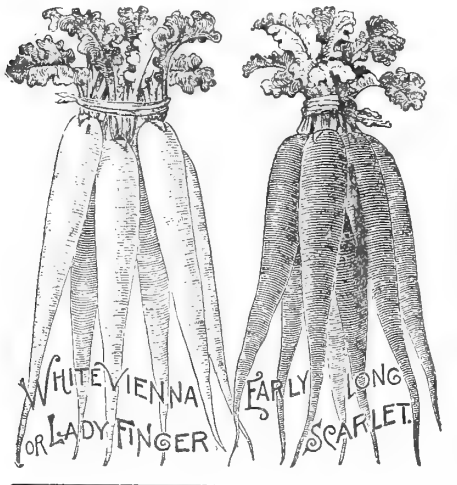
CININNATI MARKET NEW GLASS RADISH.—Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 45c. 5 lbs., 40c. lb.

WHITE VIENNA, OR LADY FINGER.—This is unquestionably the finest long white Radish. Of most handsome shape; color a beautiful snow white. It is of very rapid growth, and remarkably crisp, brittle and tender; equally desirable for the market or home garden.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

LONG SCARLET (Finest Grown).—Very attractive and sells readily. Owing to its handsome shape, brilliant color and fine qualities it commands a higher price and more ready sale than the ordinary Long Scarlet as generally sold.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c. 5 lbs., \$1.75.



WHITE VIENNA OR LADY FINGER

EARLY LONG SCARLET

CHINESE ROSE WINTER.—Remarkably fine for winter use. The best of the winter sorts.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

WHITE CHINESE WINTER, OR CELESTIAL.—An excellent white winter Radish; a good keeper.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 60c.

SUMMER VARIETIES

LARGE WHITE SUMMER, The Great Summer Radish.—This is the most popular white Radish for summer use with the gardeners around Baltimore, because of its handsome appearance and ready sale, and its well-known quality of being slow to run to seed. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 40c. 5 lbs., \$1.75.

WHITE STRASBURG.—This is becoming one of the most popular summer sorts; it is of handsome tapering shape, skin pure white; very tender. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

GIANT STUTTGART.—A splendid new variety, of excellent quality; withstands summer heat.

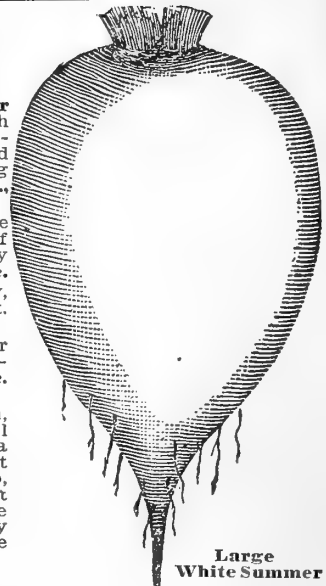
Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

CHARTIER.—A good variety for private or market garden purposes. Stands long before going to seed, and is tender and crisp. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

WHITE DELICACY.—This excellent Radish, introduced by us recently, has proved itself all that has been claimed for it. It has become a great favorite with the truckers and market gardeners around Baltimore. Succulent, crisp, delicate, smooth and clean. Among the earliest spring varieties; an improvement on the White Strasburg, which it resembles, being more evenly shaped and smaller topped; grows into full size and perfection during the hottest months.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

GOLDEN GLOBE.—An excellent summer Radish; slow to run to seed; shape globular, bright yellow color and mild flavor. Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.



Large White Summer

WINTER RADISHES

Winter Varieties

LONG BLACK SPANISH.—A large winter variety; one of the hardest, with dark green leaves, firm in texture, keeping until spring.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

LONG WHITE SPANISH (Winter).—Fine keeping quality.

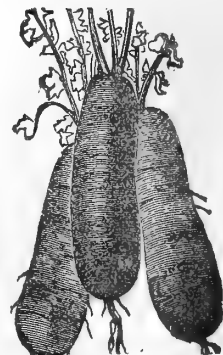
Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

ROUND WHITE SPANISH.—A good fall or winter variety.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.

ROUND BLACK SPANISH.—A fine globe-shaped Radish, very popular with the Germans, known as Rettig; good quality.

Pkt., 5c. Oz., 10c. ¼ lb., 20c. Lb., 50c.



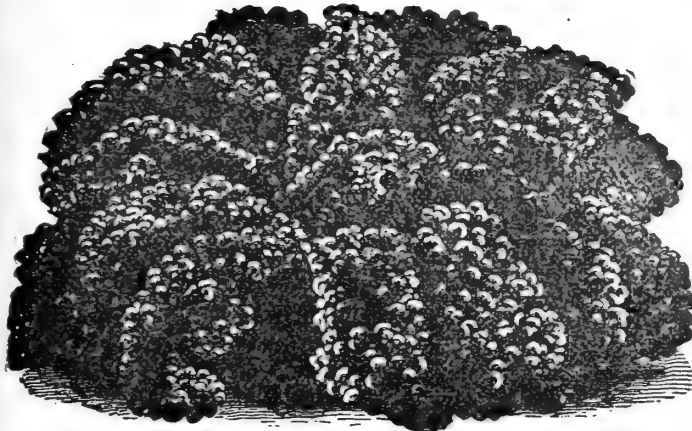
RHUBARB, or PIE PLANT

SOW in April in drills one inch deep and one foot apart. When plants are large enough, thin to ten inches apart, and cultivate. In the fall or following spring, transplant into deep, rich soil three feet apart each way.

Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.

SPINACH

All Prices of Seeds in This Catalogue Are Subject to Change Without Notice.



THIS is quite an important crop with market gardeners, and one easily managed.

For summer use, sow early in spring, in drills eight inches to one foot apart, covering the seed one inch deep. Select rich soil and manure liberally. A succession may be obtained by sowing at intervals of two weeks through the season. For very early spring use sow in August, and protect the plants through the winter by a thick covering of clean straw or some similar light covering. Spinach is used principally as greens for boiling, and is very highly esteemed for this purpose.

LARGE ROUND-LEAVED VIROFLAY.—A new sort, with very large, thick leaves.

Pkt., 5c. ¼ lb., 10c. Lb., 20c.

LONG STANDING.—Best for spring sowing, as it is very slow to seed. The leaves are large, round, unusually thick, curled and of dark green color.

Pkt., 5c. ¼ lb., 10c. Lb., 20c.

CURLED SAVOY, or BLOOMSDALE.—The leaves are fine, curled, large, thick and heavy, and are produced in great numbers.

Pkt., 5c. ¼ lb., 10c. Lb., 20c.

G. & T. CO.'S EXTRA CURLED AMERICAN GROWN SAVOY SPINACH.—This is grown especially for us, and is without exception the best type of Savoy Spinach in existence. It is beautifully curled and wrinkled, the leaves large, thick and heavy, produced in great numbers, and stands handling and transportation better than any other sort; in fact, we hardly think we could say too much about this valuable acquisition to the spinach family. Sold only in sealed bags. Pkt., 5c. ¼ lb., 15c. Lb., 35c.

VICTORIA SPINACH.—This new spinach comes to us with the highest recommendations from the growers. The foliage is heavy, the broad, dark green leaves being of the true Savoy appearance and of the finest quality; but the most remarkable feature that will make it of special value, both for market and family gardens, is the fact that it is in prime condition from two weeks to three weeks after all other varieties of spinach have run to seed.

Pkt., 5c. ¼ lb., 10c. Lb., 20c.

WRITE FOR SPECIAL PRICES IN QUANTITIES.



SQUASH

THE Squashes are all quite tender, and therefore no progress can be made in starting them until the weather becomes somewhat warm and settled. Plant in hills five feet apart each way for the bush varieties, and eight feet for the running varieties; put eight seeds to the hill, but don't allow over three to stand.

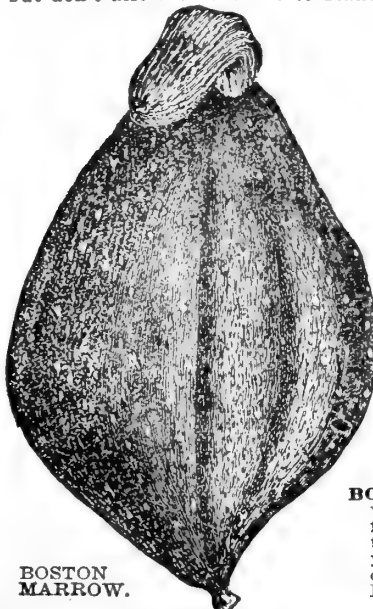


EARLY WHITE BUSH SCALLOP.—A desirable and marketable sort. Best known and most productive of all the summer sorts.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

EARLY YELLOW BUSH SCALLOP.—An early, flat, scallop-shaped variety; color yellow, flesh pale yellow and well flavored; very productive; used when young and tender.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.



BOSTON MARROW.



SUMMER CROOK NECK (Early).—Fine flavor; a desirable table sort. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

WINTER CROOK NECK.—Flesh red, fine flavor; largely grown for winter use. Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

HUBBARD.—Fine and desirable for winter use. Pkt., 5c. Oz., 15c. ¼ lb., 20c. Lb., 75c.

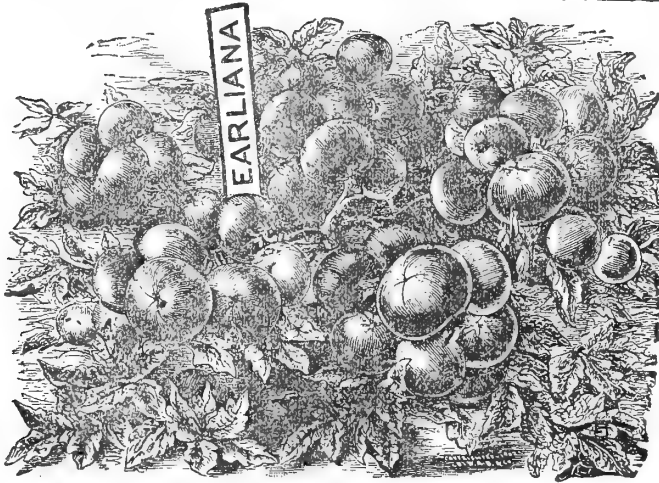
BOSTON MARROW.—A fall and winter variety, very popular in the Boston market. Of oval form, skin thin; when ripe, bright orange mottled with light cream color, flesh rich salmon yellow, fine grained, and for sweetness and excellence unsurpassed, but not as dry as the Hubbard. Fine for pies or baking.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. Lb., 50c.

TOMATO—Extra Early Red Varieties

For early fruit sow the seed in March or April, in the hotbed or in pots in a sunny exposure in the house. When the plants are about three or four inches high they should be set out four or five inches apart in another hotbed or cold frame or removed into small pots, allowing a single plant to a pot. Expose to the air as much as possible to harden, and about the middle of May set the plants in the open ground at a distance of four or five feet each way. Water freely at the time of transplanting, and shelter from the sun for a few days until the plants are established. Sufficient plants for a small garden may be had by sowing a few seeds in a shallow box or flower pot and placing in a sunny window in the house. Cultivate thoroughly as long as the vines will permit.

Tomatoes will admit of training to stakes or trellis of various kinds, and the fruit is very much improved both in appearance and quality. This mode of cultivation is now quite common among gardeners who grow for early market. The usual method is to set one strong plant to a stake, using stakes five to seven feet in height, tying the plant up with wool or other strong, soft twine, pruning out quite freely as the vines advance in growth. By adopting this method the plants may be set much closer than in the ordinary way.



SPARKS' EARLIANA.—The earliest bright red Tomato; very large, smooth color, bright red; solid and excellent for slicing. The plants are of moderate growth, well set with fruits, nearly all of which ripen extremely early in the season. Grows in clusters; of medium size; smooth, solid, solid center, small seed cells, slightly acid. Pkts., 5c. and 10c. Oz., 30c. ¼ lb., 85c. Lb., \$3.00.

EXTRA EARLY PURPLE VARIETIES

BEAUTY.—For early market and shipping this cannot be excelled, because of its solidity and toughness of skin. Color is a rich, glossy crimson, with a slight tinge of purple. It is well known and very largely used by our gardeners. Pkts., 5c. and 10c. Oz., 28c. ¼ lb., 40c. Lb., \$1.50.

MAGNUS.—A fine medium crop variety; has Acme color; heavy; solid; fruit is set in clusters; heavy cropper and very robust. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 60c.

DWARF CHAMPION.—Dwarf, upright growth; smooth purple fruit. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 60c. Lb., \$2.25.

PRIZETAKER.—Early; large; handsome; deep crimson; slight tinge of purple. Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.25.

MEDIUM EARLY VARIETIES

PRIZEWINNER.—Purple; early; prince of market Tomatoes; color resembles Beauty, but larger; solid; one of the best keepers and shippers; smooth; well adapted for late crop. Pkt., 10c. Oz., 20c. ¼ lb., 60c. Lb., \$1.75.

PONDEROSA.—Remarkable for size; fruits heavy; deep red; flesh thick, solid and fine quality. Pkt., 10c. Oz., 30c. ¼ lb., \$1.60.

ACME.—Purple; early; medium; pink-purplish; slightly oval. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

CRIMSON CUSHION.—Resembles Ponderosa in shape and size; color deep red. Pkt., 10c. Oz., 35c. ¼ lb., 75c.

BUCKEYE STATE.—Purple; productive, but not very solid; large, smooth. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

GOLDEN QUEEN, or SUNRISE.—Pkts., 5c. and 10c. Oz., 25c. ¼ lb., 75c.

LORILLARD.—Best for greenhouse forcing; bright, glossy red; very smooth. Pkt., 10c.

SMALL FRUITED VARIETIES

PEAR-SHAPED RED.—Pkts., 5c. and 10c. Oz., 25c. ¼ lb., 75c.

PEAR-SHAPED YELLOW.—Used for preserves and pickles. Pkts., 5c. and 10c. Oz., 25c. ¼ lb., 75c.

YELLOW PLUM.—Color bright yellow; excellent for preserving. Pkts., 5c. Oz., 25c. ¼ lb., 75c.

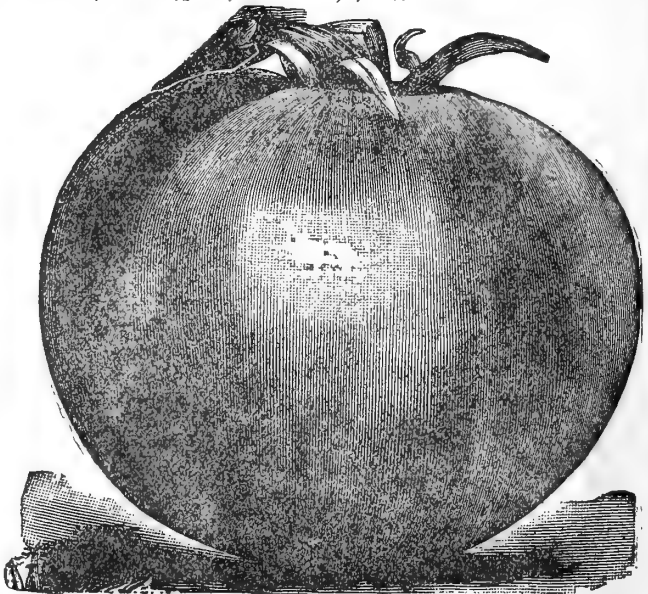
CHALK'S EARLY JEWEL.—Deep-fruited and solid. The growth is very compact. Fruit of uniformly good size; very solid; brightest scarlet, ripening up to the stem without cracks or green core; sweet flavor. Pkts., 5c. and 10c. Oz., 30c. ¼ lb., 85c. Lb., \$3.00.

MAULE'S EARLIEST.—New; very fine; extra early; very prolific; fruits large size; excellent for shipping. Pkts., 5c. and 10c. Oz., 25c. ¼ lb., 75c.

EARLY MICHIGAN.—Vines large, with large, dark green leaves, vigorous and wonderfully productive; under high culture one of the heaviest croppers; fruit medium to large size; unlike most varieties, grows larger as the season advances; perfectly smooth, solid, but without core; deep rich red color; of excellent flavor. Its first fruits are very early, but the vines continue to bear for a long time. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 65c. Lb., \$2.00.

NEW SUCCESS.—A magnificent new scarlet fruited Tomato of finest quality, handsome appearance, large size and great productiveness. The vines are of strong, vigorous growth, with abundant foliage; fruit set in clusters; color brightest scarlet; perfectly smooth and free from cracks; the interior is very meaty, of fine flavor. It ripens with the second earlies and yields abundantly throughout the season. The handsome color, even size and great solidity of Success makes it an excellent market sort. It is well adapted also to canners' use by reason of rich deep red color, solidity of flesh and desirable form for rapid peeling without waste. Pkts., 5c. and 10c. Oz., 25c. ¼ lb., 75c. Lb., \$2.50.

ATLANTIC PRIZE (Select Stock).—An excellent extra early red Tomato, and while it does not run as regularly smooth as the Paragon, it ripens very evenly. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 40c. Lb., \$1.50.



EXTRA EARLY RUBY

This new variety came to our notice last season, and after giving it a thorough test we consider it the best all-round early Tomato in existence. While not as early as the Sparks' Earliana by a week or ten days, it is far superior in quality, size, shape, flavor and productiveness. In color, ruby red, nearly globe-shaped; solid flesh throughout, and with very few seeds and free from acidity; it makes a splendid main crop variety; a great keeper and shipper. We have secured a limited supply of the seed, and will only put them up in 10c. packages, ½ ounces, ounces, ¼ pounds and pounds to enable it to be disseminated among a greater number of planters. The extremely large returns will fully justify the progressive trucker in trying a small quantity.

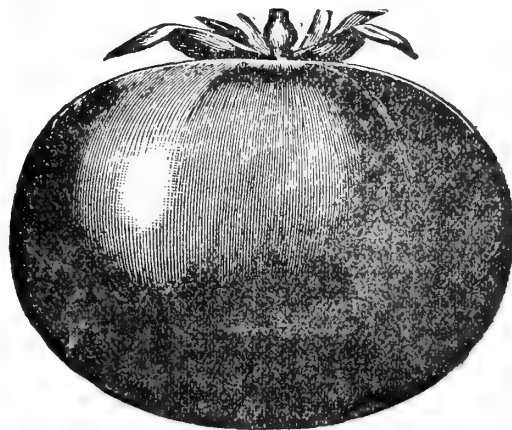
Pkg., 10c. Oz., 50c. ¼ lb., \$1.25. Lb., \$4.00.

TOMATO—Main Crop Varieties



THE NEW STONE TOMATO.—Ripens for main crop; is very large and of bright scarlet color; very smooth, with occasionally a specimen very slightly octagon-shaped, ripening evenly to the stem without a crack; exceedingly solid and firm-fleshed (as its name indicates). It is an excellent shipper; fine for canning; a good keeper; not subject to rot.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.



NEW QUEEN TOMATO.—Fruit somewhat resembles Paragon in appearance. This sort is well known and a favorite among canners, but it is not as deep red in color nor as weighty and solid as our World's Fair. Pkts., 5c. and 10c. Oz., 15c. ¼ lb., 40c. Lb., \$1.50.

BRINTON'S BEST.—One of the leading sorts for second early and late use; the fruit is large, handsome, and a splendid keeper. A great favorite with canners and truckers.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

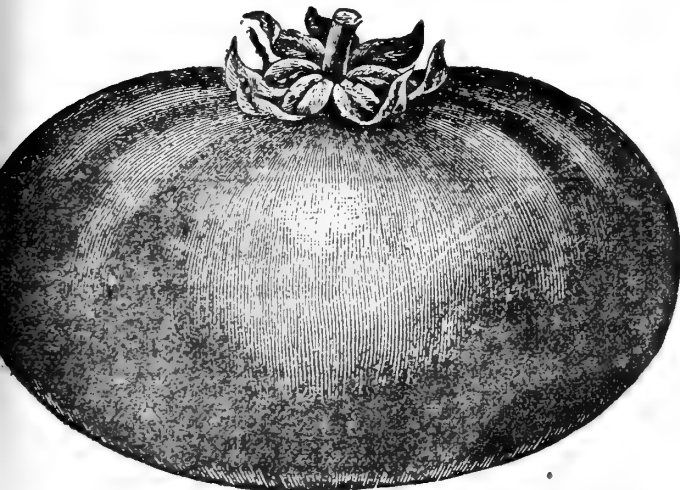
LIVINGSTON'S FAVORITE.—Bright red, smooth Tomato of good size.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

PARAGON.—Well-known standard bright red Tomato. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.50.

ROYAL RED.—New; resembles Favorite in form and color; good main crop variety.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 50c. Lb., \$1.75.

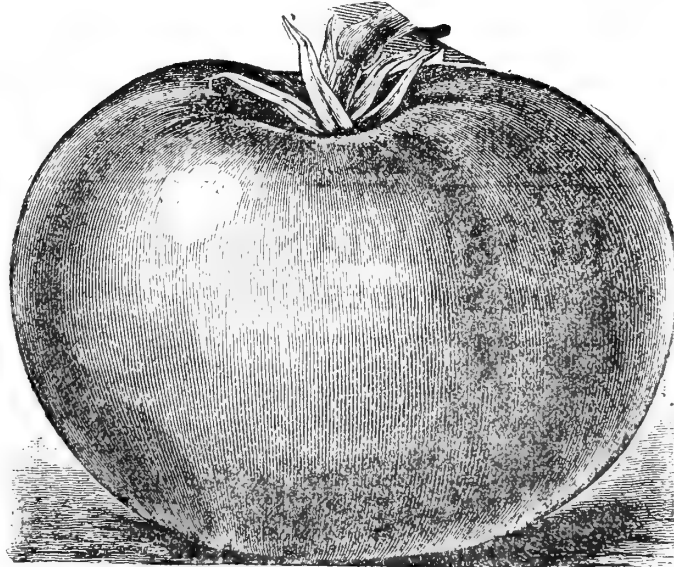


Griffith & Turner Co.'s World's Fair

The great canner. The six great points of this great canner—solidity, symmetry, handsome, bright red, ripens uniform, free from rot. Its shipping and keeping qualities are unexcelled.

The planters now demand this great Tomato, notwithstanding the fact that there are many very much newer varieties. Yet it has been so successful that it is preferred above all others. The fruit is particularly solid and of fine flavor, good size, smooth, and certainly very attractive.

Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.



MATCHLESS.—The color is rich red. The skin is so tough that it makes a splendid keeper and shipper, and is less liable to crack in wet weather than any other large Tomato. Unsurpassed for market or table; strong grower and very productive, bearing with undiminished vigor until frost. The fruit is free from core and the seed spaces comparatively small. Pkts., 5c. and 10c. Oz., 20c. ¼ lb., 60c. Lb., \$2.00.

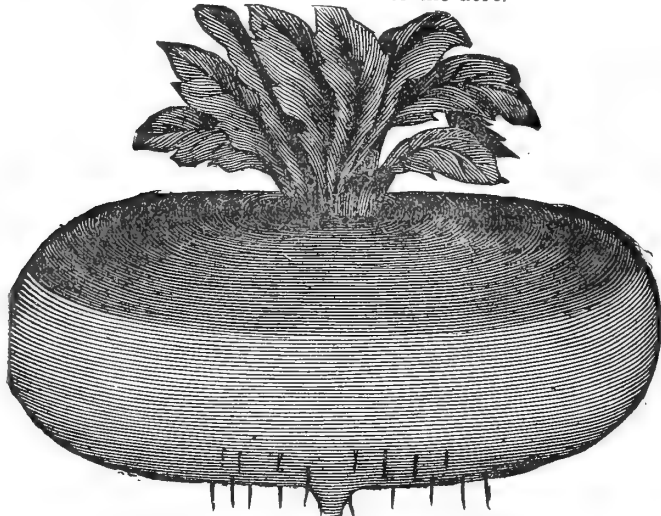
HERBS—Sow in spring in shallow drills, one foot apart, and when well up thin out or transplant to a proper distance.

	Pkts.	Oz.	¼ lb.	Lb.
MARJORAM	5c.	15c.	40c.	\$1.25
ANISE	5c.	10c.	25c.	
BASIL	5c., 10c.	15c.		
BENE, use medicinally	5c.	15c.		
BORAGE, excellent for bees	5c.	15c.	40c.	1.25
CARAWAY	5c.	10c.	25c.	
CHEWIL	5c.	25c.		
CHICKORY	5c.	10c.	25c.	1.00

	Pkts.	Oz.	¼ lb.	Lb.
CORIANDER	5c.	10c.	25c.	\$1.00
DILL	5c.	10c.	25c.	.70
LAVENDER	5c.	15c.	40c.	1.25
FENNEL (Sweet)	5c.	10c.	25c.	
ROSEMARY, an aromatic herb	5c.	35c.	50c.	1.75
SAGE (American)	5c., 10c.	25c.	40c.	1.50
SUMMER SAVORY	5c.	10c.	40c.	1.25
THYME (broad-leaved English)	5c., 10c.	25c.	75c.	

TURNIP

FOR early use, sow the small sorts as soon as the ground can be worked in the spring, in drills 14 inches apart, the Rutabagas 30 inches. As the seed is very fine, it should be covered but slightly, soil and manure with plaster and ashes or phosphates. Should the young plants be troubled with insects, a sprinkling of slug shot will be beneficial. For fall and winter use the early kinds should be sown, from the middle of July to the middle of August, and the Rutabagas from the middle of June to the first of July, using from one to one and a half pounds of seed to the acre.



WHITE AND PURPLE TOP STRAP-LEAF.

EARLY RED TOP FLAT.—Fine, sweet, mild; rapid grower; very early and popular.

Pkt., 5c. ¼ lb., 10c. ½ lb., 15c. Lb., 30c.

EXTRA EARLY PURPLE TOP MILAN.—The earliest and handsomest Flat Turnip in cultivation; none equal to it for spring sowing.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. ½ lb., 25c. Lb., 50c.

WHITE FLAT (Strap Leaf).—Differs from Red Top only in color.

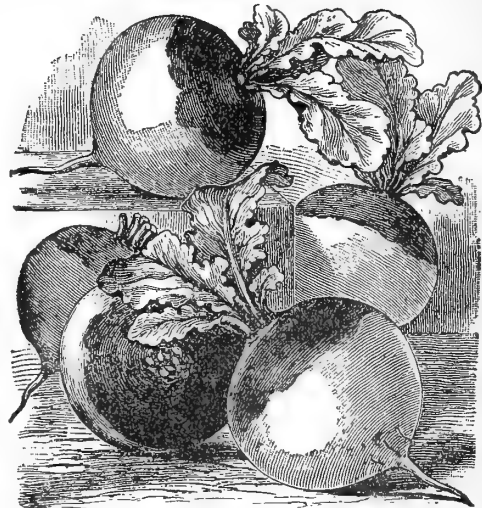
Pkt., 5c. ¼ lb., 10c. ½ lb., 15c. Lb., 30c.

EARLY WHITE EGG.—A new variety of rapid growth; egg-shaped and white, as its name indicates.

Pkt., 5c. Oz., 10c. ¼ lb., 15c. ½ lb., 25c. Lb., 50c.

COW HORN (Large Croppers).—This variety is pure white, excepting a dash of green at the crown, and in shape is long, like the carrot.

Oz., 5c. ¼ lb., 10c. ½ lb., 15c. Lb., 25c.



RED TOP WHITE GLOBE.

LARGE EARLY RED TOP GLOBE.—A variety of recent introduction. Of large size, rapid growth, unusually attractive. Approved and admired by all who have seen it. A very much heavier producer than either of the Flat varieties and quite as early as the Flat Red Top. Very few market gardeners will have any other kind. Pkt., 5c. ¼ lb., 10c. ½ lb., 15c. Lb., 30c.

YELLOW ABERDEEN, or SCOTCH YELLOW.—This is a highly approved Cattle Turnip, attaining a large size. It is solid, nutritious, a good keeper, and in every respect reliable.

Pkt., 5c. ¼ lb., 10c. ½ lb., 15c. Lb., 30c.

LARGE AMBER, or YELLOW GLOBE.—Grows to a large size; flesh yellow, firm and fine-grained. Excellent for either table use or feeding stock.

Pkt., 5c. ¼ lb., 10c. ½ lb., 15c. Lb., 30c.

SEVEN TOP.—For greens and salads. Used largely in the Southern States.

Pkt., 5c. ¼ lb., 10c. ½ lb., 15c. Lb., 30c.

SOUTHERN PRIZE.—True strain of the favorite Turnip for greens in Virginia and the Carolinas. Valued also for its bulk.

Oz., 5c. ¼ lb., 15c. Lb., 35c.

RUTABAGAS OR SWEDES

THE Swede Turnips, or Rutabagas, grow much larger in size, and are of greater value for stock feeding than ordinary turnips. Every farmer and stock-raiser should grow Rutabagas and Stock Beets for winter feeding.

GRIFFITH & TURNER CO.'S IMPROVED PURPLE TOP.

Yellow fleshed. A standard field variety for stock and fine for family use. This splendid Swede is the hardiest, most productive and most nutritious variety in cultivation.

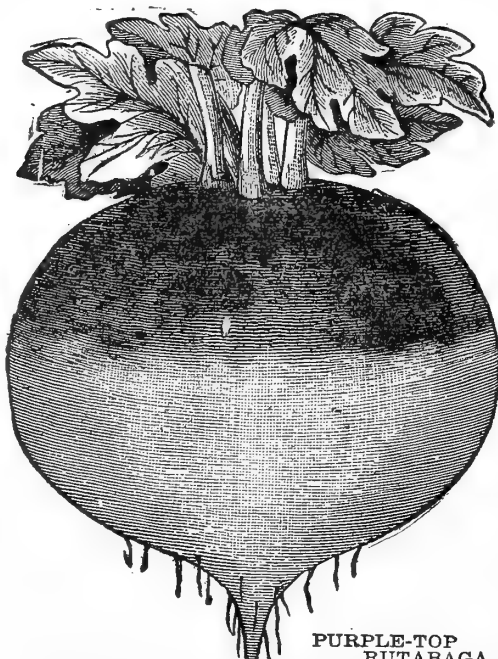
Pkt., 5c. ¼ lb., 15c. Lb., 35c.

YELLOW RUTABAGAS.—An old standard sort of good quality.

Pkt., 5c. ¼ lb., 10c. ½ lb., 15c. Lb., 25c.

G. & T. CO.'S WHITE ROCK.—Though sometimes called a turnip, this is more like a rutabagas. The root is large, both skin and flesh very white, and is one of the best varieties we have for table use. An excellent keeper and a desirable sort for market gardeners.

Pkt., 5c. ¼ lb., 10c. ½ lb., 15c. Lb., 40c.



PURPLE-TOP
RUTABAGA.

Vegetable Roots

ASPARAGUS ROOTS.

A saving of one to two years is effected by planting roots. A bed 12x40 feet, requiring about 100 roots, should give a sufficient supply for an ordinary family; 7260 roots will plant an acre. Select good, loamy soil, plow deep, put in good quantity of manure and 100 pounds of kainit to 1000 square feet of bed. Incorporate thoroughly, make a trench 8 inches deep, set plants 9 inches apart. In field culture rows are placed 4 feet apart.

Barr's Mammoth.—Per 100, 75c. Per 1000, \$5.50.

Palmetto.—Per 100, 70c. Per 1000, \$5.00.

Colossal.—Per 100, 70c. Per 1000, \$4.50.

Mammoth White.—Per 100, 75c. Per 1000, \$5.50.

Extra size roots, 50c. per 1000 additional to above prices.

ARTICHOKES (Jerusalem).—Pkt., \$1.00. Bus., \$2.50. For further information see page 2.

HORSE RADISH ROOTS.—Doz., 20c. Per 100, 75c. Per 1000, \$6.00.

RHUBARB ROOTS.—15c. each. Doz., \$1.50.

IF TURNIP SEED IS WANTED BY MAIL, ADD 9c. PER POUND FOR POSTAGE.

MAINE OR NORTHERN GROWN SEED POTATOES

The soil best suited to the Potato is a rich, sandy loam; but it seems to thrive in almost any soil or climate. The Potato being a gross feeder, requires a liberal application of manure. If stable manure is to be used, it should be well rotted, and not allowed to come in contact with the tubers. On no other crop are the results from the use of phosphates so manifest as on the Potato. Almost invariably the tubers are smoother, brighter and freer from rust and the destructive influence of wire worms. **GRIFFITH & TURNER CO.'S PLANT FOOD** is especially adapted for Potatoes, as it promotes growth and at the same time prevents disease. Plant as early in the spring as the ground can be thoroughly worked in rows three feet apart and one foot in the rows, covering in light, warm soil about four inches, and in cold, wet ground three inches deep; draw the earth to the plants as they advance in growth. The soil should be constantly stirred through the season to prevent the surface from baking.



G. & T. CO.'S EXTRA EARLY PRIZE.—This Potato is in all respects a very superior early sort. It proved to be the earliest and most productive of any we tried; also found its eating qualities first-class. We consider it the best early Potato on the market today. Peck, 60c. Bushel, \$1.75. Barrel, \$4.75.

BLISS TRIUMPH.—This beautiful variety combines the wonderful productiveness of the Peerless with all the good qualities of the Early Rose; is much more productive and matures its crop at least a week in advance of the Early Rose. Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.75.

MAINE, or HOULTON EARLY ROSE.—The Early Rose led the list for over 30 years, and is today one of the best early market Potatoes. Our stock of this is grown on new land, near Houlton, Maine; is rugged and pure, and produces as good crops as those which made the Early Rose famous in its early years. Remember that this stock is not to be confounded with the old run-out Rose, grown in other sections. Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.50.

EARLY OHIO.—This is very early and productive, of fine quality and an excellent keeper. Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.75.

EARLY BOVEE.—One of the earliest varieties; good size, very smooth; uniform, perfect shape; eyes shallow; light skin and white flesh. Cooks dry and floury; of superb quality; a great yielder and healthy grower. Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.50.

CROWN JEWEL.—Very early and prolific; skin pinkish white. One of the best for early market. It is planted very largely in this vicinity and the South. Peck, 50c. Bushel, \$1.50. Barrel Sack, \$4.50.

WHITE BLISS TRIUMPH, or PRIDE OF THE SOUTH.—Extra early round white; identical with the Red Bliss, only different in color. A very fine variety for early market or family garden. Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.50.

BEAUTY OF HEBRON.—Very rapid and vigorous grower, ripening as early as Early Rose, which it resembles, but frequently exceeds in productiveness and excellence for table use, either baked or boiled. Peck, 50c. Bushel, \$1.50. Barrel Sack, \$4.50.

EARLY PURITAN.—A distinct and early variety; both skin and flesh white; quality superb, dry and floury; immense cropper. Fine for market gardeners. Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.50.

EARLY HARVEST.—This beautiful new early Potato is a heavy yielder for an early variety; good size, nearly white. A good one for the market garden. Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.50.

G. & T. CO.'S BOUNTIFUL.—The finest middle crop variety yet introduced. Before putting it on the market we have given it a thorough test, and are convinced of its superior qualities. A heavy cropper, yielding large, smooth, handsome tubers. Peck, 60c. Bushel, \$1.75. Barrel Sack, \$4.50.

EARLY NORTHER.—This superb Potato originated at Caribou, Maine. It resembles the Early Rose in shape and color, matures earlier than the Rose, and is much more productive. Under our own observation the past season it yielded more than the Rose, matured earlier, and was in all respects superior. Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.75.

NEW YORK EARLY ROSE.—A leading variety for earliness, quality and productiveness. Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.50.

IRISH COBBLER (A New Sort).—Very productive, matures early; shape chunky, eyes strong and deeply set, skin netted, flesh white, quality very superior. The writer's attention was called to this variety while on a tour of inspection, and we concluded to place it in our collection, and find after two years' experience that it is a very superior variety. Don't fail to get it. Peck, 65c. Bushel, \$1.75. Barrel Sack, \$4.75.

PROSPERITY.—A middle-crop variety, one of the handsomest large Potatoes ever produced. The yield is immense, and even under unfavorable circumstances can be relied on; flesh very white; cooks dry and mealy. Peck, 60c. Bushel, \$1.50. Barrel Sack, \$4.00.

RURAL NEW YORKER, No. 2.—A valuable variety of large size, very smooth and a great cropper; in quality unexcelled. This variety is yearly becoming more popular as the best late long keeper, and we recommend it highly. Peck, 50c. Bushel, \$1.50. Barrel Sack, \$4.00.

BURBANK.—This is an old and reliable variety, and is a No. 1 for a late, large-yielding, good-keeping Potato, and for table use, after January 1, is one of the best. Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.50.

NEW QUEEN.—A grand Potato of recent introduction, closely resembling Beauty of Hebron in appearance, color, size and shape, but is 7 to 10 days earlier and a heavy yielder. Our seed of this variety comes from Maine, where it originated, and is pure and true to name. Peck, 60c. Bushel, \$1.75. Barrel Sack, \$4.50.

GREEN MOUNTAIN.—A fine late sort. Peck, 50c. Bushel, \$1.75. Barrel Sack, \$4.00.

Sweet Potatoes

CHOICE JERSEY SWEETS AT MARKET PRICES DURING SEASON. WRITE FOR QUOTATIONS.

SECOND CROP SOUTHERN GROWN SEED POTATOES

SINCE we have been advertising the Second Crop Seed we often have been asked what it signified, and for the benefit of those who do not know we will state that they are product of the first planting in the spring, planted again as soon as dug, and the result from that planting stored away in the fall for next season's use.

The advantage derived from second seed over first crop is that they do not sprout or shrivel or lose any of their vigor through the winter, having been checked by frost before maturity; they lie dormant, ready to grow vigorously when planted. They rarely send up more than one sprout; this may divide into several branches. The consequence is that all the growth goes into the tubers, which grow to full marketable size 12 to 15 days earlier than ordinary seed.

The results from the planting of this seed have been so remarkable that our sales in consequence have grown much beyond our expectations.

The following varieties are grown from first crop Northern stock:

CROWN JEWEL.—This is a seedling of the Early Ohio. Skin white, with a flesh tint; meat white and floury, cooking evenly through. A very early bearer, and its keeping qualities are equal to the best. Crop failed.

EARLY ROSE.—Crop failed.

EARLY PURITAN.—A splendid early sort; fine, white and prolific, producing large crops of handsome, smooth tubers. Crop failed.

Potato prices are subject to change without notice. Special prices quoted on application. Owing to the high price of barrels we are shipping potatoes in barrel sacks.

SEED WHEAT AND RYE

We can offer choice stocks of Seed Wheat and Rye, re-cleaned, and at reasonable prices. Write us August 1 for special prices for fall sowing.

SEED OATS

For spring sowing. 32 pounds to the bushel. Extra heavy fancy White Oats. Ask for prices.

WINTER TURF OATS

Perfectly hardy in the Southern and Middle States, standing the winter nearly as well as wheat. Yields, on good land, from 50 to 70 bushels to the acre, of fine, heavy grain, weighing from 30 to 40 pounds to the measured bushel. Furnishes excellent fall, winter and early spring grazing, without injury to the grain crop. Write for prices 1st of August.

SEED BUCKWHEAT

JAPANESE.—The best sort. The plants are large and vigorous, maturing their seed early and resisting drought and blight remarkably well, while the grain is much larger and at the same time has a thinner hull than the common or the Silver Hull. Owing to its branching character, only one-half the seed is required per acre, while the straw is much stiffer and stands up better. We recommend this especially for well-drained or sandy land and the dry climate of the Western plains. Peck, 50c. Bushel, \$1.50.

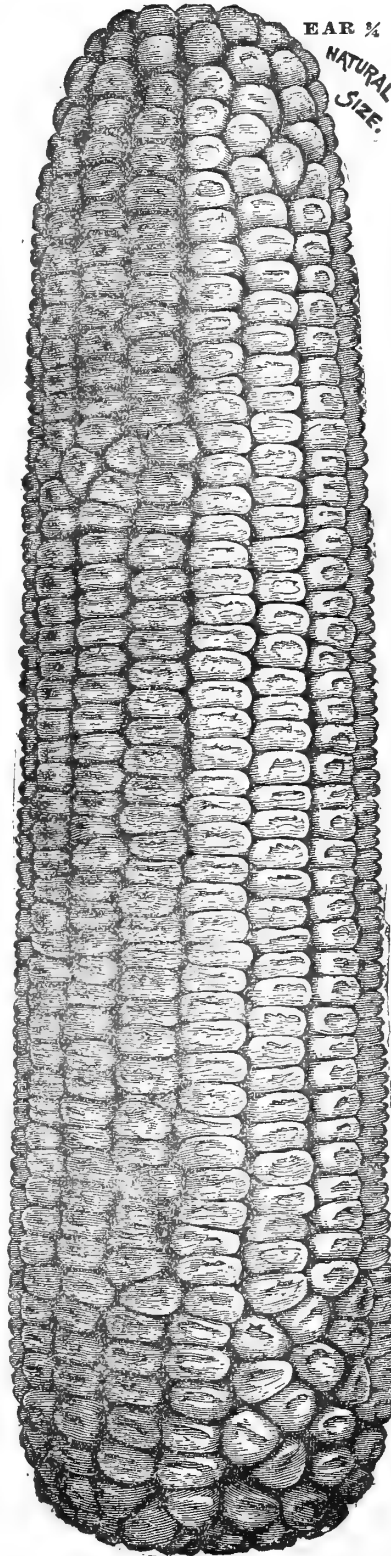
SILVER HULL.—Same price as above.

BARLEY

BEARDLESS SPRING BARLEY.—Sow as soon as frost is out of the ground, the earlier the better. Being beardless, it handles as easily as oats and makes a stronger feed. Write for prices.

FALL BARLEY.—Sow about 1st of September before sowing wheat, in order to get best results. Write for prices.

YELLOW CORN



GRIFFITH & TURNER CO.'S CHESTNUT GROVE YELLOW CORN

CHESTNUT GROVE YELLOW CORN.—This corn was grown on Chestnut Grove Farm, Baltimore county, and the average yield from the whole crop was 20 1-16 barrels to the acre. The ears are large, deep, medium-sized grain, and of beautiful color. Qt., 15c. Peck, 75c. Bus., \$2.25.

G. & T. CO.'S MAMMOTH YELLOW CORN.—The largest, most prolific yellow corn in existence; the ears attain an average length from 12 to 15 inches, and make a crop in 110 to 120 days, growing medium-sized fodder; very deep grain. Qt., 15c. Peck, 75c. Bus., \$2.25.

IMPROVED MARYLAND YELLOW DENT.—OUR MARYLAND DENT CORN has taken first premium over all other field corn wherever exhibited. The grains are unusually deep, ears large, stalks grow from 7 to 10 feet high, does not exhaust soil so much, and will stand drought better than a large stalk, and will yield 5 to 10 bushels per acre more than any other corn generally planted. Qt., 15c. Peck, 60c. Bushel, \$2.00.

IMPROVED EARLY LEAMING

Bred and tested for 10 years. Pedigree stock. An early selected variety of yellow corn; small grain, weighty and productive. Highly esteemed in Maryland and Pennsylvania. One of the earliest varieties of yellow corn in cultivation. Qt., 15c. Pk., 60c. Bus., \$2.25.

G. & T. CO.'S IMPROVED GOLDEN BEAUTY.—A large, broad-grained yellow corn, with ears of perfect shape and small cob. The richness of color and the quality of grain make it a very superior variety. Qt., 15c. Peck, 60c. Bus., \$2.25.

90-DAY YELLOW.—This is an excellent quick-growing variety. May be planted after peas are taken off, and make a good crop. Largely used by truckers around Baltimore. Qt., 15c. Peck, 60c. Bus., \$2.25.

POP CORN.—The best kind for popping. Lb., 10c. 3 lbs., 25c. By mail, 20c. per lb.

POP CORN POPPERS.—15c. each.

WHITE CORN

G. & T. CO.'S IMPROVED MARYLAND WHITE DENT CORN.—After years of careful selection we have secured this improved White Field Corn; grows good-sized ears and makes splendid meal. Produces better crops on average land than most any other variety. Qt., 15c. Peck, 60c. Bus., \$2.00.

BEST TWIN EAR.—The large fodder produced by this variety makes it a fine ensilage corn. Produces two fully developed ears to the stalk. Qt., 15c. Peck, 60c. Bus., \$2.00.

SOUTHERN SNOWFLAKE.—A well-known and very popular corn through the South. Suitable for meal or feeding purposes; the best white corn for poor land. Qt., 15c. Peck, 60c. Bus., \$2.00.

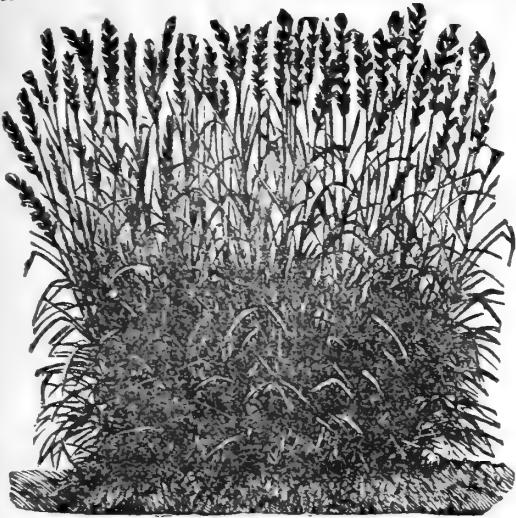
90-DAY CORN (Red Cob).—This is an elegant corn for truckers and market gardeners, as it is as good a seller as green corn. Is suitable for either early or late crop. Qt., 15c. Peck, 60c. Bus., \$2.00.

HICKORY KING WHITE CORN.—Produces very large, broad, flat, white dent grains, which are closely placed on a very slender cob. Qt., 15c. Peck, 60c. Bus., \$2.00.

WHITE ENSILAGE CORN.—Specially adapted for ensilage. Bus., \$1.75.

MAMMOTH YELLOW ENSILAGE CORN.—Especially adapted for ensilage, as it grows large fodder and blades; preferred by many to the white. Qt., 15c. Peck, 60c. Bus., \$2.00.

OUR SPECIAL GRASS MIXTURE FOR HAY AND PERMANENT PASTURES



ITALIAN RYE GRASS.

ITALIAN RYE GRASS.—Is an annual, and should be sown every year at the rate of fifty pounds per acre. It can be sown during August, September or October. It should be mown as early as the blossoms appear, or the hay will not be so good, and it can be cut every month from early spring if the soil and weather are suitable. **Bus., 20 lbs. Lb., 15c. 10 lbs., \$1.00. Per 100 lbs., \$9.00.**

CRESTED DOG'S TAIL (Cynosurus cristatus).—Should enter in moderate quantity in permanent pasture mixtures, and in larger quantities for lawns, as it possesses in a marked degree all the desirable features of a good lawn grass. **21 lbs. to bus. Lb., 40c. 10 lbs., \$3.50.**



ENGLISH RYE GRASS.

ENGLISH RYE GRASS (Lolium perenne).—This makes a quick growth very early in spring, and is adapted for cool, moist locations. **24 lbs. to the bushel; 60 lbs. to the acre.**

Lb., 15c. Bus., \$2.00

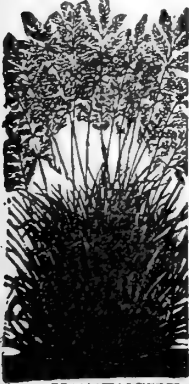
WOOD MEADOW (Poa nemoralis).—An early nutritive grass; thrives better under trees than other grasses. Is also an excellent pasture grass. **Lb., 60c. 10 lbs., \$5.50. 14 lbs. to bus.**

RHODE ISLAND BENT GRASS (Agrotis canina).—A very fine variety for lawns. **Lb., 30c.**

SWEET VERNAL (Anthoxanthum odoratum).—True perennial; emits an agreeable odor, which it imparts to the hay. **Lb., 65c.**

KENTUCKY BLUE GRASS.—It is rather sensitive to heat, but not so to cold weather, and on this account does its best in the fall, winter and spring. It grows slowly at first, forms a very compact turf, making a fine pastureage when once established. It is much the best, however, to combine other grasses with it, for either lawn or pastureage. Sow in the spring or fall. **Fancy, triple-cleaned. Per lb., 20c. Bus. of 14 lbs., \$2.25.**

NOTICE.—Beware of cheap Canada Blue Grass, but if you want it we will supply same on short notice at low prices.



KENTUCKY BLUE GRASS.

RED TOP, OR HERD'S GRASS (Agrotis vulgaris).—This grass makes excellent pastureage and good crop of fine quality hay, and succeeds on a greater variety of soils than any other grass in general use, giving very good results on light soils and the very best results on heavier, moist or low ground soils. It is rather late in starting in the spring and matures its crop at the same time as Timothy. Is excellently adapted for seeding with Timothy for hay, and furnishes excellent pastureage afterwards. When it gets well established it will gradually supplant other grasses. The grades of seed usually sold are:

CHAFF RED TOP.—Seed in chaff.

EXTRA CLEANED UNHULLED RED TOP.—Seed in hull, but free of chaff and impurities.

FANCY CLEANED RED TOP.—Hulled seed, free from all impurities. We would advise our customers to sow the Extra Cleaned Unhulled or Fancy Cleaned Seed.

Chaff Red Top.—Sow 4 to 6 bushels to the acre, 10 lbs. to bushel. **Price, 35c. bus.**

Extra Cleaned Unhulled Red Top.—Sow 2 to 3 bushels to the acre, 10 lbs. to the bushel. **Price, 1b., 15c.; bus., \$1.00; 100 lbs., 10c. lb.**

Fancy Cleaned Red Top.—Sow 12 to 15 lbs. to the acre. **Price, 20c. lb.; \$17 per 100 lbs.; bushel of 32 lbs., \$5.50.**

TALL MEADOW OAT GRASS (Avena elatior).—Most valuable for pastures on account of its early and luxuriant growth; it produces an abundant supply of foliage, which is relished by cattle, early and late. For hay it may be cut twice a year, and for green soiling it may be cut four or five times in favorable seasons. It is very hardy and withstands extreme drought and heat and cold. Height, 2 to 4 feet. **100 pounds to the acre. (10 pounds to bushel.) Lb., 25c. 100 lbs., \$22.00.**



RED TOP GRASS.

CREeping BENT GRASS (Agrotis stolonifera).—Excellent for lawns; succeeds well in all conditions; makes a low, velvety growth. **Lb., 25c. Bus. (20 lbs.), \$4.25.**

MEADOW FOXTAIL (Alopecurus pratensis).—Closely resembles Timothy in growth, but has a soft, feathery head. It is a valuable pasture grass by reason of its rapid growth. About 7 pounds to the bushel; 3 bushels to the acre. **Lb., 50c. Bushel, \$3.00.**

SHEEP FESCUE (Festuca ovina).—It is a densely tufted perennial grass for dry, sandy and rocky soil where scarcely any other species will grow. It roots deeply, and forms a dense, short tuft, suitable for lawns and pleasure grounds where the soil is sandy. It affords wholesome food for all cattle, especially sheep. Specially recommended for pastureage mixtures. Sow about 30 pounds per acre. **Lb., 25c. Bus., of 12 lbs., \$2.00.**

OUR PERMANENT

HAY AND PASTURE GRASS

IS prepared especially to meet the demand for a mixture that will be desirable either for cutting for hay or for use for pasture, and contains such grasses as are best adapted for these purposes. In ordering, please state whether you want a mixture for upland or low ground.

MIXTURE FOR UPLAND.—Fourteen pounds to the bushel, three bushels to the acre.

Per bus., \$2.50. 10 bus. for \$23.50.

MIXTURE FOR LOWLAND.—Fourteen pounds to the bushel, three bushels to the acre.



MEADOW FESCUE.

Per bus., \$2.50. 10 bus. for \$23.50.

MEADOW FESCUE, RANDALL, OR ENGLISH BLUE GRASS (Festuca pratensis).—This should be very much more largely used than at present. It makes a very good hay and pastureage grass, and is particularly valuable for fall and winter pastureage, as it remains green throughout the winter. It is very popular in Southwest Virginia, East Tennessee and the Mountainous districts of North Carolina, where it is very highly appreciated as a large-yielding, nutritious pastureage and hay grass. It succeeds well in nearly all sections of the South, and should be very largely used in pastureage and hay mixtures, being specially suitable for sowing with Red Top and Timothy for hay, or with these and Orchard and Tall Meadow Oat for permanent pastureage. Sow either in the spring or fall at the rate of 50 pounds to the acre. Thrives better under trees than other grasses. **22 lbs. to bus. Lb., 20c. 100 lbs., \$15.00.**

GRASSES AND CLOVERS
CONTINUED.

MILLET.

GERMAN, OR GOLDEN MILLET.

An improved variety, medium early, growing 3 to 5 feet high. The heads are closely condensed, though the spikes are very numerous. This is the best and most productive millet to grow. Price, Lb., 10c. Pk., 50c. Bus. of 50 lbs., \$1.50.

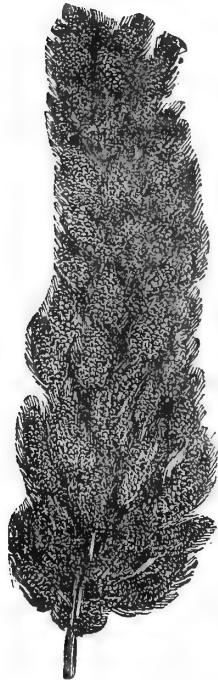
HUNGARIAN MILLET (*Panicum germanicum*)—Early and productive, growing 2 to 3 feet high, with an abundance of foliage and slender heads. Price, Lb., 10c. Pk., 50c. Bus. of 48 lbs., \$1.50.

COMMON MILLET.—Weight, per bus., 50 pounds. Price, Lb., 5c. Pk., 40c. Bushel of 45 lbs., \$1.25.

IMPORTANT.—It does not pay the farmer to buy cheap Grass Seeds, as it is liable to be either old seed, or full of weeds.

TIMOTHY (*Phleum pratense*).

This makes one of the most popular, nutritious and salable of hay grasses. It is best adapted for sowing on clay or heavy loams, low lands or in mountainous districts, although it will do well on any good stiff loamy soils, provided moisture is abundant. It does not succeed nearly as well, however, as Orchard, Tall Meadow Oat or Herd's Grass on soils of a sandy or light loamy texture, and is not of as much value for pasturage as other grasses. The stand of Timothy will also be injured if grazed or cut too closely. The yield of hay on good ground is from one and a half to three tons per acre. The best clover to sow with timothy is either the Sapling or Alsike, as they mature and ripen with timothy. Pound, 10c. Peck, 75c. Bushel of 45 lbs., \$2.75.



MILLET.

WHITE DUTCH CLOVER.

Thrives most everywhere. The best to sow with lawn grass and valuable to sow with blue grass per permanent pastures.

¼ pound, 10c. ½ pound, 15c. 1 pound, 25c.
By mail, pound, 35c.
10 pounds, by express, \$2.25

CRIMSON CLOVER.

SEE PAGE 33.

Grass and Clover Seed Mixtures.

**FOR MOWING FOR HAY,
BUT CAN BE GRAZED.**

We have in the following mixtures combined grasses suitable for the various soils for which they are recommended. They are composed of grasses which will give an even growth for mowing for hay. We have also combined them so as to give a splendid pasture from early spring until late fall if desired.

The different mixtures are prepared from seeds of the finest quality, and only those are used best adapted to the soils and situation for which they are intended.

MIXTURE No. 1.

For Moist Bottom Land.

Sow 25 lbs. to the acre. Price, Lb., 20c. 10 lbs. and over, 18c. per lb.

MIXTURE No. 2.

For Light, Dry, Gravelly or Sandy Soils.

Sow 35 lbs. to the acre. Price, Lb., 20c. 10 lbs. and over, 18c. per lb.

If any of the above wanted by mail, add 8c. per lb. for postage.

ORCHARD GRASS.

(*Dactylis glomerata*.)

One of the best and most reliable grasses for the Middle and Southern States, either for hay or pasturage. It succeeds well on nearly all soils, but does best on upland, loamy or moderately stiff soils. It starts early in the spring and continues well into winter. It is of quick growth and relished by stock, especially when young, and bears close grazing. It makes excellent hay, and gives the very best results mixed and grown with Tall Meadow Oat Grass and Red Clover, as suggested under the head of Tall Meadow Oat Grass. It should be cut when in blossom, as the hay is injured if the seed is allowed to ripen. It can be sown in the spring or fall either with grain or alone. Sow 3 bushels per acre if sown alone, or with Red Clover, one and one-half bushels of Orchard and seven pounds of Clover are the quantities usually sown. By express, 25c. lb. Bus. of 14 lbs., \$3.00.



ORCHARD GRASS.

CLOVER SEED.

RECLEANED RED CLOVER.

We take great pains to supply an extra quality of Red Clover at a reasonable price. Farmers should not sow a poor quality of Clover Seed. We have, however, cheaper grades for those who wish them. 20c. lb. By mail, 30c. lb.

Ask for prices in large quantities.

ALSIKE OR SWEDISH CLOVER.

Hardest of all the Clovers, and on rich, moist soils yields an enormous quantity of hay or pasturage. Valuable for sowing with other Clovers or grasses, as it forms a thick bottom and increases the yield of hay. Sow, either fall or spring, 6 pounds per acre when used alone.

Lb., 20c. By mail, 30c. 10 lbs., \$1.80, by express.



LUCERNE.

LUCERNE OR ALFALFA CLOVER.

One of the most valuable among Clovers, resisting drought and remaining green when other sorts are dried up. Sow on rich, moist loam or sandy soil. Prepare the land thoroughly and sow, either fall or spring, 20 lbs. to the acre.

Pound 25c.
By mail 35c.
10 pounds, by express....\$2.00

Special prices in large quantities on application.

FINEST IN THE COUNTRY.

Last June you sent me four bushels of German Millet, and I now have five acres of it. Everyone says it is the finest in the country. It is in a low meadow, and the dry weather does not seem to have any effect upon it.—F. A. WELTY, Maryland.

THE LAWN



PART OF CHESTNUT GROVE LAWN, BALTIMORE COUNTY.

Griffith & Turner Co.'s Evergreen Lawn Grass

This is a first-class mixture prepared by ourselves, and containing nothing but choice seeds—just the thing for tennis, croquet and ball grounds, remaining green and fresh during the hot summer months. Widely known and extensively used on the finest private and public grounds around Baltimore, Washington and elsewhere with the most satisfactory results. Nothing adds to the attractiveness of suburban homes more than a well-kept, closely-cut, velvety lawn; hence the importance of securing the best seeds. This we offer in our selected Evergreen Lawn Mixture, containing different varieties that grow and flourish at different months of the year, so that a rich, green, velvety lawn is constantly maintained. It is adapted to the small grass plots of city homes. **Pint, 10c. Quart, 20c.; by mail, 25c. ½ Peck, 65c. Peck, \$1.10. Bushel of 20 pounds, \$4.00. By freight or express, not prepaid.**

SHADY NOOK GRASS

On nearly all lawns there are bare spots under the shade of trees. With this mixture the above can be easily corrected. It is a combination of grasses which are found growing in the woods in their natural state.

Ground that has been densely shaded by trees is frequently "sour" and is apt to be covered with moss. In such cases apply slacked lime at the rate of one bushel per thousand square feet, but the moss should be first removed with a rake.

Price: Lb., 35c.; 5 lbs., \$1.65; Bu. of 20 lbs., \$o.00. Add 5c. for postage.

WHITE DUTCH CLOVER (Trifolium Repens.) See page 31.

The best variety for lawns, as it forms a close herbage and remains green throughout the season. It is also valuable when mixed with grass seeds for pasture. Sow in spring at the rate of 6 pounds per acre when sown alone, half the quantity when sown with other grasses.

Pound, 25c. By mail, 35c. 10 pounds by express, \$2.25.

THE "PET" LAWN TRIMMER

\$3.00



Used for trimming grass from the edges of sidewalks. It will carve out a little strip of sod and deposit it on the walk several inches from the edge, where it may be very easily swept up.

Preparation and Care of Lawns

THE ground should be thoroughly drained and well enriched before sowing. Work the soil until well pulverized, and have the surface as level as possible, so that the grass may present an even appearance. After sowing, cover seed lightly and follow with roller. The best results are obtained by using plenty of seed, four bushels to the acre being about the right quantity. One quart is sufficient for 300 square feet. Let the grass obtain a good start before cutting, and then it should be trimmed with a lawn mower about every ten days. Old lawns may be improved and renewed by the application of fertilizers and seeding about half the quantity of seed required for new lawns. This should be done whenever they show any thin places.

Our Lawn Grass Should Not Be Confounded with the Cheap, Chaffy Grasses Offered at Low Prices.

Park Lawn Grass

This mixture does not contain so much of the high-priced grasses as our Evergreen Lawn Grass, but it is superior to many of the cheap grades offered, and will make a very nice lawn. **Qt., 20c.; Peck, \$1.00; Bus. of 16 lbs., \$3.00.**

"TERRACE" SOD MIXTURE.

A special mixture of grasses best suited for sowing on terraces, railroad embankments and side hills—grasses that produce strong, spreading roots, thus preventing heavy rains from washing them out; that will withstand drought and exposure, thrive on shallow soils, and at the same time produce a rich, velvety green turf throughout the season. **Qt., 35c.; Peck, \$2.00; Bus. of 20 lbs., \$7.00. If by mail, add at the rate of 5c. a quart for postage.**

GRIFFITH & TURNER CO.'S GOLF LINK MIXTURE

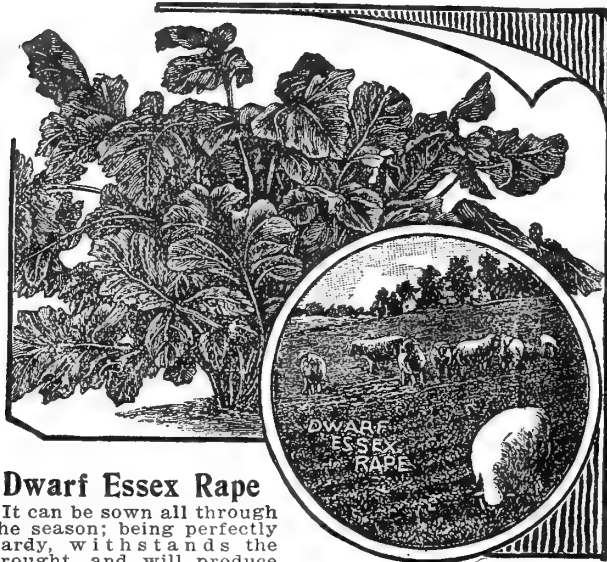
Bushel.....\$2.75. Ten Bushel Lots.....\$2.50.

There being a growing demand for a grass mixture suitable for golf and cricket grounds, we have made a study of the grasses best adapted to these purposes, and have them mixed in proper proportions to give desired results. Many of the public and private grounds around Baltimore and other places have been sown with our mixtures, and the grounds have won the admiration of thousands of visitors.

It is highly essential that golf and cricket grounds should be mowed closer than ordinary lawns. 14 pounds to bushel.



FORAGE AND SILO SEEDS



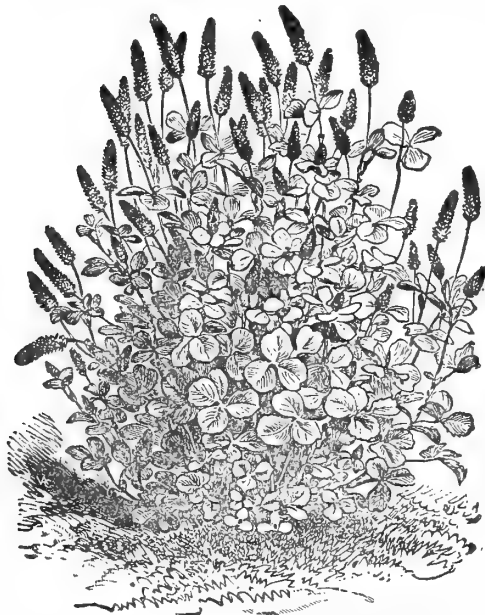
Dwarf Essex Rape

It can be sown all through the season; being perfectly hardy, with stands the drought, and will produce a crop in any soil by sowing broadcast at the rate of 5 lbs. to the acre, or 2 to 3 lbs. in drills. It is unequalled as a pasture for sheep, and as a fattening food for all kinds of live stock it is without a rival. Lb., 15c.; by express, 10 lbs. and over, 12c. lb., not prepaid; \$10.00 per 100 lbs. If wanted by mail, add 8c. per pound for postage.

BROOM CORN—50 lbs. to Bushel.—To grow Broom Corn successfully the ground should be rich and well prepared. Plant seeds in rows 3 feet apart by 18 inches. The plants should be cultivated as soon as they are out of the ground. Harvesting should be done when the seed is in a soft, milky condition.

IMPROVED EVERGREEN—This is the favorite sort; has a fine brush, yields well and keeps green. Height, 8 to 9 feet. Lb., 25c., postpaid. Peck, \$1.00. Bus., \$3.00.

FLAXSEED.—Lb., 10c. 4 lbs., 25c. Bus., \$2.75.



CRIMSON CLOVER

THE GREAT NITROGEN GATHERER.

The best crop for hay, silage and green manuring—all winter and spring pasturage. For hay, it must be cut before it comes into full bloom, as otherwise it may cause half-balls to form in the animal's stomach. It is used on poor and rich land. It is seeded in this country in June, July, August, September and October, and will produce an enormous crop early in the following spring, suitable either for consumption as green food or for hay. 15 to 20 pounds should be sown to the acre, according to the quality of the ground. 15c. per lb.; by mail, 25c. 10 lbs., by express, \$1.00. Write for prices in quantity.

For years we have taken special care in the selection of the various sorts of Grass and Clover Seeds for field culture, and in consequence our trade in this line has rapidly increased. Purity of stock and high germinating quality we consider essential.

As we handle very large quantities of these seeds we are enabled to supply the best quality at lowest prices.

SORGHUM, OR SUGAR CANE

EARLY AMBER grows 10 to 12 feet high and yields large crops of fodder, which is relished by all kinds of stock. It will produce two cuttings during the summer. Sow 3 or 4 quarts per acre in drills and cultivate same as corn. For hay, sow one bushel per acre broadcast. Lb., 10c. Pk., 60c.

EARLY ORANGE has a large, strong growth, but requires longer time to mature than the Early Amber. Very popular in the South, where there are long seasons. Prices same as Early Amber.

TEOSINTE.—A most valuable and enormous yielding cutting forage crop, but should be planted very early to succeed well. Good to use as green food, and also makes an excellent fodder. It branches as many as 50 stalks from one seed. Plant in May or June in rows 4 to 5 feet apart each way. Oz., 10c. ¼ lb., 25c. Lb., 75c., postpaid.

COW PEAS

THE GREAT SOIL ENRICHER. MAKES POOR LAND RICH. MAKES GOOD LAND BETTER.

Prices on application.

BLACK COW PEA.—It is a splendid land improver and most valuable as a forage crop, making an enormous yield of rich, nutritious food. Sow in May or June at the rate of one bushel per acre for seed, or two bushels for soiling.

BLACK EYE COW PEA.—The Black Eye Cow Peas are very prolific and bring a good price on our market.

WHIPPOORWILL PEA.—Makes a splendid forage pea. Vines stay green longer than other varieties; pods ripen earlier.

WONDERFUL, or UNKNOWN.—This makes an enormous and remarkable growth of vines, but requires the full growing season to make its crop. In yield and growth of vines it surpasses any of the varieties of Cow Peas, and it produces very largely of the shelled Peas. This variety should be planted in May in order to come to full maturity.

VETCHES, OR TARES.—**SPRING VETCHES** (*Vicia sativa*).—Closely associated with peas in character. Highly valuable for soiling or for green manuring. Sometimes grown with oats for mowing and feeding to stock. Use 2 to 3 bushels to the acre. Sow in spring while ground is cool and moist, or in early autumn. Lb., 10c. Peck of 15 lbs., \$1.25. Bus. of 60 lbs., \$4.00.

WINTER VETCHES (*Vicia villlosa*).

—Also called Sand Vetch, or Hairy Vetch. Recommended for fall sowing with rye, as in many localities in the North it is hardy, remaining green all winter. A valuable food for stock in early spring. Use 1 to 2 bushels per acre. Lb., 15c. Peck of 15 lbs., \$2.00. Bus. of 60 lbs., \$7.25.

RUSSIAN SUNFLOWER.—Growing to double the size of the common sunflower and the yield of seed is twice as great. It is highly recommended for poultry—the best egg producing food known. Lb., 10c. 4 lbs., 25c. Add 8c. lb. by mail.

SOJA BEANS

The great drought resisting forage crop, unsurpassed in nutritive value for feeding; also makes a splendid soil improver. Sow broadcast one-half bushel to the acre, or it may be planted in drills 3 feet apart and 1 foot between plants. Price on application.

CANADA FIELD PEAS

Sown in February, March or April, with a small quantity of oats, they make a large yield of forage. Sow 1 to 1½ bushels per acre broadcast with half a bushel of oats. Cut for hay before the peas mature. Peck, 75c. Bus., \$2.00. Write for special prices if a quantity is required.

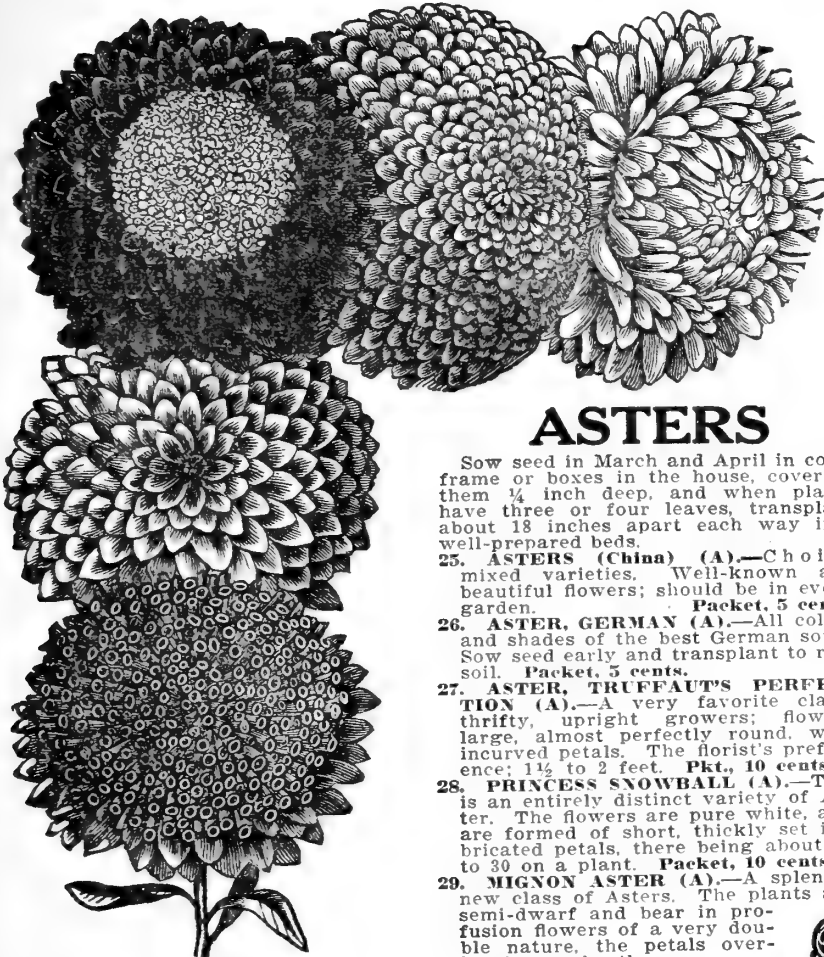


KAFFIR CORN.

The heads contain small white seeds, which make an excellent flour. They are greedily eaten by horses and cattle, and make fine feed for poultry, either fed in the grain or ground and cooked. Use 4 to 5 lbs. to acre.

Lb., 10c. 10 lbs., 50c. 100 lbs., \$2.50.

G. & T. Co's CHOICE FLOWER SEEDS



ASTERS

Sow seed in March and April in cold-frame or boxes in the house, covering them 1/4 inch deep, and when plants have three or four leaves, transplant about 18 inches apart each way into well-prepared beds.

- 25. **ASTERS (China) (A).**—Choice mixed varieties. Well-known and beautiful flowers; should be in every garden. **Packet, 5 cents.**
- 26. **ASTER, GERMAN (A).**—All colors and shades of the best German sorts. Sow seed early and transplant to rich soil. **Packet, 5 cents.**
- 27. **ASTER, TRUFFAUT'S PERFECTION (A).**—A very favorite class; thrifty, upright growers; flowers large, almost perfectly round, with incurved petals. The florist's preference; 1 1/2 to 2 feet. **Pkt., 10 cents.**
- 28. **PRINCESS SNOWBALL (A).**—This is an entirely distinct variety of Aster. The flowers are pure white, and are formed of short, thickly set imbricated petals, there being about 25 to 30 on a plant. **Packet, 10 cents.**
- 29. **MIGNON ASTER (A).**—A splendid new class of Asters. The plants are semi-dwarf and bear in profusion flowers of a very double nature, the petals overlapping each other. **Packet, 10 cents.**
- 30. **VICTORIA ASTER (A).**—The most beautiful of all Asters, bearing flowers of all colors and shades; the colors include many extremely delicate and gorgeous shades. Very double and four inches across; height 15 to 18 inches. **Packet, 10 cents.**
- 31. **COMET ASTER (A).**—This class of Asters has long slender and curled petals, forming loose yet dense flowers of semi-globe shape, 3 1/2 to 4 1/2 inches in diameter, which resemble the Japanese Chrysanthemum. **Packet, 10 cents.**
- 32. **DWARF CHRYSANTHEMUM FLOWERED ASTER (A).**—Grow 9 inches high; surpass all the dwarf varieties in size of flowers. **Packet, 10 cents.**
- 33. **SEMPLER'S BRANCHING ASTER (A).**—A choice strain of American-grown Asters, which has, by careful selection, been brought to a high degree of excellence. **Mixed Colors, 10c.**
- 34. **SEMPLER'S BRANCHING ASTER (A) (White).**—Very choice. **Packet, 10 cents.**
- 35. **BACHELOR'S BUTTON, or BLUE BOTTLE (A) (Centaurea Cyanus).**—A very old favorite garden annual, with handsome flowers of various colors. It does best if sown in a hot-bed; half-hardy annuals; two feet. **Packet, 5 cents.**

40. **DOUBLE BALSAMS, CAMELIA FLOWERED (A) (Lady Slipper, or Forget-Me-Not).**—The well-known Balsams are one of the finest summer blooming annuals, free bloomers and highly colored. By transplanting them once or twice, the flowers are apt to be more double.

Packet, 5 cents.
41. **BALSAM, PERFECTION WHITE (A).**—This resembles the mixed Balsams in shape, but the flowers are of a pure white, and is the variety usually grown by florists.

Packet, 10 cents.
45. **CANDYTUFT MIXED (A).**—Well-known favorite, hardy annuals; very pretty in beds or masses; useful for bouquets. Seeds may be sown in the fall for early flowering.

Packet, 5 cents.
46. **CANDYTUFT, WHITE (A).**—Treated and used same as the mixed.

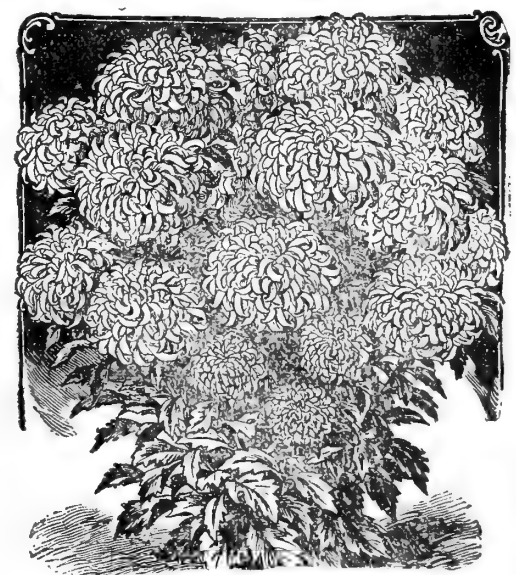
Packet, 5 cents.
50. **CALCEOLARIA DWARF (A).**—This is a magnificent ornamental plant for greenhouse or conservatory, bearing in profusion pocket-shaped flowers of all colors, spotted and blotched in the most fanciful fashion.

Packet, 25 cents.
53. **CALENDULA, DOUBLE (A).**—Very profuse dwarf bushy annuals, blooming continuously and profusely until frost; of easy culture, and suitable for summer garden or for growing in pots in winter.

Packet, 5 cents.
55. **CANNA, MIXED (Extra Choice) (A).**—The Cannas are desirable not only for the beauty of their spikes of scarlet flowers, but for their highly ornamental leaves. They make superb beds for the lawn. Soak the seeds thoroughly before planting, and keep in a warm spot. Very slow to germinate.

Packet, 5 cents.
60. **CANTERBURY BELLS, SINGLE MIXED (Campanula) (A).**—A highly attractive class of plants, combining richness of color with stately growth; valuable for beds and borders. Sow early and transplant in light, rich soil.

Packet, 5 cents.
61. **CANTERBURY BELLS, DOUBLE MIXED (P).** **Packet, 5c.**



- 33.—SEMPLER'S BRANCHING.
- 68a. **CENTAUREA GYMNOCARPA.**—Fine cut silver-gray foliage; 1 1/2 feet. **Packet, 5c. 1/4 Oz., 25c.**
- 68. **CENTAUREA CANDIDISSIMA.**—Silver white; leaves broadly cut. **Packet, 5c. 1/4 Oz., 25c.**

ORDER BY NUMBERS

The letter "A" means annual.
The letter "P" means perennial.

Ten 5c. Papers, mailed, for 25c., or
Four 10c. Papers for 25c.

- 1. **AGERATUM, MIXED (A).**—Suitable for beds, and especially nice for cut flowers and bouquets. **Packet, 5c.**
- 10. **ALYSSUM (A).**—The Sweet Alyssum has pretty little white flowers, useful in making small bouquets, and its fragrance, while sufficiently pronounced, is very delicate. The Alyssum grows freely from seed, blooms the whole season. **Oz., 25c. Pkt., 5c.**
- 11. **ALYSSUM (A) (Tom Thumb).**—Of dwarf, compact habit, each plant covering a circle from 15 to 30 inches. It will bloom when small and remain covered with bloom from spring to autumn. **Oz., 40c. Packet, 5c.**
- 20. **AMARANTHUS, MIXED (A).**—Showy blooming plants, with long racemes of curious looking flowers and brilliant foliage; half hardy annuals. **Packet, 5 cents.**
- 21. **AMARANTHUS, TRI-COLOR (Joseph's Coat) (A).**—Red, Yellow and Green foliage; 2 feet. **Packet, 5c.**
- 22. **AMARANTHUS CAUDATUS (Love Lies Bleeding) (A).**—Graceful and handsome flowers of blood-red hue. **Packet, 5 cents.**
- 24. **ANTIRRHINUM, DOUBLE MIXED (P).**—One of the most useful and showy border plants. The recently improved varieties have large, finely shaped flowers of brilliant colors. Perennial. **Packet, 5 cents.**

FLOWER SEEDS THAT GROW

Ten 5c. Papers Mailed for 25c.,
or Four 10c. Papers for 25c.

69. CENTROSEMA GRANDIFLORA (P).—A perfectly hardy perennial vine of rare beauty, which blooms in July from seed sown in April, and bears in great profusion inverted pea-shaped flowers of various colors. **Packet, 5c.**

70. CHRYSANTHEMUMS, SINGLE, MIXED (A).—Showy and effective garden favorites extensively grown for cut flowers. The hardy-annuals are summer flowering border plants; good for pot culture and quite distinct from the autumn flowering varieties. **Packet, 5c.**

71. CHRYSANTHEMUMS FRUTESCENS (A).—The Marguerite, or Paris Daisy).—Immense quantities are grown by French florists, and find a ready sale. It produces freely its white, star-like flowers under the most favorable conditions. **Packet, 10c.**

75. CINERARIA (Dusty Miller) (P).—Fine for bedding, ribbon beds and margins; prized for their beautiful, downy, silvery foliage; half hardy perennials; two feet. **Packet, 5c.**

76. CINERARIA HYBRIDA (P).—Large flowered prize varieties; very attractive, free blooming plants, producing large and brilliant flowers. **Packet, 25c.**

77. CINERARIA HYBRIDA DWARF (P).—Large flowered, dwarf prize varieties; splendid strain. **Packet, 25c.**

80. CLARKIA, MIXED (A).—An old favorite hardy annual plant, growing in any garden soil, and producing freely its cheerful flowers early in the season; 1½ feet. **Packet, 5c.**

85. COCKSCOMBS (Celosia Cristata) (A).—Very popular annuals of the easiest culture, highly ornamental for decoration of the greenhouse, drawing-room and garden. Half hardy annuals. **Packet, 5c.**

86. COCKSCOMBS, GLASGOW PRIZE (A).—Immense showy dark crimson combs. **10c.**

88. COWSLIP (P).—**Packet, 10c.**

89. COLEUS (A).—Very choice plants, with richly colored foliage of maroon, green, crimson, yellow, etc. **Pkt., 25c.**

90. CONVULVULUS, TRI-COLOR MINOR (Dwarf Morning Glory) (A).—A beautiful class of hardy annuals, affording a large, showy mass of flowers from July to October. **Packet, 5c.**

93. COREOPSIS (Calliopsis) (P).—Very handsome and showy plants, with numerous flowers of brilliant colors, and of long duration in bloom. **Packet, 5 cents.**

93a. COREOPSIS LANCEOLATA (P)—IMPROVED (California Sunbeams)—This is one of the finest of hardy plants, with large, showy, bright, golden-yellow flowers, freely produced on long stalks, from June till frost; excellent for cutting; will thrive in almost any situation. **Packet, 5c. ¼ oz., 40c.**

COSMOS

Large flowering. Sow early in spring, and transplant when danger from frost is past. The flowers are borne profusely, and present a charming appearance when in full bloom, being covered through the autumn months with hundreds of showy blossoms. They are very easily raised and make a grand display.

94. TINTS OF DAWN COSMOS (A).—This new variety comes into full bloom in July, and continues a mass of bloom until cut down by severe frost. In addition to this, it is of dwarf growth, and large flowers. **Packet, 10c. ¼ oz., 50c.**

96. CYCLAMEN—PERSICUM—GIGANTEUM, MIXED (P).—Charming plants, with beautiful foliage and rich colored, fragrant flowers. **Packet, 25c.**

97. DAISY, MIXED (P).—Well-known favorites, admirably adapted for edgings, borders and low beds, and it is also suited for growing in pots. Although they are perennials, they will flower the same season if seed is sown early in the house. **Packet, 10 cents.**

98. DAISY LONGFELLOW (P).—This is a very pretty, large, double pink variety. **Packet, 10 cents.**

99. DAISY, SNOWBALL (P).—An unusually large-flowered variety, and produces very double, pure white flowers. **Packet, 10 cents.**



DAISY.

DAHLIA

One of our best autumnal flowering plants. Blooms until killed by frost; tuberous-rooted, half-hardy perennials; blooming the first year from seed, if sown early.

100. SINGLE MIXED (A).—Large, showy single flowers. **Packet, 5c.**

100a. CACTUS DAHLIA (A).—A most curious and desirable variety of many colors. **Packet, 5c.**

DAHLIA ROOTS AND PLANTS IN GREAT VARIETY.

See page 45 in Plant Department for full description of the many kinds and prices.

DIANTHUS.—(See Pinks).

101. ETERNAL FLOWER (Helichrysum) (A).—These are very popular and desirable for winter decoration, bouquets, wreaths, etc. They should be cut when they come into full bloom, tied into bunches and dried in the shade with their heads downward. **Packet, 5c.**

103. FEVERFEW (GOLDEN FEATHER) (Pyrethrum Aureum) (P).—A highly ornamental golden-yellow foliage plant, unexcelled for bedding. Hardy perennial; 1½ feet. **Packet, 5c.**

105. FORGET-ME-NOTS (Myosotis) (P).—Neat and beautiful little plants, with star-like flowers, succeeding best in a shady, moist situation; half-hardy perennials; blooming the first year from seed, if sown early. **Packet, 5c.**

106. FOXGLOVE (DIGITALIS) (P).—A handsome and highly ornamental, hardy perennial plant of stately growth; fine for shrubberies and other half-hardy places; 3 feet. **Packet, 5 cents.**

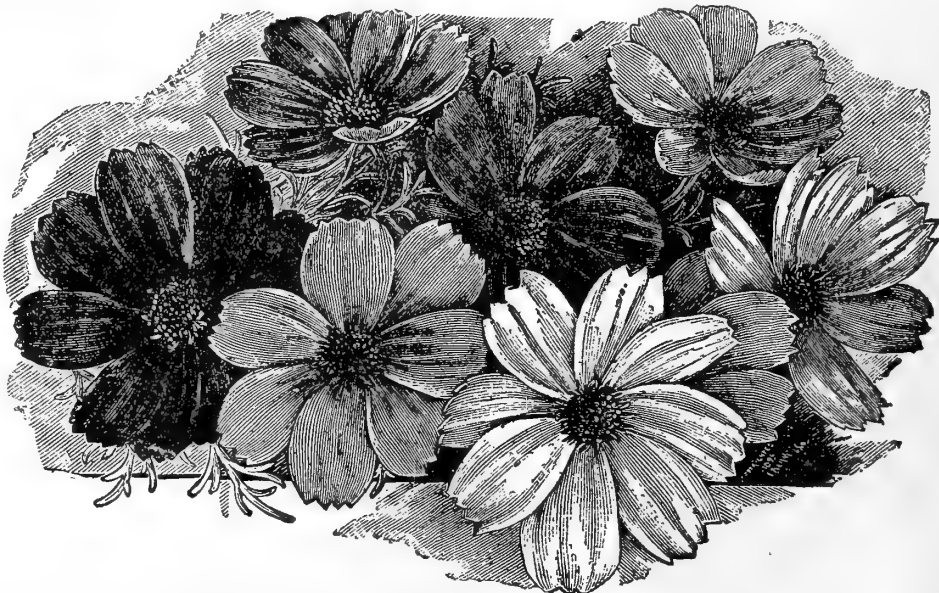
107. GERANIUM (New Zonale) (A).—A grand strain of Geraniums, containing all shades of colors. **Packet, 10c.**

108. GODETIA—Finest Mixed (A).—Fine, profuse blooming, hardy annuals. **Packet, 5c.**

109. GAILLARDIA (A).—Very attractive plants, producing a profusion of bloom the entire summer and autumn. Half-hardy annuals. **Packet, 5 cents.**

110. GILIA MIXED (A).—Very pretty dwarf plants, early, free blooming, fine for massing and rock work. Hardy annuals. **Packet, 5 cents.**

111. GLOXINIA (A).—Large flowering, choice mixed. Produces in great profusion large bell-shaped flowers of the richest variety of colors. **Packet, 25 cents.**



95a. COSMOS, Pink (A).—5c.

95b. COSMOS, White (A).—5c.

95c. COSMOS, Crimson (A).—5c.

95d. NEW MARGUERITE COSMOS (A).—5c.

One of the prettiest and daintiest varieties imaginable, 10c.

SELECTED FLOWER SEEDS

Ten 5c. Papers Mailed for 25c.,
or Four 10c. Papers for 25c.

112. **HELIOTROPE (A).**—These are deliciously fragrant flowers, remaining in bloom a long time; fine for pot culture or bedding; half-hardy annuals. **Packet, 5c.**
115. **HOLLYHOCK, CHATERS SUPERB MIXED (P).**—This is one of the oldest inhabitants of our gardens; now ranks as one of the finest autumn flowers. **Packet, 5c.**
116. **HOLLYHOCK, CHATERS DOUBLE WHITE (P).**—Largely used by florists. **Packet, 10c.**
120. **LARKSPUR (Delphinium) (A).**—One of the most showy and useful plants, possessing almost every requisite for adornment of the garden. **Packet, 5c.**
121. **LARKSPUR EMPEROR (P).**—Of symmetrical bushy habit, with a profusion of brilliant dark-blue, red-striped and tri-colored flowers. **Packet, 5c.**

LOBELIA

A beautiful and popular flower, very desirable for pot culture, beds or hanging baskets, because of its trailing habits. Grows easily and does well in beds and rockeries. Bears a profusion of blue and white flowers.

122. **MIXED VARIETIES (A).**—**Packet, 5 cents.**
123. **CRYSTAL PALACE COMPACTA (A).**—Rich deep blue. The finest for bedding. **Packet, 10 cents.**
125. **MARIGOLD, DOUBLE AFRICAN (A).**—A well-known free-flowering plant, of easy culture, with rich and beautiful double various-colored flowers. **Packet, 5 cents.**
126. **MARIGOLD, DOUBLE FRENCH (A).**—Of compact habit, with numerous bright, showy flowers. Very fine. **Packet, 5 cents.**
130. **MARVEL OF PERU, or FOUR O'CLOCK (Mirabilis Jalapa) (A).**—Very pretty annual of vigorous growth. The flowers are brilliant, singularly mixed and varied on the same plant. Two feet. **Packet, 5 cents.**
131. **MATTHIOLA BICORNIS (A).**—Very fragrant at night. **Packet, 5 cents.**
133. **MESEMBRYANTHEMUM CHRYSALINUM (Ice Plant) (A).**—Dwarf spreading plants of great beauty, blooming the entire summer, succeeding best in dry, sandy or loamy soil, and in a warm locality. It belongs to the half-hardy annuals. **Packet, 5 cents.**
134. **MIMULUS.**—The beautiful Monkey Flower. **Packet, 5c.**

MIGNONETTE

135. **MIGNONETTE—SWEET (Reseda Odorata).**—A well-known and universal garden favorite, and one that requires no extra instructions for growing. Hardy annuals. **Packet, 5c. Oz., 15c.**
136. **MIGNONETTE—PYRAMIDAL.**—(Large flowered).—The largest flowered of all Mignonettes. Annual. **Packet, 5c. Oz., 15c.**
137. **MACHET MIGNONETTE.**—Well adapted for pot culture; dwarf pyramidal growth; bearing numerous flower stalks; one of the best. **Pkt., 10c. ¼ Oz., 20c. Oz., 50c.**



**DEFIANCE
MIGNONETTE.**

138. **MIGNONETTE VICTORIA (A).**—A splendid new, compact-growing variety of dense pyramidal, growing about six inches high. The flowers are of a brilliant red, and are suitable for pot or garden. **Packet, 10c.**
139. **ALLEN'S DEFIANCE (A).**—When grown under favorable conditions and with proper care spikes will not only be of remarkable size—from 12 to 15 inches long—but deliciously fragrant; much more so than any other variety. **Pkt., 10c. ¼ Oz., 25c.**
140. **GOLDEN MACHET MIGNONETTE (A).**—Distinct new variety of the well-known Machet, of the same compact and robust habit, but differing from the type by its massive spikes of golden-yellow blossoms. **Pkt., 5c. ¼ Oz., 20c.**



NASTURTIUM.

142. **DWARF MIXED.**—The dwarf variety of Nasturtium is among the most useful and beautiful of annuals for bedding, massing, etc., owing to their compact growth, richness of color and profusion of bloom; mixed colors. **Pkt., 5c. Oz., 10c.**
143. **DWARF NASTURTIUM—AURO-RA.**—Blush white and salmon, blotched with garnet. **Pkt., 5c. Oz., 15c.**
144. **DWARF NASTURTIUM—BEAUTY.**—Bright scarlet, striped with yellow. **Pkt., 5c. Oz., 15c.**
145. **DWARF NASTURTIUM (Empress of India).**—Very dark foliage, with deep crimson flowers. **Pkt., 5c. Oz., 25c.**
146. **DWARF NASTURTIUM (Golden King).**—Brilliant yellow. **Pkt., 5c. Oz., 15c.**
147. **DWARF NASTURTIUM (King of Tom Thumb).**—Brilliant yellow flowers, blotched with maroon. **Pkt., 5c. Oz., 15c.**
148. **DWARF NASTURTIUM (Ruby King).**—Light ruby red. **Pkt., 5c. Oz., 15c.**
149. **DWARF NASTURTIUM (Cloth of Gold).**—Golden Yellow foliage, light scarlet flowers. **Pkt., 5c. Oz., 20c.**

150. **KING THEODORE—DWARF.**—Black-brown foliage. **Pkt., 5c. Oz., 15c.**
151. **CRYSTAL PALACE GEM.**—Sulphur, maroon spot. **Pkt., 5c. Oz., 15c.**

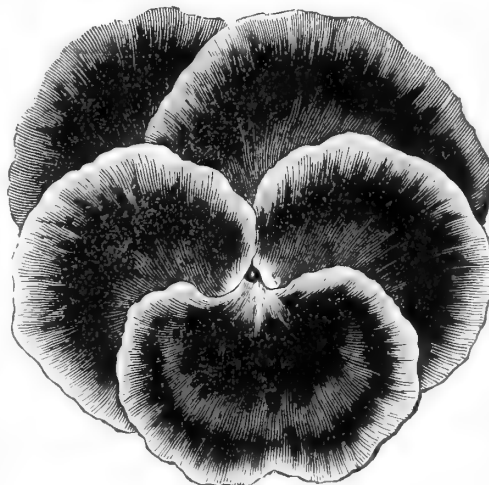
310. **TALL NASTURTIUM.**—Elegant, profuse flowering plants, constantly growing in favor for verandas, trellis, etc. The seed pods can be gathered while green and tender for picking. **Pkt., 5c. Oz., 10c.**

OXALIS

153. Pretty little half-trailing annuals for hanging baskets. Mixed annual sorts. **Packet, 10 cents.**

PANSIES—ANNUALS

155. **PANSY HEARTS-EASE.**
Choice mixed. An old but universally admired plant, producing an endless variety of color, marking and texture. They may be treated as annuals, as they flower the first season from seed; 6 in. **Pkt., 5c. ½ Oz., 35c.**



PANSIES.

156. **PANSY GIANT TRIMAR-DEAU.**
Remarkable for the extra large size of the flower and an endless variety of beautiful shades. **Packet, 10c. ¼ Oz., 40c.**
157. **G. & T. CO.'S EXTRA MIXED.**
This mixture, containing the finest blotched varieties, is grown and selected with special care, and has given the most satisfactory results to both florists and amateurs for the past two years. **Pkt., 15c. Two Pkts., 25c. ¼ Oz., 60c.**
158. **PANSY (Bugnot's Exhibition).**—A celebrated strain of extra large size, beautiful colors, handsome broad blotches, and finely penciled with stripes of delicate hue. The ground colors are generally dark, which, with light penciling and blotches, make a magnificent flower. They are a small seeder. **Packet, 25 cents.**
162. **PASSION FLOWER (Southern Beauty).**—A most interesting and well-known order of climbers, bearing singularly beautiful flowers. **Packet, 10 cents.**

THE BEST FLOWER SEEDS

PETUNIAS (ANNUALS)



Ten 5c. Papers, mailed, for 25c., or
Four 10c. Papers for 25c.

165. **PETUNIA.**—Favorite, half-hardy, succeeding well in any rich soil. For the brilliancy and variety of the colors and the long duration of their blooming period, they are indispensable in any garden. **Packet, 5c.**
166. **SINGLE-FRINGED MIXED PETUNIA.**—Large flowers, four to five inches across, of every hue, each flower being beautifully fringed. **Packet, 25 cents.**
167. **DOUBLE PETUNIA.**—About 30 per cent. will produce double flowers. **Packet, 25 cents.**
168. **PETUNIA — Double - Fringed Mixed.**—The flowers of this sort being double, together with being fringed, are very beautiful. **Packet, 25c.**
Plants of Double Petunia furnished on application. **10c. each. \$1.00 doz.**

PHLOX DRUMMONDII

175. **PHLOX DRUMMONDII (A).**—A most brilliant and beautiful hardy annual, about one foot high, well adapted for bedding making a dazzling show through the whole season. It succeeds well on almost any soil. **Packet, 5 cents.**
167. **PHLOX DRUMMONDII—(Nana Compacta) (A).**—Very fine mixed. This new strain is of dwarf, compact habit, and makes desirable pot plants; also excellent for ribbon lines and massing. **Packet, 10 cents.**
180. **PINK CARNATION, or PICOTEE. (Choiceest Double Mixed Dianthus Caryophyllus).**—Carnation and Picotee Pinks are generally favorites for their delicious fragrance, richness of colors and profuse bloom. Perennial. **Packet, 10 cents.**
181. **PINK CARNATION (Riviera Market, or Gillaud).**—This is the only variety that will produce flowers the first season. The mixture we offer contains a magnificent variety of colors and shades, having among them flowers of canary yellow, and also striped yellow. They will thrive either in open ground or pots. **Packet, 25 cents.**
182. **PINK CARNATION (Marguerite) (P).**—Will produce flowers in a few weeks from seed. Profuse bloomers, producing very double flowers of all shades of red, pink, white and variegated. Will bloom all summer until frost or indoors in winter in pots. **Packet, 10 cents.**



Carnation

185. **PINK—CHINA (Dianthus Chinnensis) (P).**—Free bloomers, and a general favorite for bouquets; also a useful bedding plant. **Pkt., 5c.**
188. **PINK—HEDDEWIGII* (P).**—Beautiful double flowers in a great variety of colors, with fringed white edges. **Packet, 5 cents.**
189. **PINK—JAPAN (P).**—Beautiful double flowers, mixed, of various colors, with the outer edges fringed and nearly white. **Pkt., 10c.**
195. **PORTULACA (Mexican Rose) (A).**—One of the finest hardy annual plants, of easy culture, thriving best in rather rich, light loam or sandy soil; the single-flowering varieties are large and brilliant, of the richest shades of color, and produced throughout the summer in great profusion; fine for massing in beds or edgings of rock work. **Packet, 5 cents.**
196. **DOUBLE PORTULACA (A).**
Packet, 10 cents.
200. **POPPY-CARNATION (Papaver) (A).**—A showy and easily cultivated hardy annual, with large brilliant colored flowers, growing freely in any garden soil. **Pkt., 5c.**

201. **POPPY—PEONY FLOWERED (A).**—A magnificent species, large, showy, double globe flowers, resembling Peonies in shape. **Packet, 5 cents.**
202. **SHIRLEY POPPY (A).**—These beautiful Poppies are generally single or semi-double. The colors, extending from one extreme to the other, are so varied that scarcely two are alike, while many are striped and blotched. The blooms, if cut when young, will stand for two or three days. **Packet, 5 cents.**
203. **TULIP POPPY (A).**—A magnificent species from Armenia. The plants attain a height of 14 to 16 inches, and produce from about 50 to 60 flowers of the brightest scarlet. **Packet, 5 cents.**
204. **ICELAND POPPIES, MIXED (A).**—Although hardy perennials, these Poppies bloom the first season from spring-sown seed. The fragrant, elegant, crushed satin-like flowers are produced in never-ceasing succession from the beginning of June to October. **Packet, 5 cents.**
205. **POPPY—IRRESISTIBLE (A).**—A rare and beautiful Poppy, with immense flowers. Color, an exquisite rose. **Packet, 5 cents.**
- 210.—**ENGLISH PRIMROSE (Primula Vulgaris) (P).**—No collection of spring flowers is complete without a few of these charming little plants. A little covering in the late fall will protect them from the severe weather of winter, and the great number of flowers produced will more than repay you the extra trouble. They are not as generally grown as they should be. **Packet, 10 cents.**

211. **CHINESE PRIMROSE (Primula Fringed) (A).**—This variety is much prettier than the English, being fringed and of the most beautiful colors. They differ from each other like the double and single Petunias. **Packet, 25 cents.**

212. **RICINUS, CAMBOGIENSIS (A)**—Ornamental plants of stately growth and picturesque foliage; fine for lawns, massing or center plants for ribbon beds; half-hardy annuals. **Packet, 5 cents.**

212½. **RICINUS ZANZIBARIENSIS, MIXED (A).**—Their immense leaves and gigantic plants exceed all other varieties. **Packet, 5 cents.**

13. **SCABIOSA—GRANDIFLORA (P).**—A wonderful improvement over the old variety; bears beautifully formed flowers three inches in diameter. **Packet, 10 cents.**

215. **SCARLET SAGE (Salvia Splendens) (A).**—Tall, erect, green foliage. A favorite greenhouse and bedding plant, bearing long spikes of flowers in great profusion from July to October; half-hardy perennial, blooming the first year from seed. Three feet. **Packet, 5c. ¼ Oz., 75c.**

216. **SCARLET SAGE—CLARA BEDMAN (Bonfire) (A).**—Dwarf, green foliage, flowers close to the ground. The finest Salvia ever introduced. **Packet, 5c. ¼ Oz., 75c.**



Salvia Splendens.

HIGH-GRADE FLOWER SEEDS

Ten 5c. Papers, mailed for 25 cts., or
Four 10c. Papers for 25c.

220. SENSITIVE PLANT (*Mimosa*).—Curious and interesting plants, with pinkish-white flowers; the leaves close in and droop when touched or shaken; tender annual. Packet, 5 cents.

SNAP DRAGON.—(See *Antirrhinum*.) Packet, 5c.

230. TEN WEEKS STOCKS (*Gilliflower*).—A world-wide favorite, brilliant and varied in color, equally well-adapted for massing, bedding, edging or pot culture. Very profuse bloomers.

Should be grown in rich soil. Packet, 5c.

231. STOCKS—SNOWFLAKE IMPROVED.—A beautiful dwarf-growing variety; very large, double, snow-white flowers. Our seed of this variety is grown by a specialist, and will produce a large percentage of double flowers. Packet, 10 cents.

237. SWEET ROCKET (*Hesperis*) (A).—Very pleasing, early spring flowering, profuse blooming plants, with fragrant flowers, growing freely in any light, rich soil. Packet, 5 cents.

240. SWEET WILLIAM (*Dianthus Barbatus*) (P).—A well-known free-flowering popular favorite; the great improvements upon the old varieties made within the last few years have rendered it still more desirable. Hardy perennials. Packet, 5c.

243. SWEET VIOLET (A).—Deservedly much in demand, because of their profusion of bloom and delicate, sweet odor. Packet, 10c.

244. TORENIA (A).—Charming plants for pot-culture, vases or hanging baskets. They succeed well also in the open ground in summer, and are very attractive in beds or masses. Packet, 5c.

245. MAMMOTH VERBENA (A).—One of the most popular and useful bedding plants. Verbenas delight in sunny situation, rich soil and thorough cultivation. Packet, 5c. Ounce, \$1.00.

250. VINCA ROSA (A).—Rose with dark eye. Packet, 5c.

251. VINCA ALBA (A).—White, with crimson eye. Packet, 5 cents.

255. WALLFLOWER, DOUBLE (A).—Well-known, deliciously fragrant plants, with large spikes of double flowers, similar to the *Gilliflower*. Succeed in light, rich soil, in a moist atmosphere. Perennials. Packet, 10c.

ZINNIA

Very showy plants with large, double, imbricated flowers which, when fully expanded, might easily be mistaken for dwarf dahlias. There is much satisfaction in a bed of Zinnias, for when nearly every other flower has been killed by frost this plant is still in full bloom more abundantly throughout the season. Sow the seed early in spring, in open ground and transplant to one and one-half feet apart in good, rich soil. Half-hardy annual; about eighteen inches high.

258. ZINNIA ELEGANS (*Youth and Old Age*) (A).—This is one of the most brilliant of annuals, and has long been a general favorite. The flowers are large, finely formed, in great variety of colors, and continue to bloom the entire season. Half-hardy annuals. Packet, 5 cents.

259. ZINNIAS CURLED AND CRESTED (A).—New, odd and superb. Petals twisted, curled and crested into fantastic contortions and graceful forms. A magnificent variety of colors. Packet, 5 cents.

260. ZINNIA—DOUBLE POMPON (A).—Long, cone-shaped flowers, very fine. Packet, 5 cents.

261. ZINNIA—ZEBRA FLOWERED (A).—Double Striped. Profuse bearer of fine double flowers in many colors. Packet, 5 cents.



General List of Climbers

270. BALSAM APPLE (*Momordica*) (A).—Very curious trailing vines, with ornamental foliage; fruit golden yellow; when ripe, opens, showing the seeds and its brilliant carmine interior. Packet, 5c. Ounce, \$1.00.

272. BALLOON VINE (*Love in a Puff*) (A).—A rapid growing plant; succeeds best in light soil and warm situation; flowers white; half-hardy annual. Packet, 5c.

275. CANARY BIRD FLOWER (*Peregrinum*) (A).—With yellow, canary-like flowers; very ornamental and beautiful foliage; half-hardy annual. Packet, 5c.

276. COBEA SCANDENS (P).—A beautiful, rapid-growing climber, with handsome foliage and large bell-shaped flowers; blue; half-hardy perennial; grows 20 to 30 feet high. Packet, 10c. Ounce, 40c.

278. CYPRESS VINE, RED (*Ipomea Quamoclit*) (A).—One of our most popular vines, with very delicate fern-like foliage, and masses of beautiful, small, star-shaped flowers. Sow last of May; 15 feet. Packet, 5c.

279. CYPRESS VINE, WHITE (A).—Usually grown with the red, making a handsome effect. Packet, 5c.

282. MAURANDIA (*Barclayana*) (A).—These charming climbers cannot be too highly praised for their beautiful flowers and foliage. They are admirably adapted for hanging baskets, vases or trellis work. Packet, 5c.

285. MIXED GOURD (*Cucurbita*) (A).—Rapid growing interesting plants, with ornamental foliage and varieties of singular-shaped fruit; annual. Packet, 5c.

286. NEST EGG GOURD (A).—White fruit, shaped like an egg. Used as a substitute for nest eggs. Packet, 5c.

287. DISH CLOTH GOURD (A).—Packet, 5c.

288. DIPPER GOURD (A).—Packet, 5c.

290. MOCK ORANGE (P).—Fruit shaped like an orange. Packet, 5c.

295. HEAVENLY BLUE IPOMEA (A).—The flowers are in large, airy clusters, and of that lovely blue so rarely seen. Flowers four to five inches across. Packet, 5c.

300. MORNING GLORY (*Convolvulus Major*).—One of the most free flowering and rapidly-growing plants in cultivation, thriving in almost any situation. The beauty and delicacy of their brilliant flowers are unsurpassed; hardy annuals. Packet, 5c.

301. NEW BRAZILIAN MORNING GLORY. Packet, 5c.

302. GIANT JAPANESE MORNING GLORY (See Cut).—This plant has been developed to such a state of perfection that it now produces flowers of immense size and almost endless variety of color and markings. Some of the flowers are brilliant red, or rich blue self-colored; others are equally brilliant, with broad margins of clear white. Some blossoms are striped and dotted with blue or red on white or lemon-yellow ground; others clouded with blue and red; in fact, one may expect to find some new and exquisitely beautiful markings every morning. Not only are the flowers varied, but the foliage is equally so; some of it comes plain green, and part is mottled with white and shades of yellow or yellowish green.

Packet, 10 cents.

305. MOON FLOWER (*Ipomea Noctiflora*).—Charming and popular blooming climbers; of rapid growth and showy effects; warm, rich soil, with a sunny exposure suits them.

Packet, 5 cents.

310. TALL NASTURTIUM (*Tropaeolum Major*).—Elegant, profuse flowering plants, constantly growing in favor for verandas, trellis, etc. The seed pods can be gathered while green and tender for pickling.

Packet, 5c. Ounce, 10c.

320. SCARLET RUNNERS.—Very handsome climbing Beans, with bright scarlet flowers.

Packet, 5 cents.

326. SMILAX.—Charming climber for greenhouse or window gardens.

Packet, 5 cents.

SWEET PEAS

CULTURE



350. **ALICE ECKFORD.**—Standard rich creamy, tinted pale pink. Wings pure white. Ounce, 5c.; ¼ pound, 15c.
 351. **AMERICA.**—Crimson scarlet, striped on white; large size, open form, very bright and effective; holds its color well. Brightest striped variety we have. Oz., 5c.; ¼ lb., 15c.
 352. **APPLE BLOSSOM.**—Bright rose and pink; beautiful. Ounce, 5c.; ¼ pound, 15c.
 353. **AURORA.**—The color effect is gorgeous; both standard and wings are flaked and striped on a white ground with bright orange salmon. Ounce, 5c.; ¼ pound, 15c.
 355. **BLANCHE BURPEE.**—Pure white; very large flower. Ounce, 5c.; ¼ pound, 15c.
 356. **BLANCHE FERRY.**—Popular color, standard bright-est pink; keel and wings white. Ounce, 5c.; ¼ pound, 15c.
 357. **BLANCHE FERRY.**—Extra early. Oz., 5c.; ¼ lb., 15c.
 358. **BLUSHING BEAUTY.**—Flowers of largest expanded form, perfect in shape and of very good substance. Color a delicate, soft pink. Ounce, 5c.; ¼ pound, 15c.
 359. **BOREATION.**—A very dark Pea, with bold, stout flowers; color deep maroon. Ounce, 5c.; ¼ pound, 15c.
 360. **CAPTAIN OF THE BLUES.**—Large, shell-formed flowers, purplish blue; wings deep blue. Oz., 5c.; ¼ lb., 15c.
 361. **COQUETE.**—Standard mauve and fawn blended and shaded on primrose; wings primrose. The general effect is primrose with a purplish coloring. Ounce, 5c.; ¼ pound, 15c.
 362. **COUNTESS OF RADNOR.**—Light mauve standard, lavender wings. Ounce, 5c.; ¼ pound, 15c.
 363. **DUKE OF SUTHERLAND.**—Standard dark violet and purple; wings violet and indigo. Large size, hooded form; standard somewhat wavy on edges. Ounce, 5c.; ¼ pound, 15c.
 364. **ELIZA ECKFORD.**—Standard white, shaded with pink and deepening. Ounce, 5c.; ¼ pound, 15c.
 365. **EMILY ECKFORD.**—Standard heliotrope, suffused with blue; wings deep blue. Ounce, 5c.; ¼ pound, 15c.
 366. **EMILY HENDERSON.**—Very early; color pure white; fragrance most delicious. The plants are robust, branching, of compact habit; flowers large, broad and round, and its abundance of bloom is phenomenal. Ounce, 5c.; ¼ pound, 15c.
 367. **FIREFLY.**—Bright red, with wings frequently showing tint of crimson. Ounce, 5c.; ¼ pound, 15c.
 368. **GORGEOUS.**—Standard scarlet orange; wings bright rose strongly tinged with orange; medium size, open form. The standard burns badly with the sun. It is an intensely bright colored variety. Ounce, 5c.; ¼ pound, 15c.
 369. **GRAY FRIAR.**—Heliotrope, marbled or dusted on white on both standard and wings. Ounce, 5c.; ¼ pound, 15c.
 370. **HER MAJESTY.**—Beautiful, soft, rosy pink. Ounce, 5c.; ¼ pound, 15c.
 371. **HON. MRS. E. KENYON.**—Light, primrose, self-colored; large size, semi-hooded form of the best type; large and fine. Ounce, 5c.; ¼ pound, 15c.
 372. **KATHERINE TRACEY.**—Soft, brilliant pink. Ounce, 5c.; ¼ pound, 15c.
 373. **KING EDWARD VII.**—Bright red or crimson scarlet; almost self-colored, but the standard is a little brighter than the wings; very large size, open form. Oz., 5c.; ¼ lb., 15c.

SWEET PEAS should be sown in drills as early as possible in spring, in rich, friable soil. Prepare the bed thoroughly, working in a quantity of well-rotted manure, if it can be done, making a furrow 4 to 6 inches deep. In this sow the seed and cover 2 inches deep. As soon as the plants begin to show through, fill in the furrow. This will secure a deep planting without the bad effect of deep covering of the seed at first, and so enable the plant to bloom continuously through the heat of summer. As fast as the flowers come into full bloom or fade they should be cut off, for if the pods are allowed to form the plants will stop blooming.

374. **LADY BEACONSFIELD.**—The standards are of light salmon pink, wings pale primrose yellow. Oz., 5c.; ¼ lb., 15c.
 375. **LADY PENZANCE.**—One of the most beautiful of Eckford's introductions. The standard is a beautiful laced pink, touching orange, while the wings are a darker and purer pink. Ounce, 5c.; ¼ pound, 15c.
 376. **LOTTIE ECKFORD.**—New and free bloomer; color lavender, shaded with pink and white; very handsome. Ounce 5c.; ¼ pound, 15c.
 377. **LOTTIE HUTCHINS.**—Daintily flaked with pink on cream ground, making a rich and lovely effect. Flowers are of well-expanded grandiflora type, large in size and finely formed, borne on heavy, substantial stems. Oz., 5c.; ¼ lb., 15c.
 378. **LOVELY.**—The most beautiful soft-shell pink; grand flowers of large size. Ounce, 5c.; ¼ pound, 15c.
 379. **MAID OF HONOR.**—Standard white, shaded at top with lilac; wings white, very lightly shaded with lavender; rim of both standard and wings deep lilac; medium size, hooded form. Ounce, 5c.; ¼ pound, 15c.
 380. **MARS.**—Bright, fiery crimson, deepening with age; a large, round, expanded standard. Ounce, 5c.; ¼ pound, 15c.
 381. **MRS. ECKFORD.**—Color a peculiarly delicate shaded primrose yellow; decidedly pretty.
 382. **MRS. GLADSTONE.**—On opening the flowers are buff and soft pink, changing to a beautiful pale bluish; standard pink, deepening in color at the base, and wings flesh-tinted. Ounce, 5c.; ¼ pound, 15c.
 383. **MRS. JOSEPH CHAMBERLAIN.**—Rose, striped on white on both standard and wings; very large size, hooded form of best type. One of largest varieties. Oz., 5c.; ¼ lb., 15c.
 384. **MRS. SANKEY.**—Black seeded; large white flower, changing to blush. Ounce, 5c.; ¼ pound, 15c.
 385. **PRIMA DONNA.**—Lovely soft rose pink, of large size and fine form; a gem. Ounce, 5c.; ¼ pound, 15c.
 386. **PRINCE EDWARD OF YORK.**—Standard scarlet with tint of crimson; wings crimson; large size, open form; standard is round and wavy on edges. Ounce, 5c.; ¼ pound, 15c.
 387. **PRINCESS BEATRICE.**—Flowers of a clear and beautiful carmine rose, slightly shaded. Ounce, 5c.; ¼ pound, 15c.
 388. **PRINCESS OF WALES.**—Color white ground, shaded and tinged with mauve. Ounce, 5c.; ¼ pound, 15c.
 389. **QUEEN OF THE ISLES.**—Standard crimson scarlet; wings crimson, both striped on white. Ounce, 5c.; ¼ pound, 15c.
 390. **RED RIDING HOOD.**—Standard light crimson and whitish green; wings bright crimson and not fully expanded. Ounce, 5c.; ¼ pound, 15c.
 391. **ROYAL ROBE.**—Standards a rich but delicate pink; wings a soft bluish pink. Ounce, 5c.; ¼ pound, 15c.
 392. **SHAHZADA.**—Flowers of large size and fine, expanded form; coloring rich dark maroon, with a tint of purple in the center of the standard and the inner portion of the wings. Ounce, 5c.; ¼ pound, 15c.
 393. **STANLEY, OR BLACK KNIGHT.**—A deep maroon; a large and very handsome flower of the finest form and abundance. Ounce, 5c.; ¼ pound, 15c.
 394. **THE SENATOR.**—Large flowers, shaded chocolate and bright brown, and striped on a creamy white ground color; mottled and blotched in every conceivable manner. Ounce, 5c.; ¼ pound, 15c.
 395. **VENUS.**—Salmon buff; the standards delicately shaded with rosy pink. Ounce 5c.; ¼ pound, 15c.
 396. **G. & T. CO.'S EXTRA FINE MIXED.**—This is a splendid mixture of our own, which includes nearly all the above varieties. Ounce, 5c.; ¼ pound, 15c.; pound, 40c.
 397. **ECKFORD'S LARGE FLOWERING MIXED SWEET PEAS.**—Contains some of each of our entire list of Eckford's varieties. Ounce, 5c.; ¼ pound, 15c.; pound, 40c.
- ### CUPID DWARF SWEET PEAS
398. **PINK CUPID.**—Standard bright rose pink; wings either pure white or blush. The seed is black and germinates readily; a thrifty grower and continuous bloomer. Packet, 5c.; ½ ounce, 20c.
 399. **WHITE CUPID.**—Pure white flowers. Packet, 5c.; ounce, 20c.
 400. **BEAUTY CUPID.**—Packet, 5c.; ounce, 20c.
 401. **PRIMROSE CUPID.**—Packet, 5c.; ounce, 20c.
 402. **ALICE ECKFORD.**—Packet, 5c.; ounce, 20c.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

PLANT DEPARTMENT

VEGETABLE PLANTS

WE are now prepared to furnish all kinds of Vegetable and Flowering Plants at short notice. All of our plants are grown especially for us, and we are in a position to offer our patrons THE MOST COMPLETE ASSORTMENT TO BE FOUND IN THIS COUNTRY IN ANY ONE ESTABLISHMENT, AND AT PRICES AS LOW AS SAME QUALITY OF GOODS CAN BE OBTAINED ANYWHERE. Want of space forbids naming all varieties. Cash must accompany all orders. We do not ship plants C. O. D.

BEEF.—Eclipse, Crosby, Egyptian, 40c. per 100; \$2.00 per 1000. By express not prepaid. Add 10c. per 100 if by mail. Special prices on 10,000 lots.

BRUSSELS SPROUTS.—50c. per 100; \$2.50 per 1000. By express not prepaid. Add 10c. per 100 if by mail.

CABBAGE.—All the leading varieties. From December 1st to May 1st, frame grown. 40c. per 100; \$1.25 per 500; \$2.00 per 1000. Field grown, from May 1st to December 1st. 30c. per 100; \$1.25 per 500; \$1.75 per 1000. By express not prepaid. Add 10c. per 100 if by mail. Special prices in 10,000 lots.

CAULIFLOWER.—Early Snowball, 75c. per 100; \$4.00 per 1000. By express not prepaid. Add 10c. per 100 if by mail.

CELERY.—All the leading varieties. 40c. per 100; \$1.25 per 500; \$2.00 per 1000. By express not prepaid. Add 10c. if by mail. Special prices in 10,000 lots.

EGG PLANT.—Imp. Baltimore from seed bed. 50c. per 100; \$4.00 per 1000. Pot grown—50c. per dozen; \$4.00 per 100. By express not prepaid. Add 10c. per 100 if by mail.

ALL OF ABOVE SEED BED PLANTS.

KOHLRABI.—Early White Vienna, 50c. per 100; \$3.00 per 1000. By express not prepaid. Add 10c. per 100 if by mail.

LETTUCE.—Ready at all seasons. All the leading varieties. 30c. per 100; \$1.25 per 500; \$2.00 per 1000. By express not prepaid. Add 10c. per 100 if by mail. Special prices in large quantities.

PARSLEY.—For fall planting. Large strong roots. \$1.00 per 100; \$4.00 per 1000. By express not prepaid. Add 10c. per 100 if by mail.

PEPPER.—20c. per dozen; 50c. per 100; \$3.00 per 1000. By express not prepaid. Add 10c. per 100 if by mail.

SWEET POTATO.—50c. per 100; \$1.50 per 500; \$2.75 per 1000. By express not prepaid. Add 10c. per 100 if by mail.

TOMATO.—All the leading varieties. Ready February 1st, small plants for transplanting—\$1.50 per 1000. Ready April 1st, cold-frame plants—40c. per 100; \$1.25 per 500; \$2.00 per 1000. By express not prepaid. Add 10c. per 100 if by mail. Special prices in quantities.

Cash must accompany all orders for plants.

GREENHOUSE POTTED PLANTS

PRICES ON 100 AND 1000 BY EXPRESS NOT PREPAID.

Our collection of Greenhouse Potted Plants has been very carefully revised, and the varieties have been selected with great care, cutting out those of lesser value. Our Cannas, Chrysanthemums, Dahlias, Geraniums, Roses, etc., may appear small, but we wish to present to our friends a condensed list of nothing but the best, and avoiding a long list, which only tends to confuse the buyer. Other varieties, however, possess merit, and a further descriptive list can be had on application. Will state in passing that we can furnish most anything in this line.

We do not deliver plants free by express; the purchaser pays the charges, and unless instructed to the contrary, orders will be forwarded by express.

Orders for plants will be forwarded at the proper time for planting, according to variety.

BEGONIAS

These are now among the most popular plants for beds of summer flowers. Nothing can exceed the brilliancy and richness of their flowers. From the time the first blossom appears until all growth is stopped by frost they are never out of bloom.



SPECIMEN PLANT FLOWERING BEGONIA.

ERFORDIA.—Red foliage and flower.

GRACILIS.—White and pink foliage and flower.

ALBA.—White flowers tinted delicate pink.

ROSEA.—Beautiful light begonia pink.

10c. each. \$1.00 per dozen.

Alternanthera

A beautiful class of dwarf plants growing only 6 inches high, admirably adapted for forming letters, ribbon lines, edgings or bed.

BRILLIANTISSIMA.—New brilliant scarlet.

CARROLL PARK.—Pink.

PROSPECT PARK.—Dark shades of red.

AUREA NANA.—Bright golden yellow.

PARONYCHOIDES MAJOR.—The best red.

ROSEA NANA.—Rosy crimson.

VERSICOLOR.—Chocolate, green and red.

Plants, each, 10c. Per dozen, \$1.00.

By express, not prepaid, per 100, \$6.00.

KAEMPFERI

(JAPANESE IRIS.)

These magnificent Japanese Iris are among the most beautiful of our summer flowering plants, and are destined to become great favorites.

They commence flowering early in July, and continue in bloom for five or six weeks, if plentifully supplied with water while growing and flowering. Each, 15c.; by mail, 20c. Four for 50c.; \$1.25 per dozen; by express, not prepaid.

SPANISH IRIS.

Excellent for pot culture and are now being grown for cut flowers. Plant in the open ground in autumn and protect slightly during the winter months. Early in April cover the beds with glass, and the flowers will be ready for cutting in May. Per clump, 10c.; per dozen clump, \$1.00. By mail, add 5c. each.

IRIS



CANNAS

Few flowering plants combine so many fine qualities as the modern Canna—a race of sub-tropical bulbous plants, of most easy culture, rapid reproduction and good keeping qualities. The floral world has been astonished by their luxuriance of foliage and gracefulness of bloom, which is of immense size, borne in large masses and trusses, combining in color the brightest and richest shades of yellow, red, orange and scarlet, bringing them to the front as the finest ornamental plant in commerce. Useful for garden, greenhouse or sitting-room.

KING HUMBERT KING OF ALL CANNAS

Giant Flowered. Orange Scarlet. Bronze Leaf.

This remarkable Canna has been the sensation of the past several years. Of all the wonderful flowering and foliage plants introduced, this one takes the lead for size, color and habit. It is a cross between the Orchid flowering and the French or Crozy type, combining the best features of both—the large flowers of one with the free blooming character of the other; the handsome leathery foliage with a strong, noble habit. It has the broadest leaves.

It is so distinctly in advance of any other Canna that the demand for and use of it must be universal. Potted plants only. Height, 4 to 5 feet. Price, 25c. each; 3 for 65c.; one dozen, \$2.50.

Select Varieties

JEAN TISSOT.—An intense brilliant vermilion, with bright orange shading. It is one of the brightest of the large-flowered Cannas, massive green foliage of uniform growth, about 5 feet high.

PRESIDENT MEYERS.—Rich cherry carmine, immense trusses of large flowers, bronzy foliage; about 4 feet high.

LOUISIANA.—A strong vigorous growing variety, producing a dense mass of glossy green foliage, large vivid scarlet flowers often measuring seven inches across; about 7 feet high.

PENNSYLVANIA.—Produces very large flowers of a bright vermilion scarlet, overlaid with an orange sheen, remarkably free flowering; about 6 feet high.

BUTTERCUP.—Deep buttercup yellow, almost pure, the finest yellow, foliage deep green; about 3 feet high.

Started plants, from 3 in. Pots. 15c. each. \$1.50 per doz.
Dry Roots 10c. each. 1.00 per doz.
By express, not prepaid.



KING HUMBERT CANNA.

Standard Varieties

J. D. EISELE.—Bright vermilion scarlet; about 4 feet high.

EGANDALE.—Bronze foliage, currant-red flowers; about 4 feet high.

ALPHONSE BOUVIER.—Crimson; about 6 feet high.

MME. CROZY.—Bright scarlet golden border; about 4 feet high.

FLORENCE VAUGHAN.—Green foliage, rich golden yellow, dotted red; about 4 feet high.

QUEEN CHARLOTTE.—Crimson scarlet, canary yellow border; about 3½ feet high.

Started plants, from 3 in. Pots. 10c. each. \$1.00 per doz.
Dry Roots 5c. each. .50 per doz.

By express, not prepaid.

Small quantities of the above plants may be mailed for an additional 3c. each for postage.

Mixed Canna roots, in splendid variety, our selection: 5c. each; per doz., 35c.; per 100, \$2.75, by express, not prepaid. If by mail, add 3c. each extra for postage.

COLEUS

TEN CHOICE VARIETIES.

10c. each; 75c. per doz.; \$4.00 per 100, by express, not prepaid.

BECKWITH GEM.—Scalloped edge, center bright soft crimson maroon, bordered green and gold.

ELDORADO.—Orange yellow, ribbed and blotched very dark maroon.

FIREBRAND.—Bright maroon, flamed and shaded vivid glowing scarlet.

GOLDEN BEDDER.—Standard yellow bedder.

HERO.—Almost jet black, leaves pointed and scalloped.

LORD PALMERSTON.—Dark maroon center, with dark crimson ribs.

QUEEN VICTORIA.—Bright cardinal red, with distinct bright golden border.

VERSCHAFFELTIL.—Standard crimson variety.

CHRYSANTHEMUMS

Hardy Pompone

These beautiful small-flowered varieties are certain to become popular for outdoor bedding purposes. They are absolutely hardy and produce an abundant profusion of blooms, and the plants lend a coloration to the garden just at a time when other plants have been destroyed by frost and are looking their worst. Frost does not materially affect the flowering, and it will frequently happen that an armful of flowers can be cut after a sharp frost. The collection we offer embraces all the leading colors, and, with but a slight covering of leaves or coarse stable litter during the winter, will take care of themselves after once planted.

- Alice Cary—Orange.
- Asbury—Sulphur White.
- Boston—Bronze Scarlet.
- Bohemia—Pure Fine Yellow.
- Cerise Queen—Cerise Pink.
- Dawn—Daybreak Pink.
- Ermine—Bright Orange Scarlet.
- Fred. J.—Red Orange.
- Henrietta—Rose Pink.
- Hijos—Primrose Pink.
- Jannett—Orange Edged Scarlet.
- Julia Lagravere—Crimson.
- Little Pet—Rich Violet Red.
- Montclair—Red Orange, Yellow Center.
- Mrs. Porter—Bright Bronze.
- Peto—Terra Cotta Red.
- Queen of Bul—Violet Rose.
- Queen of Whites—Fine Creamy White.
- Rhoda—Pink Shaded White.
- Rufus—Crimson Maroon.
- Salem—Clear Silver Pink.
- Stratagem—Dark Red Orange.
- Sunshine—Pure Yellow.
- Tivoli—White Edged Rose.

Price, 10c. each; per dozen, 75c.; per 100, \$5.00, by express, not prepaid.



Nitrogen Culture or Nitrogen-Collecting Bacteria

THE UNITED STATES DEPARTMENT OF AGRICULTURE SAYS:

"It is worse than useless to attempt to grow any leguminous crop without being certain of the presence of the bacteria which enables the plants to fix free nitrogen. Certain regions are practically devoid of the right kind of bacteria, and unless some artificial means of inoculating the germs be resorted to the crop will be a failure."

Where intelligently applied, and the application made where nitrogen is needed, all other things being equal, without an exception the results have been most flattering, and we feel justified in continuing to place this material on the market.

Cultures are furnished for the following named seeds only: (Those carried out on the same line require the same bacteria.)

- | | |
|---------------------------------|---|
| Alfalfa, or Lucerne. | Cow Peas, Whip O' Will Peas and Clay Peas. |
| Red Clover. | Garden Beans, including Kidney, Wax, String, Lima and Pea Beans, and other legumes. |
| Alsike Clover, White Clover. | Soy Beans. |
| Crimson Clover. | Velvet Beans. |
| Japan Clover. | Vetch. |
| Field Peas (Canada Field Peas). | Peanuts. |
| Garden Peas. | |
| Sweet Peas. | |

PRICES:—Special Garden Package, each, 25c.; ½ acre, \$1.00; 1 acre, \$1.50; 2 acres, \$2.50; 3 acres, \$3.00; 5 acres, \$5.00; 20 acres, \$18.00, and 50 acres, \$40.00.

Always state when ordering the kind of seed to be inoculated, as well as number of acres. This will save much delay and trouble.

FARMOGERM

HIGH-BRED NITROGEN GATHERING BACTERIA.

"Makes Poor Soil Good Soil."

Differs from Nitrogen Culture only in the method in which it is prepared and shipped, while with Nitrogen Culture the Bacteria are put up in absorbent cotton and shipped in a dry state; the **FARMOGERM** is shipped in bottles on a semi-liquid or jelly-like food, and ready for use immediately by simply adding clear water, as per directions. In all things else, the application to the seed and to the land are the same.

FARMOGERM is prepared for the following legumes or pod-bearing plants: Alfalfa, Alsike, Crimson Clover, Red Clover, White Clover, Canadian Field Peas, Cow Peas, Soy Beans, Velvet Beans, Vetch, Peanuts, Garden Beans, Garden Peas, Sweet Peas, etc., at \$2.00 per acre. Can supply in garden sizes a mixed culture, Garden Peas, Garden Beans and Sweet Peas at 50c. a bottle, or either separately at the same price each.

When ordering always state for what crop and number of acres **FARMOGERM** is wanted.

Acres, \$2.00. Garden size, 50c.

Special prices in large quantities.



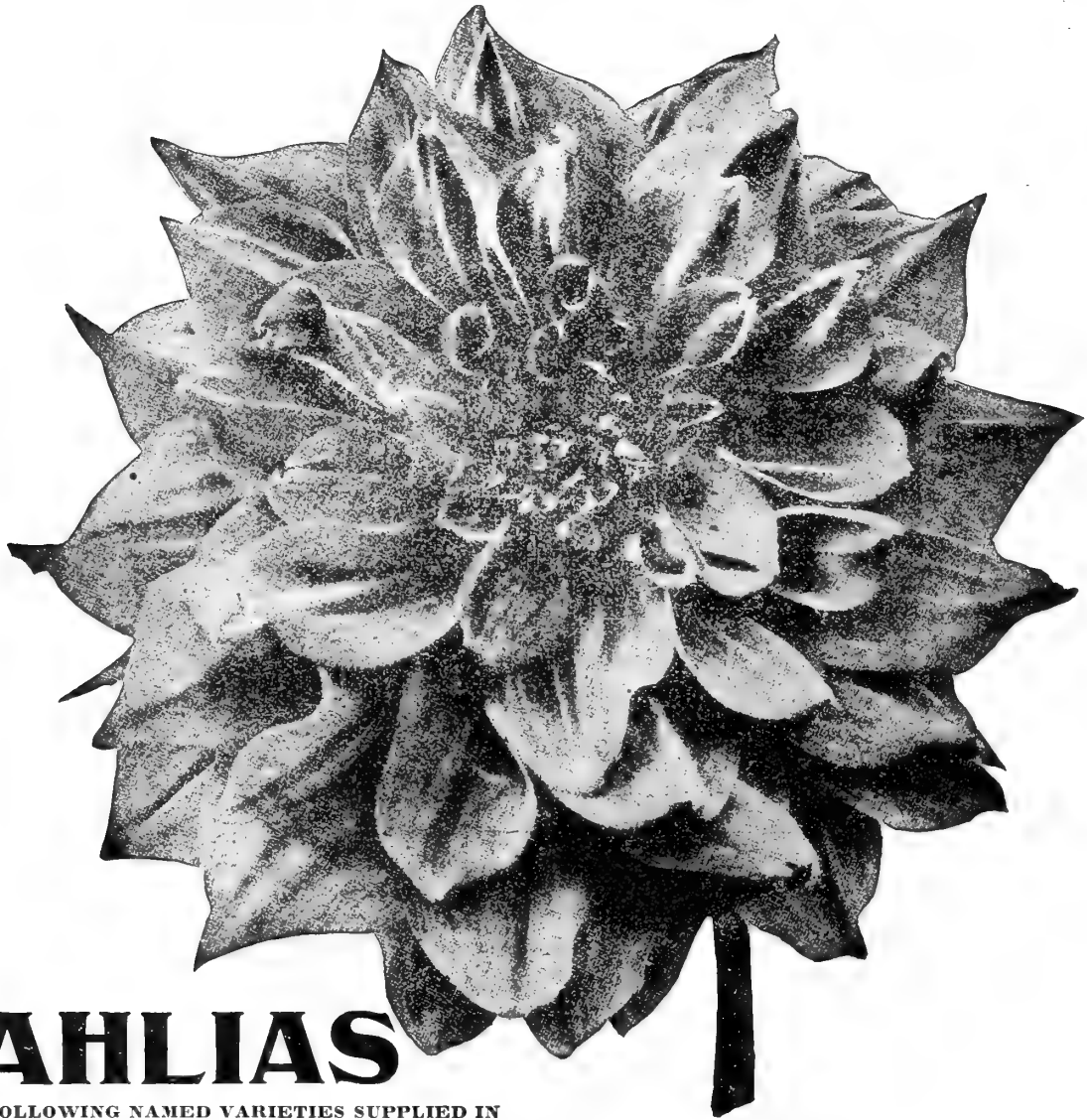
Send For the

"AMERICAN STANDARD OF PERFECTION"

The Most Authentic Poultry Book Published. Much Sought After by Poultrymen Generally.

\$1.50. Postage, 10c. Extra.

For Other Books, See Page 60.



DAHLIAS

THE FOLLOWING NAMED VARIETIES SUPPLIED IN
POTTED PLANTS ONLY. (Ready April 15th.)

Prices by the dozen and hundred are by express, not prepaid.

Collection of Double Giant Flowering

SOUV DE GUSTAVE DOUZON.—(See cut $\frac{3}{4}$ original size). This dahlia should be seen in nature to be fully appreciated. When perfect the bloom measures 7 inches across, with some of its petals 3 inches long by $1\frac{1}{2}$ inches wide, and it should be called the king of all. The color is an attractive shade of orange-red flowers of fine and symmetrical form. All lovers of dahlias should have it in their collection.

CUBAN GIANT.—Full round form, dark glowing crimson, shaded maroon. Largest of all show dahlias.

GETTYSBURG.—A bright rich, pure scarlet; full round form.

MME. VAN DEN DEYL.—Immense size and beautiful form. Color soft shell pink and deeper markings. Profuse bloomer.

MRS. ROOSEVELT.—Beautiful blush white, shading to soft clear pink, of immense size and substance.

Price, 30c. each; 4 for \$1.00; per dozen, \$3.00.

Four New Peony—Flowered Dahlias

QUEEN WILHELMINA.—Immense fluffy flower of pure white, with yellow centre.

GERMANIA.—Brilliant strawberry-red, a very fluffy artistic flower, standing well above the foliage, producing a very gay effect.

GLORY OF BAARN.—Very large loosely-arranged flower, of soft hortensia-rose color.

QUEEN EMMA.—A magnificent sort that appears almost artificial; it is of a charming shade of mallow or Hollyhock pink, the inner petals banded with gold.

Price, 50c. each; set of 4 for \$1.50.

Fancy Varieties

ELOISE.—Distinct variety, full and regular; ground color of bluish pink, shading to white, having each petal margined with deep glowing crimson.

KAISER WILHELM.—Old gold, tipped orange scarlet.

KEYSTONE.—Pink, spotted and striped with crimson, of large size.

LUCY FAWCETT.—Canary yellow striped and blotched.

STRIPED BANNER.—Cardinal red, striped white.

PROF. MANSFIELD.—Rich yellow, clear white, tips rosy red.

MME. LUMIER.—Pale white, violet, red points.

Price, 15c. each; per dozen, \$1.50.

New Century Single Dahlias

CRIMSON CENTURY.—Rich deep velvety crimson, shaded maroon, with rose halo around a yellow disc.

GORGEOUS.—Brilliant, dazzling scarlet, without shade or blemish, except occasionally a stripe of white or a white petal.

PINK CENTURY.—Delicate shell pink, slightly suffused with deeper tint.

RECORD.—Clear yellow, each petal flamed and washed with scarlet.

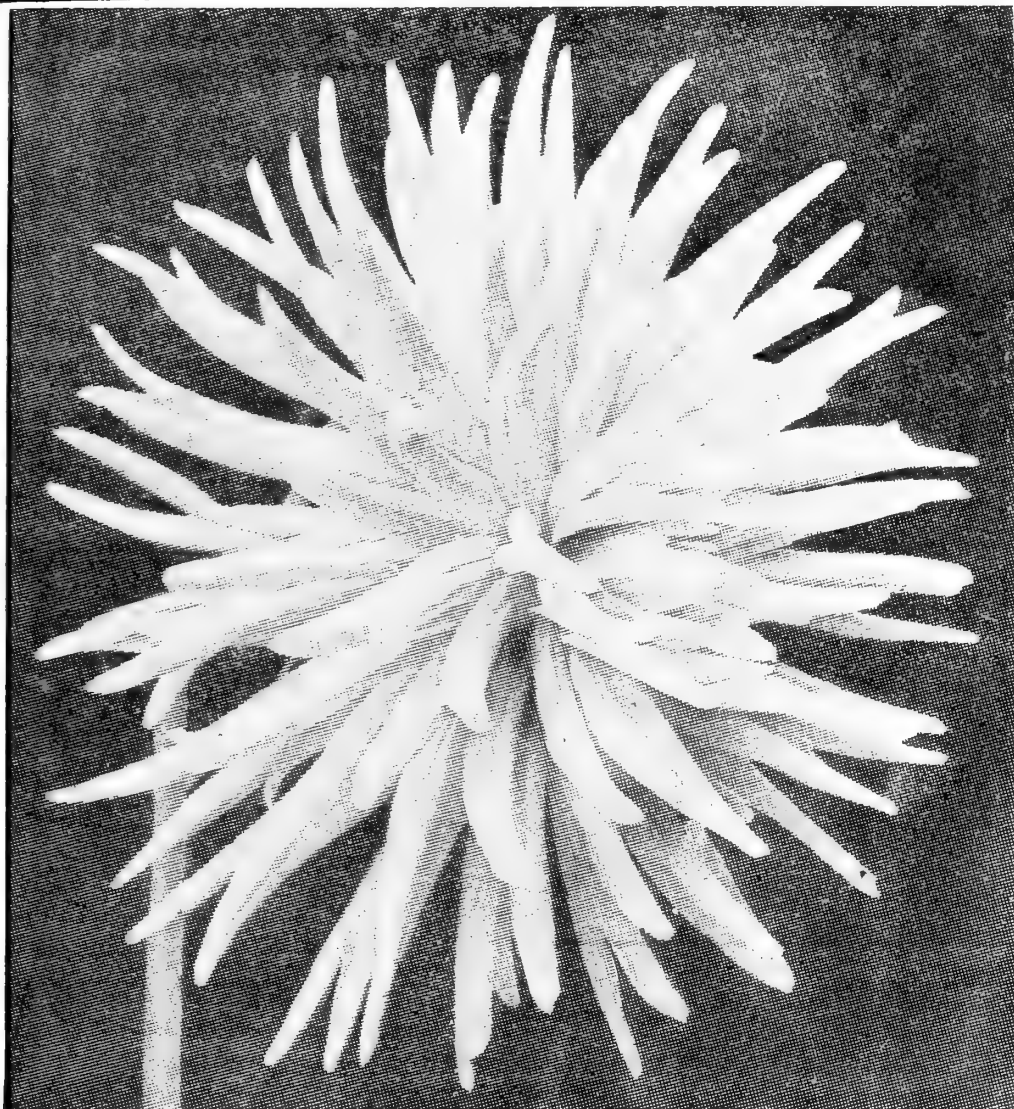
TWENTIETH CENTURY.—Color an intense rosy crimson, tipped with white, and having white disc around the yellow center.

WHITE CENTURY.—Pure white with yellow disc; large overlapping petals of good texture.

SCARLET CENTURY.—Brilliant scarlet with golden disc.

MAROON CENTURY.—Rich velvety maroon with yellow disc. Price, 30c. each; 6 for \$1.50; per dozen, \$3.00.

DAHLIA ROOTS. in separate colors, not named varieties. Large clumps, 10c. each; \$1.00 per doz. by express, not prepaid.



CACTUS DAHLIA.

TWELVE BEST SHOW VARIETIES

- ARABELLA.**—Pale primrose, shaded old rose and lavender.
- A. D. LIVONNI.**—Seashell pink of perfect form.
- CAMELIA FLORA.**—Snow white, best for cut flowers.
- ELECTRIC.**—Pinkish lilac.
- JOHN ELITCH.**—Beautiful dark rich maroon, robust grower, with long stems.
- MAID OF KENT.**—Variegated crimson and white.
- FRANK SMITH.**—Dark rich maroon, tipped white.
- EMILY.**—Varying from rosy lavender to white.
- M. D. HALLOCK.**—Clear yellow.
- ORLANDO.**—Buff salmon shaded over amber.
- RUBY QUEEN.**—Rich dark maroon.
- ZEBRA.**—White, edged with bright lilac.

Price, 10c. each. \$1.00 per dozen.

POMPON VARIETIES

- ALLIE MOUREY.**—Very fine deep pink.
- LITTLE MAY.**—Bright golden yellow; free flowering.
- LELIA.**—Flesh mottled, deep crimson.
- RAPHAEL.**—Deep maroon of fine form.
- SNOW CLAD.**—Pure white dwarf.
- SUNSHINE.**—Vivid scarlet.

Price, 10c. each. \$1.00 per dozen. \$4.00 per 100.

COLLARETTE VARIETIES

- PRESIDENT VIGER.**—Deep blood red, shading darker toward base of petals, with white collar.
- ETENARD DE LYON.**—Bright velvety scarlet, collaret is yellow at the base, white at the tips.
- GALLIA.**—Bright rose, suffused and tipped scarlet, passing to sulphur yellow.
- PRINCE GALITZEN.**—Rich crimson with red tipped collaret; fern like foliage.

Price, 15c. each. \$1.50 per dozen.

NEW COLLECTION CACTUS DAHLIAS

The sorts named in this collection are selected from the latest varieties, imported during the past winter. Plants only.

- MASTER CARL.**—Clear orange salmon; of good substance.
- MR. F. GRIMSTEAD.**—Deep rich crimson with slight purplish shading.
- JULIET.**—Bright rosy pink shading to white center.
- GRACIE.**—Salmon red, with a sheen of purple.
- MRS. CHAS. SCOTT.**—Old gold shaded apricot; a most artistic and lovely flower.
- HOBBIES YELLOW.**—Bright golden yellow.
- INNOCENCE.**—Bright yellow base, broadly margined white.
- JESSIE.**—Beautiful deep rosy pink, white center.
- LORD OF THE MANOR.**—Bright crimson, base of the petals tinged yellow.
- MORNING GLOW.**—Deep primrose, tip tinged amber.
- ROYAL SCARLET.**—Bright scarlet; large and full.
- THOS. PARKIN.**—Bright terra cotta; incurved petals.

Price, 50c. each.

Standard Cactus Dahlias

- COUNTRESS OF LONSDALE.**—Lustrous salmon pink, blending with amber.
- J. H. JACKSON.**—Brilliant, very dark crimson maroon.
- LIBERTY.**—Very dark velvety red, shaded darker, showing a light reflex; very beautiful and attractive.
- KRIEMHILDE.**—Beautiful clear pink, shading lighter towards the center.
- MRS. H. J. JONES.**—Margin of petal deep crimson, with broad

stripe of white running through the center, blending harmoniously.

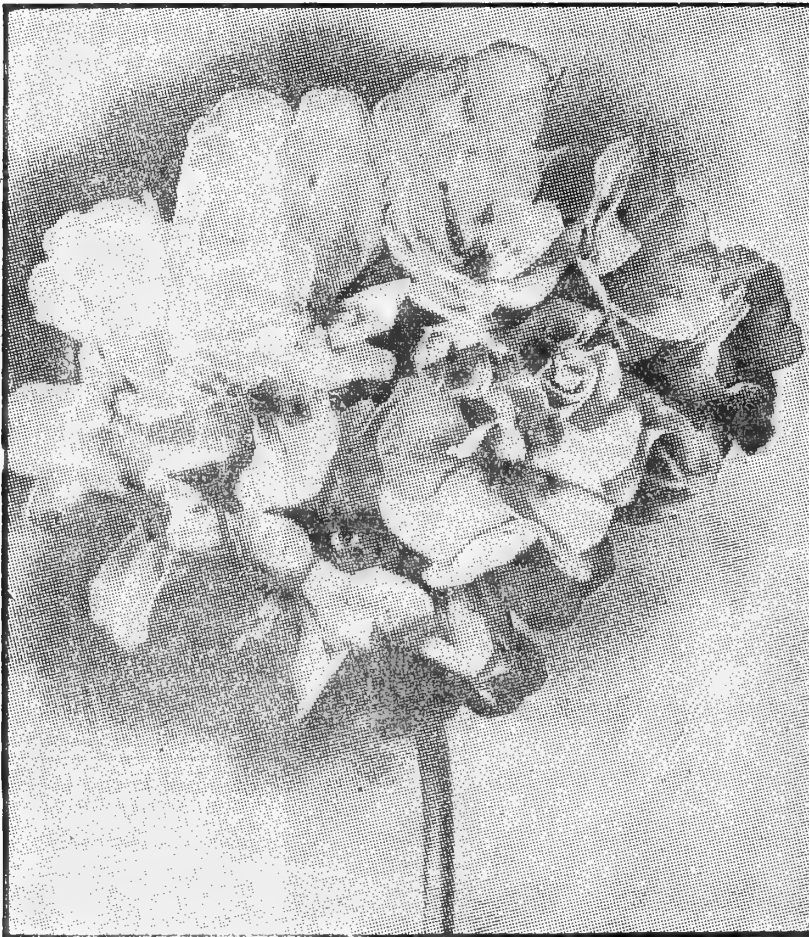
- VOLKER.**—Charming free flowering; pure yellow.
- WINSOME.**—Fine creamy white, of good size and form. Best for cut flowers.
- BRUNHILDE.**—Color, deep rich velvety plum.
- BRITANIA.**—Deep salmon fleshed. Early.
- GENERAL BULLER.**—Cardinal red, with crimson shadings; petals tipped with white.
- MRS. WINTERS.**—Finely formed, large snow-white variety.
- STROHLEIN KRONE.**—Tints cardinal red. Very beautiful.

Price, 10c. each. \$1.00 per dozen.

TWELVE BEST DECORATIVE VARIETIES

- BLACK BEAUTY.**—A grand deep maroon of distinct form.
- CLIFFORD W. BRUTON.**—Canary yellow of immense size; very vigorous grower; free bloomer.
- COUNTRESS OF PEMBROKE.**—Soft rosy lake.
- EUREKA.**—Deep rose, fine regular form, quilled petals, of dwarf branching habit. Early and profuse bloomer; long stems.
- BARON SCHROEDER.**—Rich glowing purple, light shading.
- JEAN CHARMANT.**—Pink, lilac at the edge, white towards the center.
- PRINCESS VICTORIA LOUISE.**—Deep rose pink.
- GRAND DUKE ALEXIS.**—Magnificent flower of large size. Pure white, delicately tinged with pale lavender; quilled petals; finest form and finish.
- HENRY PATRICK.**—Superb large pure white, petals broad and pointed, long stems. One of the finest.
- PERLE D'OR.**—Handsome white, spotted, blotched purple.
- MRS. HARTONG.**—Golden bronze.
- WM. AGNEW.**—Immense size, intense dazzling scarlet crimson, perfect form. Very profuse bloomer; a great favorite.

Price, 10c. each. \$1.00 per dozen. \$6.00 per 100.



ALLIANCE.

BEST STANDARD DOUBLE.

- ALPHONSE RICARD.**—Semi-double and dwarf. Color, bright vermilion scarlet.
- BERTHA DE PRESILLY.**—Semi-double; silver rose.
- BEAUTE POITEVINE.**—Semi-double; clear salmon pink, shading to bright salmon in the center.
- E. H. TREGO.**—Brightest scarlet.
- GENERAL GRANT.**—Bright vermilion scarlet.
- JEAN VIAUD.**—Brilliant rose pink, with white throat; semi-double flowers.
- LA PILOTE.**—Semi-dwarf variety, of bright vermilion scarlet.
- N. ANASTOLE ROSELEUR.**—A charming shade of rose pink, with a decided eye; semi-double.
- MARQ. DE CASTELLANE.**—Beautiful soft crimson, upper petals shaded with slight purple tinge; enormous semi-double flowers.
- MISS KENDALL.**—Exquisite dark cerise, shading to scarlet in the center.
- MME. RECAMIER.**—Semi-double large flowers; pure white.
- S. A. NUTT.**—Deep scarlet, with maroon shading, double. Price, 10c. each; \$1.00 per dozen.

FUCHSIAS

- MR. GLADSTONE.**—The largest double purple Fuchsia extant; enormous widespread corolla, and stamens are curiously attached to the petals; extremely free.
- MINISTER BOUCHER.**—Extra large double rosy purple flowers. Free, strong grower.
- BLACK PRINCE.**—Bright, waxy carmine; pink corolla.
- PHENOMENAL.**—Dark plum, red sepals.
- ANNA NEVILLE.**—Double pink sepals. 10c. each. \$1.00 per dozen by express, not prepaid.

LANTANAS

- An old favorite for bedding or individual plant purposes, but on account of the great improvement in shades in the last few years they are becoming more and more popular. 10c. each. \$1.00 per dozen by express, not prepaid.
- A. CLAVEN.**—Primrose pink and sulphur.
- A. COOK.**—Orange and rose; dwarf, compact habit.
- AURORA.**—Tall, orange and coppery red.
- DELICATISSIMA, or WEEPING.**—Lilac lavender.
- JAVOI.**—Tall; clear, pure white, yellow center.
- LEO DEX.**—Open orange scarlet; changes to dark crimson.

IVY GERANIUMS

ACHIEVEMENT.—Semi-double, large flowering; coloring, a distinct shade of salmon pink.

ALLIANCE.—Semi-double, color a most exquisite shade of delicate lilac white; upper petals feathered and blotched bright crimson rose.

CAESAR FRANCK.—Very popular; color, soft rich crimson, with an exquisite shading of tender rose at base of petals. Clean waxy rich green foliage.

MME. THIBAUT.—Beautiful rose pink; flowers large and round, magnificent trusses.

MRS. BANKS.—White, slightly tinted pink; large flowers, black blotches on upper petals.

PIERRE CROZY.—Bright scarlet; dwarf compact habit; good bedder.

Price, 10c. each; \$1.00 per doz.

NEW SINGLE GERANIUMS.

BARIOLAGE.—Dwarf; clear rose, lower petals spotted crimson, upper petals blotched white.

CLAIRE ALBANE.—Pure white, large flower, splendid grower.

MAXIME KOVALEVSKI.—Fine vigorous grower, large round flowers of brilliant orange.

MME. ANATASIE LECADRE.—Large trusses of well-formed flowers, carmine rose, center maculated white.

PAMELA.—Large white center, followed with a shading of rosy lake, bold outer margin of violet crimson; free flowering.

TEODOR DE WYZEWA.—Clear rich pink, large white center; splendid truss and abundantly produced.

Price, 25c. each; \$2.50 per dozen.

SIX BEST STANDARD SINGLE VARIETIES.

EUGENE SUE.—Brilliant orange scarlet; base of petals touched snow white.

MME. BRUANT.—Pure white, veined with carmine lake, often producing a striped effect. A very attractive variety.

MRS. E. G. HILL.—The center of each petal is a soft light salmon, bordered with rosy salmon. Semi-dwarf and of exceptionally fine habit.

PAUL CRAMPEL.—Dwarf and vigorous; brilliant scarlet, gigantic trusses.

SNOWDROP.—Pure snow white and a splendid pot plant; semi-dwarf.

TELEGRAPH.—Large single flowers, in rounded trusses, of a rich orange cerise, having dark green foliage, with dark olive zone.

Price, 15 cents each. \$1.50 per dozen.

SIX NEW DOUBLE VARIETIES.

COLONEL THOMAS.—Violet crimson; large flowers and trusses; strong grower, excellent habit.

JEAN OBERLE.—Grand flowers and excellent trusses; white, center aurora rose, shaded tender salmon.

JULES VASSUER.—Large semi-double flowers; vermilion scarlet, distinct white, eye, slight violet shading on upper petals.

ORNELLA.—Semi-double; deep rich scarlet, slightly shaded crimson; splendid flower and truss.

REVE D'OSSIAN.—Exquisite shade of nymphae white, with a tender shading of rose; grand semi-double flowers.

ROI EDOUARD.—Immense semi-double flowers, rosy lake feathered white.

Price, 25c. each; \$2.50 per dozen.

VERBENA—LEMON

VERBENA.—Large flowering, in scarlet, pink, white and purple varieties.

Price, 10c. each; \$1.00 per dozen by express, not prepaid.

HARDY ENGLISH IVY

PARLOR, or GERMAN IVY.—A tender climber and the best vine for the window garden at all seasons.

Price, 10c. each; \$1.00 per dozen, by express, not prepaid.

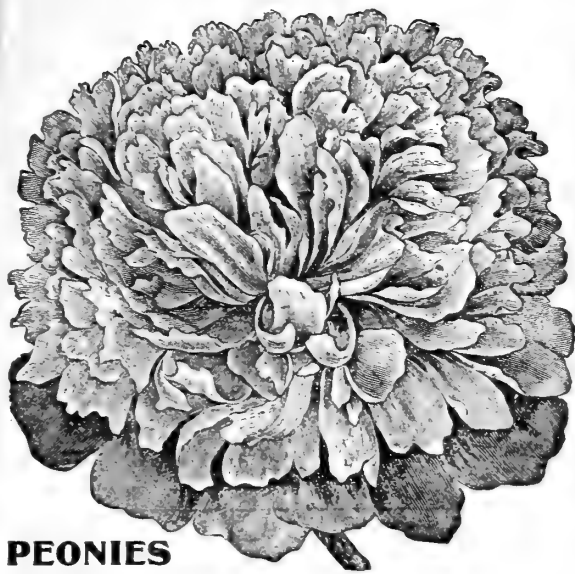
HELIOTROPE

Each, 10c. Per dozen, \$1.00, by express, not prepaid.

LOBELIA

KATHLEEN MALLARD.—The new double blue Lobelia. Price, 15c. each. \$1.50 per dozen.

CRYSTAL PALACE GEM.—Price, 10c. each. \$1.00 per doz., by express, not prepaid.



PEONIES

One of the most popular hardy plants grown for lawn and garden decoration.

- DOUBLE CRIMSON.**
- DOUBLE WHITE.**
- DOUBLE ROSE.**

Price, 25c. each; \$2.50 per dozen. Postage extra, 5c. each, if wanted by mail.



SILVER SPOT.

Scarlet Sage

The most distinct feature of this novelty is its striking and handsome spotted foliage. The leaves are covered with sulphur-yellow spots of various sizes; flowers are bright scarlet and large size, 10c. each; \$1.00 per dozen; \$6.00 per 100.

SCARLET SAGE, OR SALVIA CLARA BEDMAN OR BONFIRE.—Dwarf. The fire-like appearance of the flowers standing erect among the green foliage gives the plant a most gorgeous appearance. 10c. each; \$1.00 per dozen; \$6.00 per 100.

SALVIA, ZURICH.—Dwarf, same color as Bonfire, but larger flowering. Price, 15c. each; \$1.50 per dozen.

SCARLET SAGE, OR SALVIA SPLENDENS.—Tall, erect, green foliage. The well-known Salvia. 10c. ea.; \$1.00 per doz.; \$6.00 per 100.



YUCCA

A hardy evergreen plant with long, narrow leaves that are bright green the whole year. The flowers are creamy white, bell-shaped, produced on long spikes 3 to 4 feet high. Fine, stately lawn plant.

FILAMENTOSA GLORIOSA (Adam's Needle).—Price, one year old, 10c. each, postpaid.

Extra large plants, 25c. each, by express, not prepaid.



HARDY PHLOX

- ANDREAS HOFFER.**—Pure white.
 - AQUILON.**—Crimson rose, shaded salmon, crimson eye.
 - BACCHANTE.**—Fine, dark crimson.
 - BERANGER.**—White, suffused with pink.
 - BRIDESMAID.**—Pure white, large crimson eye.
 - COQUELICOT.**—Pure scarlet, carmine eye.
 - LA NUIT.**—Crimson purple.
 - LA VOGUE.**—Rose pink.
 - MARIE STUART.**—White, pink eye; an early bloomer.
 - MATADOR.**—Orange scarlet, red eye.
 - R. P. STRUTHERS.**—Brilliant rosy red, crimson eye.
- Price, 10c. each; \$1.00 per dozen, by express.

FICUS

RUBBER PLANT.

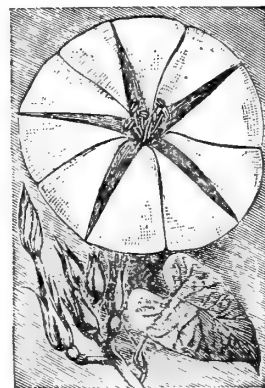
FICUS ELASTICA (India Rubber Tree).—The large shining green leaves endure the dry air of a living room as well or better than any other plant. This is why everybody likes it. Our plants are very choice. Plants 1 foot high, each, 50c. by express, not prepaid.

MOON FLOWERS

Grow and bloom with everyone. If planted out in rich ground, where they have full exposure to the sun, they will attain a height of 40 feet by October 15, blooming all summer.

IPOMEA GRANDIFLORA.—White Moon-flower. Price, 10c. each; \$1.00 per dozen.

IPOMEA.—Blue Dawn Flower. Price, 10c. each; \$1.00 per dozen.



MOON FLOWER.

PETUNIA

For outdoor decoration or house culture few plants equal the Petunia in effectiveness. They commence flowering early and continue a sheet of bloom throughout the whole season until killed by frost; easily cultivated, only requiring a good soil and sunny position.

SUPERB SINGLE OR DOUBLE FRINGED.

10c. each; \$1.00 per dozen, by express, not prepaid.

SWAINSONA—CALEGIFOLIA ALBA.—Pure white flowers, in sprays from 12 to 20 flowers each, the individual blooms resembling a Sweet Pea. It is of easy culture, growing in almost any light position.

Price, 15c. each; \$1.50 per dozen.

HARDY WATER LILIES

The ease with which Water Lilies and Aquatics are cultivated, the certainty of handsome results the same season they are planted, the magnificent flowers of great variety of form and color, their delicate perfume and the great fascination in growing them, is making the water garden widely popular.

These require a water-holding receptacle about 2 or 3 ft. deep, a warm sunny location, some rich soft soil and an available supply of water to make up for the loss by evaporation.

Ready as soon as weather permits transferring.

NYPHEA ODORATA.—The well-known fragrant pond lily; lovely pure white flowers. 15c. each; 4 for 50c.; \$1.25 per dozen.

NYPHEA ODORATA GIGANTEA.—A superb variety, and should be in every collection. Similar in all respects to Nymphaea Odorata; flower very large and full. 15c. each; 4 for 50c.; \$1.25 per dozen.

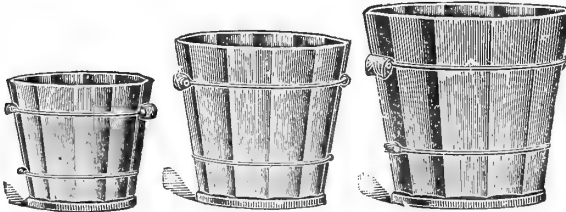
NYPHEA ODORATA MINOR.—Our native pond lily. 15c. each; 4 for 50c.; \$1.25 per dozen.

PINK CAPE COD WATER LILY.—Possesses all desirable qualities of Nymphaea Odorata. Flowers, large size; cup-shaped; color, lovely deep pink; delicious fragrance; free bloomer; most desirable variety. 40c. each; \$3.50 per dozen.

Four or more of the above by express not prepaid.



PLANT TUBS



COLUMBIA, No. 1 PLAIN.

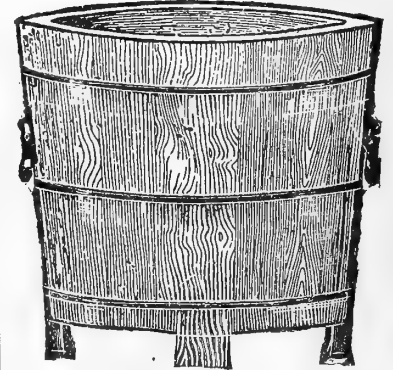
Made of cypress. Natural varnish finish on the wood, or if wanted can finish them in oil paint, but to order only.

- 12 inches in diameter by 11 inches high.... Each **\$1.00**
- 15 inches in diameter by 14 inches high.... Each **1.50**
- 18 inches in diameter by 16½ inches high... Each **2.00**
- 21 inches in diameter by 18½ inches high... Each **2.50**
- 24 inches in diameter by 20½ inches high... Each **3.00**

Small Wood Flower Tubs

	Top Diam. Inches.	Deep. Inches.	Weight Pounds.	Price.
A...	8	9	2	\$.45
B...	11	9	3	.50
C...	11	12	3½	.65
D...	12	12	4½	.85

U. S. PLANT TUBS



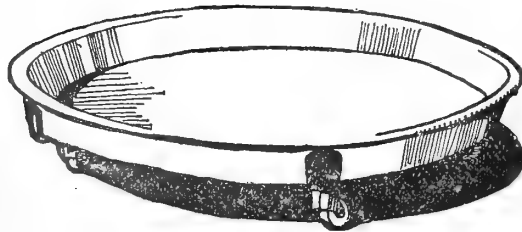
Cedar, Painted Green.

No.	Diameter.	Depth.	Price.
No. 1....	13½ in.	12 in.	\$1.00
No. 2....	14¾ in.	14 in.	1.25
No. 3....	16 in.	16 in.	1.75
No. 4....	19 in.	18 in.	2.50
No. 5....	21 in.	20 in.	3.00
No. 6....	25 in.	22 in.	4.00

INDURATED FIBRE WARE

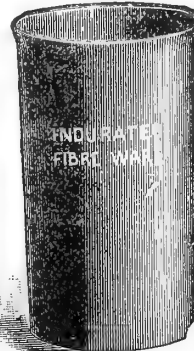
A light, strong material, impervious to moisture, moulded into one piece, seamless and rust-proof. Finished in a rich mahogany color.

Fibre-Ware Rolling Stand



Fibre-ware rolling stands are mounted upon ball-bearing casters and furnish an easy and ready means of moving heavy plants in permanent or temporary locations.

Outside Diameter.	Will take tub diameter at bottom.	Price each.
16 in.....	13 in.....	\$1.25
18 in.....	15 in.....	1.40
20 in.....	17 in.....	1.70
22 in.....	20 in.....	2.10



Florists' Vases

For displaying cut flowers.

Diameter.	Depth	Price inside.
4½ in.....	15 in.....	.60c.
5½ in.....	18 in.....	.75c.
8 in.....	13 in.....	.85c.

Fibre Flower Pot Saucers



Cleaner and more durable than pottery.

Diameter.	Price Each.	Per 100.
6 in.....	.14c.	\$11.50
7 in.....	.15c.	12.50
8 in.....	.16c.	13.50
10 in.....	.18c.	15.50
12 in.....	.20c.	18.50

BULBS FOR SPRING PLANTING



GLADIOLUS.

GLADIOLUS

If wanted by mail, add 10c. per doz. for postage.

THE cultivation of the Gladiolus is very simple, as they will thrive in any good garden soil, but will amply repay one for careful cultivation. A succession of bloom may be had from July to September by planting at intervals from April to June.

OUR GLADIOLUS are from one of the largest growers in the country, and one who has the finest assortment to be had either in this country or Europe; therefore we claim them to be unexcelled as to quality.

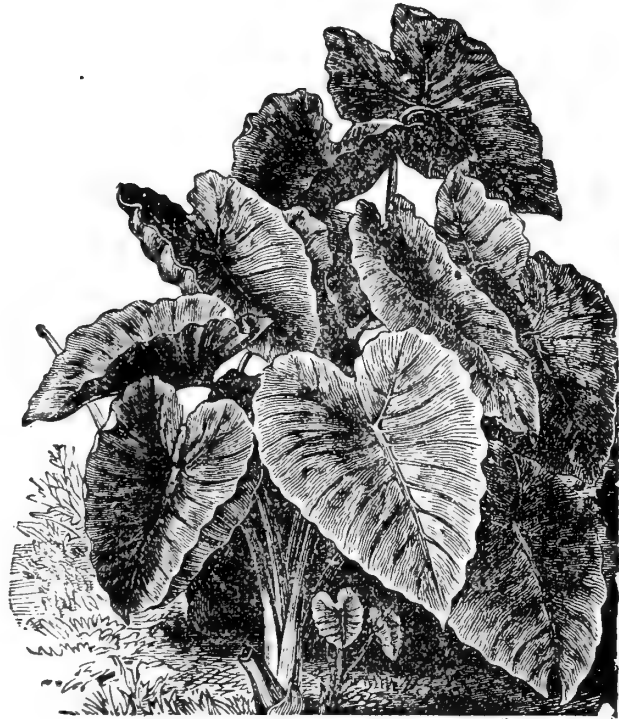
MIXED (all colors).—Dozen, 25c.; \$1.50 per 100.

WHITE AND LIGHT COLORS.—Dozen, 30c.; \$2.25 per 100.

LEMOINE'S (Mixed).—Extra fine. 35c. per dozen; \$2.75. per 100.

CHILDSI MIXED.—Extra large and fine. 40c. per dozen; \$3.00 per 100.

EXTRA WHITE AND LIGHT VARIETIES.—All first-class varieties, made up largely from best named sorts, including 10 per cent. of Snow White. 5c. each; 50c. per dozen; \$3.50 per 100.



CALADIUMS

ELEPHANT'S EAR.

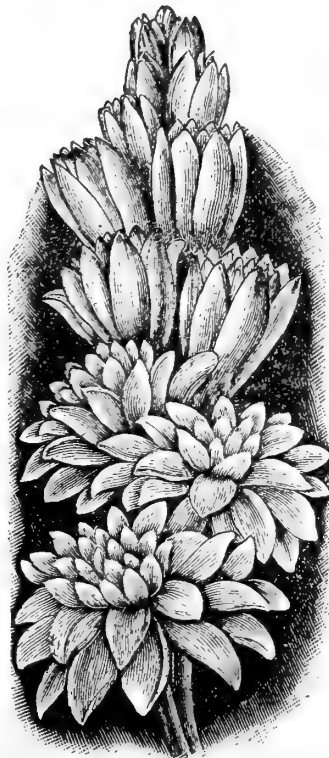
THE Caladium Esculentum is one of the handsomest of the ornamental-leaved plants. It will grow in any good garden soil, and is of the easiest culture. To gain the best result it should be planted where it will obtain plenty of water and an abundance of rich compost. Roots planted in the spring will make good growth in the summer, and in the fall they should be taken up and stored in a cellar. Leaves three feet or more in length and nearly as broad. There is nothing so good as this Caladium for a grand bed of foliage in the garden.

FIRST SIZE BULBS (7 and 9 inches).—Each, 5c. By mail, 10c. 50c. per dozen.

LARGE BULBS (9 and 11 inches).—Each, 10c. By mail, 15c. 75c. per dozen.

EXTRA LARGE BULBS (11 inches and upwards).—Each, 15c. By mail, 20c. \$1.25 per dozen.

Prices per dozen are by express, not prepaid.



TUBEROSES

ONE of the most fragrant and popular of the summer flowering bulbs. May be started early in hot beds or pots, or planted in open ground after first day of May.

Each \$.05
Dozen25
Per 100 1.00

By mail, 35c. per dozen.

MADEIRA VINE ROOTS

Each \$.05
Dozen30

SELECT EVER-BLOOMING ROSES



THE BRIDE.—A superb white tea rose; one of the best of its color. Flowers finely formed, large and full and deliciously perfumed; a strong, healthy grower in open ground or greenhouse and a constant bloomer. Specially fine for floral work.

MAMAN COCHET (Tea).—A beautiful new Tea Rose. One of the very best and most valuable roses of recent introduction, especially for outdoor blooming. The finest pink garden rose yet introduced. The flowers are of great size and very double; color, bright rose.

PRICES (except where otherwise noted):

Two Years Old —	
Each	\$.50
One doz. choice mixed (by exp., not prepaid)	5.00
1 Year Old —	
Each	\$.25
One doz. choice mixed (by exp., not prepaid)	2.75
Six Months Old —	
Each	\$.15
One doz. choice mixed (by exp., not prepaid)	1.25



WHITE MAMAN COCHET.

WHITE MAMAN COCHET (Tea—see cut).—This is a superb variety; snow white. The flowers are large and very double, making it of more than ordinary value in open ground.

GRUSS AN TEPLITZ.—New, hardy, ever-blooming hybrid Tea Rose. The flowers are large, full and moderately double; are handsomely made, of splendid substance, and are produced on extraordinarily long stems that shoot out beyond the foliage

in free yet handsome disorder. The color is fiery crimson, shaded with a dark, velvety sheen, producing the most gorgeous effect ever seen in any rose. It grows to a height of four to five feet, is perfectly hardy in all sections and blooms all the time.

DUCHESS DE BRABANT (Hybrid).—Beautiful buds, deep rosy pink, edged with silver; blooms quickly and constantly; one of the best.

AMERICAN BEAUTY (Hybrid).—This variety has been rightly described as an ever-blooming hybrid perpetual. The flowers are very large and double; color, a deep rich rose. The fragrance is delightful. Each shoot produces a bud.

MME. CAROLINE TESTOUT.—Hardy hybrid Tea Rose. Large petal of LaFrance form. Both flowers and buds are extra large. The color is brilliant satiny rose, deepening to clear red at center.

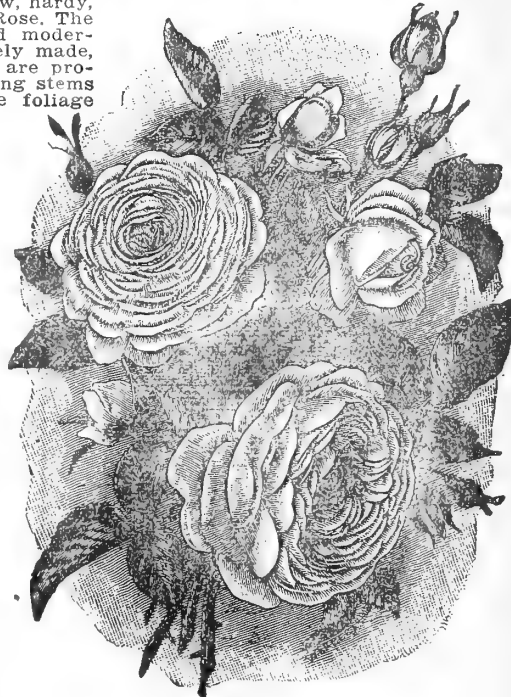
KAISERIN AUGUSTA VICTORIA (Hybrid Tea).—One of the most desirable white roses for summer bedding; large flowers, produced in great profusion; a strong, healthy grower, with large foliage.

BRIDESMAID (Tea).—The flowers are very large and of fine, regular, full form, delightfully tea-scented; color, clear rose pink. A free and constant bloomer; makes elegant buds for cutting.

SOUVENIR DU PRES, CARNOT (Tea).—The growth is vigorous, the flower is very large, both in bud and expanded; opens beautifully. Rosy flesh, very soft in the center, and shaded with a lighter flesh at the end of the petals.

LA FRANCE (Tea).—Undoubtedly the most perfect type of a cut-flower rose. No variety surpasses it in delicate coloring—silvery rose, with a satiny sheen over all its petals. Flower large, with a well-known fragrance.

PAPA GONTIER (Tea).—Dark crimson red, with long, pointed buds; beautiful for cutting.



CLOTHILDE SOUPERT (Tea).

CLOTHILDE SOUPERT (Tea).—This is the most famous pot and bedding rose (Polyantha Tea). Its charming coloring, shading from pearly white to purest rose; double blossoms, delightful fragrance, wonderful vigor and freedom of bloom combine to make it a most beautiful rose.



GOLDEN GATE (Tea).—This is a beautiful free blooming and healthy Tea Rose that we can recommend to everyone desiring large flowers, long stem and continuous bloom. The buds are long and pointed, opening out into a well-shaped flower of creamy white, delicately tinged with golden yellow and rose. (See cut.)

SELECT EVER-BLOOMING ROSES

PRICES (except where otherwise noted):

One dozen choice mixed, two years old, \$5.00; 50c. each.
 One dozen choice mixed, one year old, \$2.75; 25c. each.
 One dozen choice mixed, six months old, \$1.25; 15c. each.
 By express, not prepaid.

RHEA REID.—In this new American variety we have a decided acquisition—a rose of the type of the American Beauty, but of the easiest culture. It never mildews or black-spots, and opens its large flowers perfectly under all weather conditions. In color it varies with the temperature, in summer a bright cherry-rose, while in winter it is a rich crimson-scarlet. 6-month plants, 40c. each.

KILLARNEY.—New, hardy, ever-blooming Irish Hybrid Tea Rose. Perfectly hardy; makes a strong, upright bush, with beautiful deep bronze green foliage. Is free-flowering, bearing its large, long-pointed buds and massive flowers on long, stiff, heavy shoots; an exquisite shade of deep, brilliant, sparkling shell pink. Has a delightful tea fragrance.

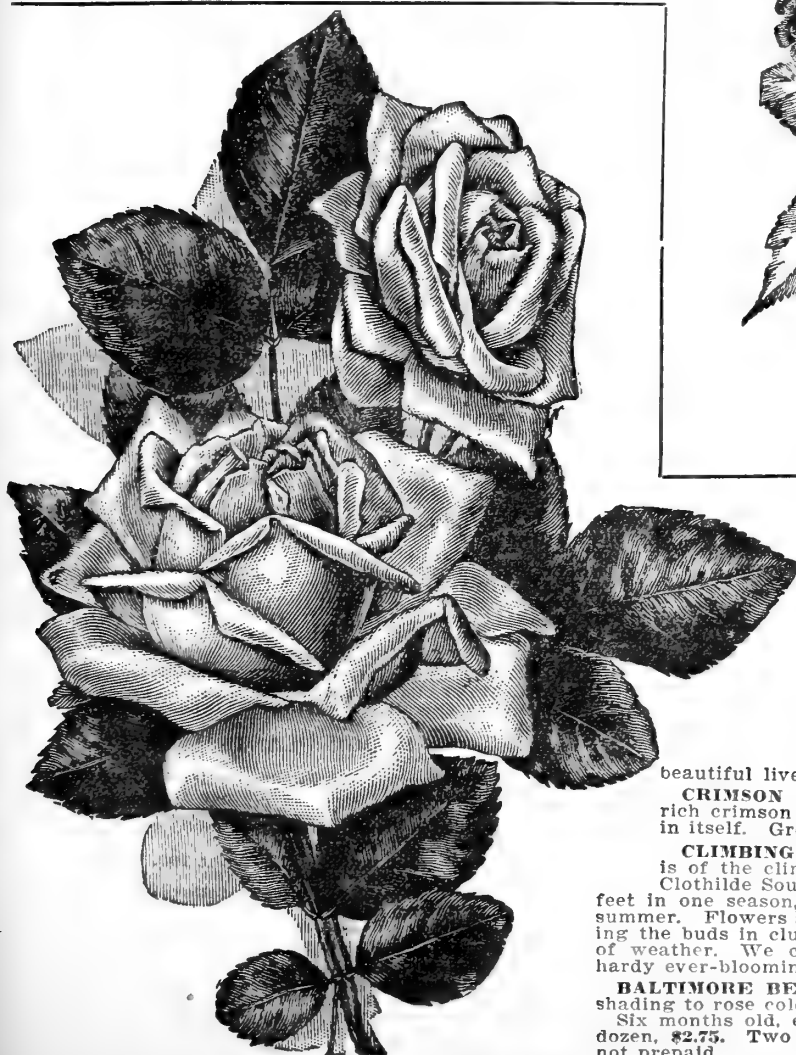
RICHMOND.—Ever-blooming Hybrid Tea. Free blooming, with scarlet crimson flowers borne on fine, long stems, making it valuable for cutting purposes.

RED KAISERIN.—Similar to the Kaiserin Augusta Victoria in foliage, habit, shape and size of bloom, excepting the color of flowers being a beautiful cherry red. 6 months, 30c. each; 1 year, 50c. each; 2 years, 75c. each

WHITE RAMBLER (Thalia).—Pure, pearl white. Related to the Crimson Rambler. Similar in habit of growth. Flowers are pure white, quite double, and remain on the plant a long time. 6-month plants, 40c. each.

BABY RAMBLER.—New Dwarf Ever-blooming Crimson Rambler (MADAME NORBERT LEVASSEUR).—This is the rose that has created a commotion in the rose world which no other rose has ever approached. It is without question a decidedly sensational variety, and identical in every way with that wonderful rose, Crimson Rambler, except it is a dwarf bushy grower and a true ever-bloomer, being in bloom all the time; flowers in large clusters; color, brightest crimson. It grows to a height of 18 inches and hides the plant with its flowers.

6 months25c. each.
 1 year40c. each.
 2 years70c. each.



HARDY CLIMBING ROSES

WHITE MICROPHILLA, OR MAGNOLIA ROSE.—Rich, creamy white; the most deliciously fragrant of all Roses; has strong resemblance to the odor of a magnolia; hence its name. Strong, rapid grower; leaves small; very hardy; constant bloomer. This is not a new Rose, but the old-time climber that was so extensively grown in ante-bellum days, and now coming to the front as one of the great climbers.

REINE MARIE HENRIETTE.—Cherry red; a beautiful lively shade; buds long and pointed.

CRIMSON RAMBLER.—Magnificent pyramidal clusters of rich crimson roses. Every cluster a perfect bouquet of roses in itself. Grows ten to twenty feet in a year.

CLIMBING CLOTHILDE SOUPERT.—This grand new rose is of the climbing form of the well-known and popular rose Clothilde Soupert. It is a vigorous grower, forming canes 15 feet in one season, and covered with large clusters of flowers all summer. Flowers are large, double and a beautiful shell pink, forming the buds in clusters. Perfectly hardy, and will stand any kind of weather. We cheerfully recommend it as the best of all the hardy ever-blooming roses.

BALTIMORE BELLE.—A hardy climber; in color, a pale blush, shading to rose color; very double flowers in large clusters.

Six months old, each, 15c.; dozen, \$1.25. One year old, each, 25c.; dozen, \$2.75. Two years old, each, 50c.; dozen, \$5.00. By express, not prepaid.

NURSERY DEPARTMENT

SUMMER APPLES

YELLOW TRANSPARENT.—Ripens among the earliest. July.

25c. each. \$2.50 per dozen. \$20.00 per 100.

STAR.—One of the best. July.

25c. each. \$2.50 per dozen. \$20.00 per 100.

AUTUMN APPLES

GRAVENSTEIN.—August.

25c. each. \$2.50 per dozen. \$20.00 per 100.

OLDENBURG (Duchess of Oldenburg).—August.

25c. each. \$2.50 per dozen. \$20.00 per 100.

WINTER APPLES

LANKFORD'S SEEDLING.—A popular sort for late winter use.

50c. each. \$4.80 per dozen. \$30.00 per 100.

YORK IMPERIAL, or **JOHNSON'S FINE WINTER.**

25c. each. \$2.50 per dozen. \$20.00 per 100.

STAYMAN'S WINESAP.—A great apple.

25c. each. \$2.50 per dozen. \$20.00 per 100.

"S" means Summer, "A" Autumn, "W" Winter.

ADDITIONAL VARIETIES

Red Astrakham, S. Carolina Red June, S. Tetafsky, S. Fall Pippin, A. Smoke-house, A. Ben Davis, W. Bentley's Sweet, W. Berry Red, W. Fallwater, A. Winesap, W. Nansmond Beauty, W.

25c. each. \$2.50 per dozen. \$20.00 per 100.

CRAB APPLES.—30c. each. \$3.00 per dozen.

PEARS

KOONCE.—Medium to large, very handsome; surface yellow, one side covered with a bright carmine, containing brown dots; quality very good, spicy, juicy and sweet. The Koonce is a vigorous grower, free from blight, productive, and an annual bearer. 50c. each. Three for \$1.25.

VERMONT BEAUTY.—In color it is a rich yellow, with a beautiful bright carmine cheek. The fruit is of medium size, and the flesh is of the finest quality, being rich, juicy and aromatic. 50c. each. Three for \$1.25.

GARBER AND KEIFFER.—September and October. Said to be blight-proof. 40c. each. \$4.00 per dozen. \$25.00 per 100.

BARTLETT.—The old well-known standard variety. 60c. each. \$6.50 per dozen.

FLEMISH BEAUTY, SECKEL.

25c. each. \$2.50 per dozen. \$20.00 per 100.

DWARF PEARS

PRICES ON DWARF PEARS, 2 and 3 Years, First Class:

40c. each. \$3.50 per dozen. \$25.00 per 100.

The following varieties succeed well as dwarfs:

Angouleme, Anjou, Lawrence, Seckel, Manning's Elizabeth.

PEACHES

CARMEN.—Hardy, rot-proof. Ripens with Early Rivers; almost as large as Elberta. Pale yellow skin; flesh white. Melting, juicy. Ripens ahead of Mountain Rose.

35c. each. \$3.50 per dozen.

ELBERTA.—Needs no description.

25c. each. \$2.50 per dozen.

ITALIAN DWARF.—Very singular tree. Begins bearing when 12 to 15 inches high and seldom exceeds 3 or 4 feet. Fine for small yards. White; free-stone.

25c. each. \$2.50 per dozen.

GOLDEN DWARF.—Seldom grows over 4 to 5 feet. Very hardy; cling. Excellent eater. Fine for city yards.

25c. each. \$2.50 per dozen.

Alexander, Louise, Yellow St. John, Mountain Rose, Early Silver, Crawford Early, Wheatland, Crawford Late, Chairs Choice, Family Favorite, Chinese Cling, Old Mixon, Reeve's Favorite, Christiana, Smock Free, Globe, Ringold Cling.

20c. each. \$2.00 per dozen. \$12.50 per 100.

JAPANESE OR ORNAMENTAL PLUMS

HALE.—Most vigorous tree of all the Japans. Fruit large; bright orange, mottled with cherry red. Superb in quality. Ripens middle of September. Price, 50c. Three for \$1.25.

WILLARD.—Earliest of all Japan plums, and hence very valuable for market. 50c. each. Three for \$1.25.

WICKSON.—Pit small; flesh tender, sweet and delicious.

50c. each. Three for \$1.25.

Season just following the Burbank Plum.

Will sell one of each of above or the three in one order for \$1.25.

BOTAN, OR ABUNDANCE.—First of August.

BURBANK.—September 1st.

The two above-named varieties, 40c. each. Three for \$1.00.

Six for \$2.00. \$3.50 per dozen.

SHROPSHIRE DAMSON.—25c. each. \$2.50 per dozen.

CHERRIES

HEART.—Black Tartarian, Gov. Wood, Napoleon Bigreau, Florence, Mercer.

DUKE AND MORELLO.—Dye House, Belle Magnifique, Early Richmond, Montmerency.

Price, 75c. each. \$6.00 per dozen.

APRICOTS

HARRIS.—Very hardy; blooms late; sure bearer; fine golden yellow. 50c. each. \$5.00 per dozen.

RUSSIAN VARIETIES AND NECTARINES.

50c. each. \$5.00 per dozen.

NUT-BEARING TREES

Spanish Chestnut, English Walnut, Paper-Shell Pecan, Filberts, Shellbarks, Hard and Soft Shell Almonds.

50c. each. \$5.00 per dozen.

JAPAN CHESTNUT.—\$1.00 each. \$10.00 per dozen.

GRAPES

The following list contains the best-known sorts of hardy American varieties:

OHIO, BLACK.—One of the very best. Two years old.

25c. each. \$2.50 per dozen.

Brighton, Red, Concord, Black, Delaware, Red, Martha, White, Worden, Black. Two years old.

25c. each. Twelve for \$2.50.

Moore's Early, Black, Niagara, White, Pocklington, White, Vergennes, Red. 25c. each. \$2.50 per dozen.

Campbell's Early.—50c. each. \$4.00 per dozen.

SELECT QUINCES

CHAMPION (3 to 4 feet).—50c. each. \$5.00 per dozen.

CHAMPION (2 to 3 feet).—30c. each. \$3.00 per dozen.

MBEECH PROLIFIC (3 to 4 feet).—50c. each. \$5.00 per doz.

MBEECH PROLIFIC (2 to 3 feet).—30c. each. \$3.00 per doz.

RASPBERRIES

KANSAS (Black Cap). Firm and of fine quality. Its canes are of strong growth, entirely hardy and prolific, with tough, healthy, clean foliage. Its season is about second early—later than Souhegan, but earlier than Gregg.

75c. per dozen. \$4.00 per 100.

MILLER RED.—Fruit size of Cuthbert; bright red; does not fade; core very small; ripens very early; heavy bearer; best shipper. 75c. per dozen; \$4.00 per 100.

MUNGER.—Resembles Gregg, but much finer. One of the best of the black caps. Perfectly hardy.

75c. per dozen. \$4.00 per 100.

GOLDEN QUEEN, CUTHBERT, OHIO AND SOUHEGAN.

75c. per dozen. \$4.00 per 100.

BLACKBERRIES

ELDORADO.—Berries very large; jet black; sweet, melting; no hard core; splendid keeper and shipper.

75c. per dozen. \$4.00 per 100.

WILSON, JR.—Very early.

ERIE.—Early.

EARLY HARVEST.

LUCRETIA (Dewberry).—As early as Early Harvest and as large as Wilson. Plant is entirely hardy, healthy, strong grower and very productive.

Any of the above 75c. per dozen. \$4.00 per 100.

By Express.

GOOSEBERRIES

DOWNING.—Two-Year-Old. Per half-dozen, \$1.25. Per dozen, \$2.50. Per 100 (by express), \$15.00.

HOUGHTON'S SEEDLING.—Per half-dozen, \$1.25. Per dozen, \$2.00. Per 100 (by express), \$14.00.

CURRANTS

CHERRY.—Per half-dozen, \$1.25. Per dozen, \$2.50.

FAY'S PROLIFIC.

Strong grower, wonderfully productive, and comes to bearing young; fruit large, bright red and good quality.

Per half-dozen, \$1.25. Per dozen (by express), \$2.50.

WHITE GRAPE.—Per half-dozen, \$1.25. Per dozen, \$2.00.

ORNAMENTALS

SILVER MAPLES (9 to 10 feet).—50c. each. \$5.00 per doz.

SILVER MAPLES (10 to 12 feet).—75c. each. \$9.00 per doz.

SUGAR MAPLES (8 to 9 feet).—75c. each. \$8.00 per doz.

SUGAR MAPLES (10 to 12 ft.).—\$1.00 each. \$10.00 per doz.

NORWAY MAPLES (8 to 9 ft.).—90c. each. \$10.00 per doz.

NORWAY MAPLES (10 to 12 ft.).—\$1.25 each. \$13 per doz.

NORWAY SPRUCE (2 to 2 1/2 ft.).—50c. each. \$5.00 per doz.

BALSAM FIR (2 to 2 1/2 feet).—75c. each. \$8.00 per doz.

MAGNOLIA, GRAND (2 to 3 feet).—75c. each.

Prices on Other Varieties on Application.

SHRUBBERY

JAPAN MAPLES.—Mostly dwarf habit; several kinds: weeping and cut-leaved, with brightly colored foliage—red, purple, etc. These are indeed remarkable for beauty, and wherever planted give perfect satisfaction. \$1.50 each.

DEUTZIA GRACILIS, DEUTZIA CRENATA, LILAC (White and Blue); **SPIREA, RIEVESII, SPIREA, BUMALDO;** **SPIREA, CALOSA ALBA, HYDRANGEA, PANICULATA GRAND, CRAPE MYRTLE.** All 50c. each.

VINES

AKEBIA QUINATA, AMPELOPSIS VEITCHII, WISTARIA PURPURA, WISTARIA ALBA, CLEMATIS (Large Flowering), **CLEMATIS** (Small Flowering)—All 50c. each.

ENGLISH IVY.—30c. each.

HEDGE PLANTS

CALIFORNIA PRIVET:

One Year—\$5.00 per 100. \$35.00 per 1000.

Two Years—\$6.00 per 100. \$40.00 per 1000.

OSAGE ORANGE:

One Year—75c. per 100. \$6.00 per 1000.

AMERICAN ARBORVITAE:

12 to 18 Inches—25c. each. \$12.50 per 100.

2 to 3 Feet—75c. each. \$22.50 per 100.

JAPAN HARDY ORANGE (Citrus Trifoliata).—Three years old. By freight or express.

Each, 40c. Per dozen, \$4.00. Per 100, \$16.00.

STRAWBERRY PLANTS

PRICE.—Any variety, strong, healthy layer plants, 25c. per doz.; 75c. per 100; \$4.00 per 1000. Ready October 15.

Pot-grown plants will be ready for delivery after September 15. Prices: Per doz., 75c.; per 100, \$4.00. Orders for same should be in by August 1, 1909.

WRITE FOR LIST OF VARIETIES.

Horticultural Tools and Supplies

L. M. OLMSTEAD'S IMPROVED RELIABLE MOLE TRAP (Fig. 1.)

No Cheap Trap So Good. No Good Trap So Cheap.
Springs are furnished to operate the trap. The spring can be readily attached and detached.

This trap is constructed entirely of steel and iron. Each trap is packed in a strong paper box, one dozen in a case. **Price \$1.50.**

OUT OF SIGHT MOLE TRAP (Fig. 2.)

Considered to be one of the best and cheapest Mole Traps on the market. Especially valuable for hotbeds and frames on account of the convenient size. **Price \$1.00.**

THE MODEL MOLE TRAP.

This, while possessing all the good qualities of other traps, is especially adapted for setting under glass. **Price \$1.75.**

G. & T. MOLE TRAP.

This is a good Mole Trap for the money. **Price \$1.00.**

THE LITTLE GIANT MOLE TRAP.

Self-setting by pressing down on lever. Very convenient feature found on no other trap. Made from best spring steel, thoroughly galvanized. Simple and durable in its construction. **Price 75c.**

GARDEN REELS (Fig. 4.)

Small size..... **60c.** Large size..... **75c.**

EXCELSIOR WEEDER (Fig. 5.)

Price..... **10c.** Mailed..... **15c.**

LARGE HAND WEEDER (Fig. 6.)

Malleable Iron Hand Weeder..... **15c.**
Solid Steel Hand Weeder..... **25c.**

By mail, **10c. extra.**

DIBBERS.

For transferring plants. By far the best thing for the purpose ever introduced.

Fig. 8.—Right-angle shape, steel-polished, wood handle—**40c.**

EDGING KNIVES (Fig. 9.)

9 inch, American..... **\$0.75** 9 inch, Eng., black..... **\$1.35**
8 inch, Eng., black..... **1.25** 10 inch, Eng., black..... **1.50**

SCUFFLE HOES (Fig. 10.)

4 inches..... **50c.** 8 inches..... **70c.**
6 inches..... **60c.** 10 inches..... **80c.**

PLANTAIN TROWEL (Fig. 14.)

No. 2, 5-inch blade..... **15c.** No. 1, 8-inch blade..... **25c.**

GARDEN TROWEL (Fig. 11.)

Sixteen gauge tool steel, 6-inch blade, a socket handle that will not come out in dry weather. **Price 15c.**

GARDEN TROWELS (Fig. 12.)

Each.
Best forged English steel, socket handle, strong and durable, 6-inch..... **40c.**
American, Florist..... **20c.**
" 6-inch bright steel blade, plain handle..... **5c.**
" 6-inch tinned steel blade, enameled handle..... **10c.**

EUREKA HAND WEEDER (Fig. 13.)

A Very Handy and Useful Little Instrument.
Short handle..... **25c.** Long handle..... **35c.**

THERMOMETERS (Fig. 15.)

8-in. tin, japanned, No. 20.....	\$.15
10-inch, distance reading, No. 8.....	.25
8-inch, cabinet, No. 201 H.....	.50
10-inch, tin case, best quality, No. 31.....	.60
Porcelain scale, red spirit, No. 251, 8-inch.....	1.00
Porcelain scale, 10-inch, red spirit, No. 251.....	1.25
12-inch, tobacco curing, No. 0.....	.35
Registering (sixes), No. 650, 8-inch.....	2.50
Mushroom bed.....	1.25
Dairy or hotbed glass float.....	.25
Glass floating, large.....	.50
8-inch standard flange, stands boiling water.....	.60
Milk Hydrometer, No. 2080.....	.40
Milk Hydrometer, No. 2085 (Quevenne).....	.75
Incubator, upright.....	.75
Incubator, reclining.....	1.00
Brooder, No. 1307.....	.50

GRASS HOOKS.

American, plain.....	\$.25
American, Blue Ribbon.....	.40
German—No. 0.....	.25
German—No. 1.....	.30
German—No. 2.....	.35
German—No. 3.....	.45
Best English Grass—No. 2.....	.35
Best English Grass—No. 3.....	.50
Best English Hedge or Grass Hooks—No. 4.....	.60
Best English Hedge or Grass Hooks—No. 5, riveted back.....	.75

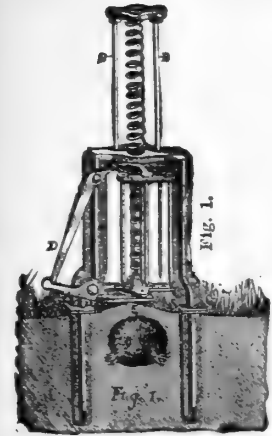


Fig. 1.

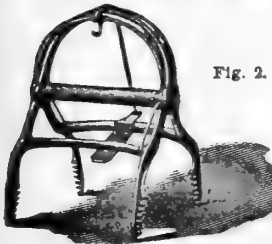


Fig. 2.

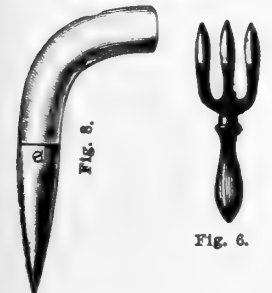


Fig. 8.

Fig. 6.

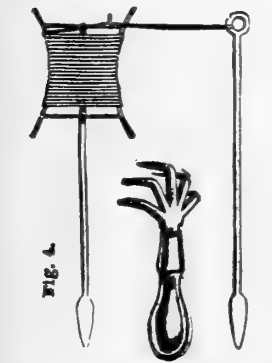


Fig. 4.

Fig. 5.

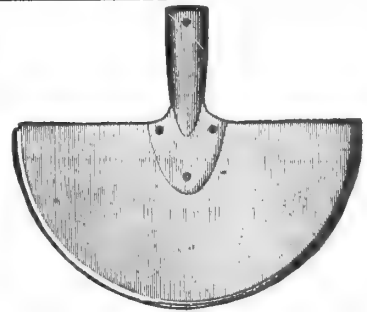


Fig. 9.

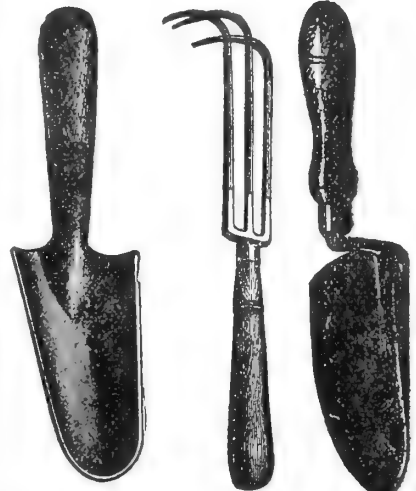


Fig. 11.

Fig. 13.

Fig. 12.



Fig. 10.



Fig. 14.

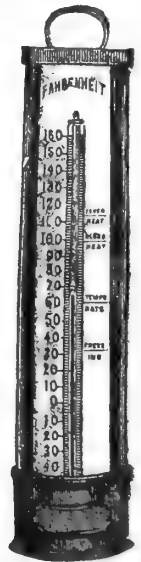


Fig. 15.

Best Asparagus Buncher . . . \$1.50
Asparagus Knives30
By Mail40
SEE PAGE 2.

HORTICULTURAL TOOLS AND SUPPLIES

CONTINUED

WATERS' TREE PRUNER

4 feet long.....	\$.75
6 feet long.....	.85
8 feet long.....	1.00
10 feet long.....	1.10
12 feet long.....	1.25

Extra Knives, 20c.

"RED CLIPPER" TREE PRUNER

4 feet long.....	\$.90
6 feet long.....	1.00
8 feet long.....	1.15
10 feet long.....	1.25
12 feet long.....	1.50

BORDER SHEARS.—Fig. 18.

Price, without wheel, No. 104.....	\$2.25
Price, with wheel, No. 105.....	2.50

HORSE SHEARS.—Fig. 19.

Bent Handle, No. 1087.....	\$.50
Curved Handle, No. 1090.....	.60

By mail, add 15c.

HORSE SCISSORS.

No. 9162, extra fine.....	\$1.25
---------------------------	--------

By mail, add 15c.

PRUNING SAWS.—Fig. 20.

16-inch double.....	\$.65
18-inch double.....	.75
20-inch double.....	.85
Saw and Chisel, combined.....	1.10

PRUNING SHEARS.—Fig. 21.

No. 33, Coil Spring, Mal. Handle, Steel Blade..	\$.30
No. 4, Flat Spring, Steel Blade.....	.40
No. 1537, Solid Steel, half polish, 8 inch.....	.50
No. 4665, Solid Steel, 9 inch.....	.75
No. 4666, Solid Steel, full polish, 9 inch.....	1.00
No. 2, French Pruning, 8½ inch.....	1.25
No. 4770, Ladies' nickel plate, 6 inch.....	1.00

If wanted by mail, add 15c.

PRUNING KNIVES.—Fig. 22.

Iron Handle, No. 126, 50c.; No. 2173, Cocoa Handle, 65c.
--

BUDDING KNIVES.

Prices—No. 12.....	\$1.00.	No. 10.....	\$1.25
--------------------	---------	-------------	--------

TELEGRAPH TREE PRUNERS.

Price without pole, \$1. Extra blades, 20c.

LAWN SHEARS.—Fig. 23.

No. 1062, 2 wheels, 8-in. blade, for cutting on narrow borders, under fences and shrubs. \$2.75.

GRASS SHEARS.—Fig. 24.

Bent Handle, No. 360, 35c. Trowel Handle, No. 460, 50c. Mail, add each 15c.

HORSE OR DOG CLIPPERS.—Fig. 25.

Very handy about horses; also for clippings dogs.
Horse, No. 179, \$1.00. Horse, No. 159, ball-bearing, \$1.75. Horse, No. 71, Fellock, nickel plate, \$1.00. Toilet or Fellock, nickel plate, 90c.

HEDGE SHEARS.—Fig. 26.

8 in., No. 100, \$1.25.	9 in., No. 100, \$1.50.	10 in., No. 100, \$1.75.	12 in., No. 100, \$2.25.
8 in., with notch, No. 101, \$1.50.	9 in., with notch, No. 101, \$1.75.	10 in., with notch, No. 101, \$2.00.	12 in., with notch, No. 101, \$2.50.

LOPPING SHEARS.

Fig. 27.
No. 5 American, or Tip Top, \$1.00. No. 4 American, or Tip Top, \$1.25. No. 1 Baltimore Draw Cut, \$2.50. No. 2 Baltimore Draw Cut, \$2.25.

ASPARAGUS KNIFE.

Fig. 28.
Made of solid steel, 30c. By mail, 40c.

SHEEP SHEARS.—Fig. 29.

No. 3749, 85c. No. 3755, full polish, \$1.00. By mail, add 15c.



Fig. 17.



Fig. 18.



Fig. 19.



Fig. 20.



Fig. 21.



Fig. 22.

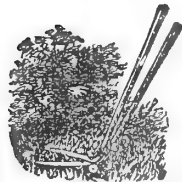


Fig. 23.



Fig. 24.

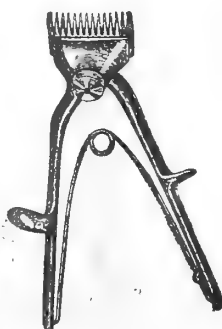


Fig. 25.

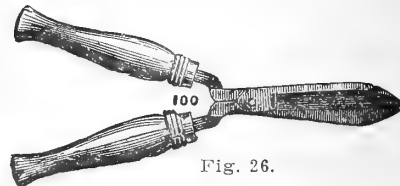


Fig. 26.

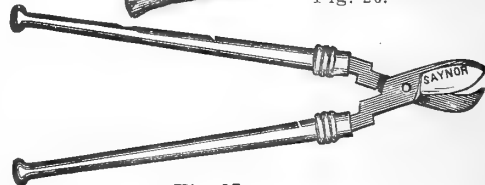


Fig. 27.



Fig. 28.

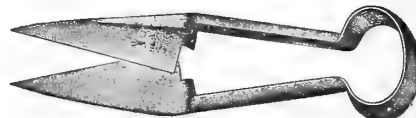


Fig. 29.



Fig. 30.

FLOWER AND GRAPE SCISSORS.—Fig. 30.

Flower Scissors, 75c. No. 3774, Grape Pickers, 50c. 5 cents extra for postage.

FRUIT PICKER.—Fig. 31.

This cut almost speaks for itself—the device being so much like the human hand, shows at once the utility of the article. As a Fruit Picker it has no superior. It is made of heavy galvanized wire and easily adjusted to a pole. 30c.

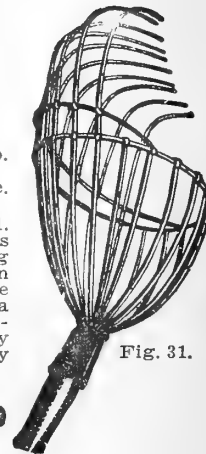


Fig. 31.



Fig. 32.

SCYTHE STONES.—Fig. 32.

No. 1—Willoughby Creek...10c. ea., \$1.00 doz.
No. 2—White Mountain...10c. ea., \$1.00 doz.
No. 3—Green Mountain...8c. each, 75c. doz.
No. 4—Indian Pond, No. 2 (red end), 5c. each, 50c. doz.
No. 5—Mowing Machine (beveled)...10c.
No. 6—Darby Creek...10c. each, \$1.00 doz.
Cigar Emery...10c. each, \$1.00 doz.
No. 7—Imported English Talacre...20c. each.
None genuine unless labeled Sir Pyers Mostyn, Talacre Quarries.

WIRE PLIERS.

Fence Wire Cutters, 6 in., 40c.; 8 in., 50c.; 10 in., 60c.

Florist and Garden Supplies

PLANT SPRINKLERS



PUTTY BULB.

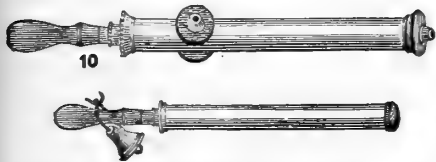
For sprinkling cut flowers, seedlings, plants, clothes, etc.

- No. 1—Plain top, 12 ounces.....\$.90
- No. 1—Angle, plain top, 12 ounces. .90
- No. 2—Plain top, 7 ounces..... .75
- No. 2—Angle, plain top, 7 ounces.. .75
- No. 3—Plain top, 7 ounces..... .75
- No. 4—Plain top, 4 1/4 ounces..... .60
- No. 1—Valvular top, 12 ounces..... .90

By mail, 10c. extra.

PUTTY BULBS—Large Size.

Price.....\$1.00 By mail.....\$1.10



Brass Garden Syringes

- No. A—Barrel 12 in. long, 1 spray and 1 stream rose.....\$2.25
- No. 12—Barrel 14 in. long, 1 coarse and 1 fine spray and 1 stream rose..\$3.75
- No. 2—Two spray roses, and jet 1 1/2 x 1 3/4 inches.....\$4.50
- No. 10—Barrel 18 in. long, 1 coarse and 1 fine spray, and 1 stream rose with patent valves and elbow joint..\$6.00

Model Extension Carnation Support

Endorsed by all the leading Carnation growers as the best support on the market. Price, dozen, 60c.; 100, \$3.50. Special Price in 1000 Lots.

Cane Stakes

5 to 7 feet long.

Per 100.....\$1.00 Per 1000.....\$6.00

Pot Labels

- | | | |
|---------------------------|--------|----------|
| | Plain. | Painted. |
| 3 1/2-inch, per 1000..... | \$.55 | \$.75 |
| 4 -inch, per 1000..... | .70 | .85 |
| 4 1/2-inch, per 1000..... | .85 | 1.00 |
| 5 -inch, per 1000..... | 1.00 | 1.25 |
| 6 -inch, per 1000..... | 1.25 | 1.50 |
| 12-inch, per 100..... | .75c. | |
- Special price in quantities to florists.

Galvanized Hard Steel Plant Stakes

These are a great improvement over the wooden stakes for carnation and rose beds; they are durable, neat and strong.

Length.	Per 100.	Per 1000
2 1/2 feet.....	\$.75	\$6.25
3 feet.....	.90	7.75
3 1/2 feet.....	1.10	9.00
4 feet.....	1.25	10.00
5 feet.....	1.50	13.00

Painted Tree Labels

- | | |
|-------------------------------------|----------|
| | Per 1000 |
| 3 1/2-inch, notched or pierced..... | \$.80 |
| 3 1/2-inch, iron wired..... | 1.00 |
| 3 1/2-inch, copper wired..... | 1.25 |



Mastica Glazing Machine

Price, \$1.25.

Mastica.—For glazing greenhouses, sashes, new and old. It is elastic, adhesive and easily applied. It is not affected by dampness, heat or cold. "Mastica," when applied, in a few hours forms a skin or film on the entire mass, hermetically sealing the substance and preventing the evaporation of the liquids, and remains in a soft, pliable and elastic condition for years. "Mastica" is of great value in going over old houses with a putty bulb or machine on the outside of sash, as it makes it perfectly tight and saves the expense of relaying the glass.

- Half gallon.....\$.70
- Gallon.....1.25



Burlap Hot-Bed Mats

Made of strong burlap, interlined with wool.

- Price, 40x76, each.....\$.75
- Price, 76x76, each.....1.25

Special Price in Dozen Lots.

Plant Bed Cloth

A cheap substitute for glass, and will keep out many degrees of frost. Also useful for shading material. Samples mailed on application.

- Light grade.....7c. yard.
- Piece of about 65 yards.....6c. yard.
- Medium grade.....9 1/2c. yard.
- Piece of about 60 yards.....8 1/2c. yard.
- Heavy grade.....13c. yard.
- Piece of about 40 yards.....12 1/2c. yard.

Grafting Wax

- 1/4 lb.....10c. 1/2 lb.....20c. 1 lb.....35c.

Sphagnum Moss

For packing growing Orchids, Plants, etc. Per bale.....\$2.50

Stable Brooms

- For Stables, Lawns and Walks.
- 14-in. block, 14-knot Bass.....\$.60
- 14-in. block, 16-knot Bass......75

Raffia

The best material for tying plants, vines, etc. Per pound, 20c. 10 pounds, \$1.50.

SILKALINE, spool, 25c.

Marling

Furnished in 1, 5, 10, 15 and 20 lb. bales.

- 5-lb. Bales.....15c. per pound.
- 1-lb. Bales.....16c. per pound.

Special Prices in Quantities.



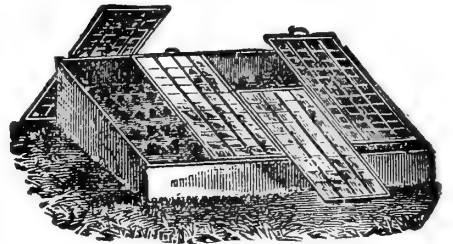
Ironclad Watering Pots

With Adjustable Nozzles.

- | | | | |
|---------------|--------|---------------|-------|
| 4-quart..... | .50c. | 10-quart..... | .75c. |
| 6-quart..... | .60c. | 12-quart..... | .80c. |
| 8-quart..... | .65c. | 16-quart..... | .90c. |
| 20-quart..... | .81.15 | | |
- Wotherspoon Make.
- | | | | |
|--------------|--------|---------------|--------|
| 6-quart..... | \$1.85 | 10-quart..... | \$2.25 |
| 8-quart..... | 2.00 | 12-quart..... | 2.60 |

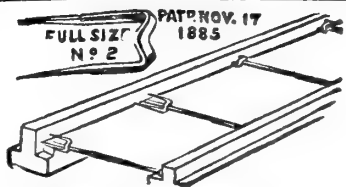
Twamlow's Old English Glazing Putty Semi-Liquid.

- 16-pound can (1 gallon capacity)..\$1.25
 - 80-pound kits.....6.00
- For bedding glass in sash and filling cracks or seams in roof joints or frames of greenhouses or hotbeds.



Unglazed Hot-Bed Sash

3x6 feet.....Price, 90c.



Peerless Glazing Points

(Imp. Van Ruyper.)

The finest glazing points on the market. The glass cannot slip; they are quickly and easily put in with special pincers; no "rights" or "lefts" to bother with.

- Per box of 1000......60c.
- By mail......75c.
- In lots of 5000 (by express), per 1000......55c.
- Pincers, per pair......50c.
- By mail......60c.

Heavy or Dahlia Stakes

- | | | | |
|-------------|-------|----------|----------|
| | Each. | Per Doz. | Per 100. |
| 3 feet..... | 7c. | \$.75 | \$4.85 |
| 4 feet..... | 10c. | 1.10 | 6.50 |
| 5 feet..... | 11c. | 1.25 | 8.15 |

Light Plant Stakes

- | | | | |
|-----------------|-------|----------|----------|
| | Each. | Per Doz. | Per 100. |
| 1 1/2 feet..... | 2c. | 17c. | \$1.00 |
| 2 feet..... | 3c. | 28c. | 1.70 |
| 2 1/2 feet..... | 5c. | 39c. | 2.40 |
| 3 feet..... | 5c. | 51c. | 3.20 |

ALWAYS ORDER BY FIGURE WHERE FIGURE IS GIVEN

Lever Knapsack Spray Pump BRANDT COMPRESSED AIR SPRAYER, \$5

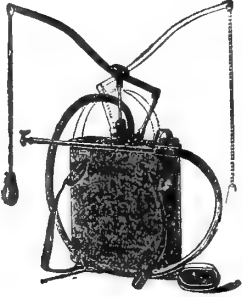


Fig. 547.—No. 330. Galvanized.

Tank holds 5 gallons, is fitted with lid, and strainer, which can be removed. This Pump has lever, large air chamber, ball valves, solid plunger and agitator. Fitted with 5 feet 1/2-inch hose, pipe extension and Bordeaux spray nozzle; can be graduated from a fine mist to a solid stream or shut off entirely.

Retail price, \$7.00. List price, \$10.00.

The Perfect Knapsack Spray Pump

Fig. 547.—No. 331.

Is the same as No. 330, except tank is constructed entirely of copper. Complete with hose, stop-cock, pipe extension and Bordeaux Nozzle.

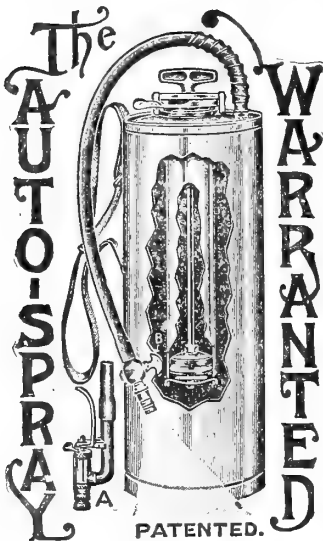
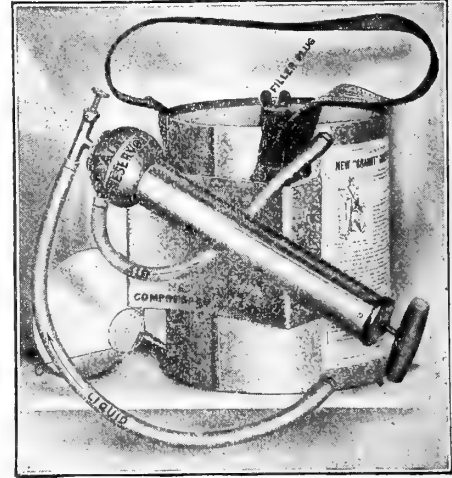
Retail price, \$11.25. List price, \$16.00.

This enables operator to control pressure at will. No waste of time by stopping to pump ahead; always gives steady spray; construction formed in two hoses. One discharging air from air-reservoir to tank, the other carries the solution to nozzle. This also forms an Automatic Agitator, which, together with the motion of machine, keeps solution well mixed. Pumping air in advance makes pressure too high at beginning and too low towards the end; result, an unsteady spray.

The Brandt nozzle being connected with the **automatic controlling device**, a tube connecting with solution in nozzle cap discharges a sufficient amount of air to draw spray in center as well as circumference, making it equally dense, which covers plant **instantly**, by which faster and better work is produced. Sprayer is sent out with single nozzle, but can be secured with a double at a slight extra cost.

The **DOUBLE NOZZLE** can be attached to air-reservoir by removing single nozzle.

Funnel Strainer with each Sprayer. Pump as shown in cut, \$5.00. Tree Nozzles, \$1.50. No. 2 Caps, 35c. Single Nozzles, 85c. Double Nozzles, \$1.50. Weight, 7 pounds. Discount for cash.



THE AUTO-SPRAY PUMP

A Self-Operating or Automatic Sprayer.

Length of cylinder, 21 inches; weight, loaded, 39 pounds; diameter of cylinder, 7 inches; capacity, about 4 gallons; weight, empty, 7 pounds; extension pipes extra.

Auto-Spray No. 1C—Galvanized Reservoir, Stop Cock. List, \$5.00. Retail price, \$4.50.

Auto-Spray No. 1D—Galvanized Reservoir, Auto-Pop. List, \$6.00. Retail price, \$5.40.

Extension Pipe, brass, 2-foot length, 50c.; galvanized, 40c.

Auto-Spray No. 1A—Brass Reservoir, Stop Cock. List, \$7.50. Retail price, \$6.75.

Auto-Spray No. 1B—Brass Reservoir, Auto-Pop. List, \$8.50. Retail price, \$7.65.

Auto Pop Nozzle, \$1.25.



Brandt Pump

SHOWING DOUBLE NOZZLE.

Will spray two rows of potatoes and similar shrubs at once, doing just as good work, at the same speed as with the single nozzle, thus saving its cost in a few hours. Some say it works even better than the single nozzle. From 10 to 15 acres a day can easily be sprayed with one sprayer when this nozzle is used.

Brandt Pump, as shown in cut, with Double Nozzle, \$7.00. Discount for cash.



TIN CAN SPRAYER

One-half tablespoonful of Paris Green and one filling with water is sufficient to destroy all the bugs on 1,300 hills of potatoes. Price, 50c.

GRAND SPRAYER, No. 4

DOUBLE



THE ACME POWDER GUN

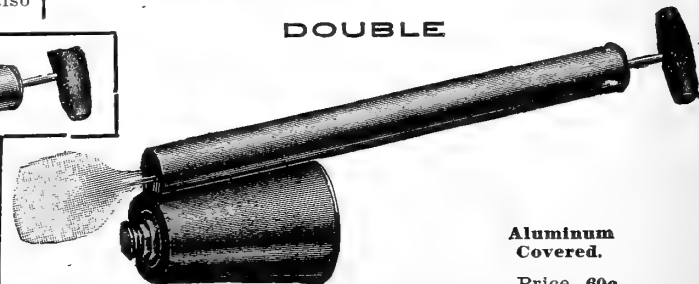
Applies any powdered poison on any plant in any desired quantity any time of the day, and does it right. We also furnish spreader for distributing the blast. Price, 75c.

GRITCO POWDER GUN

Price, 65c.



Impossible to draw powder back into the cylinder pump, and if the powder is sifted through a screen and kept absolutely dry it will be impossible for the same to clog.



Aluminum Covered.

Price, 60c.

ALWAYS ORDER BY FIGURE WHERE FIGURE IS GIVEN.

LITTLE GIANT BRASS SPRAY PUMP AND FIRE EXTINGUISHER, WITH AGITATOR

Fig. 639. This Spray Pump is constructed entirely of brass. It is so arranged that the labor of pumping is all done on the downward stroke of the piston and nothing on the up.

PRICE LIST OF PUMP SHOWN.

No. 327½, Fig. 639. Bucket Brass Spray Pump, complete with hose and combination fine, coarse spray and solid stream nozzle. List price, \$5.00. Retail price, \$3.50.

No. 328, Fig. 639. Bucket Brass Spray Pump, complete with hose and combination fine, coarse spray and solid stream nozzle and an eight-foot pipe extension. List price, \$5.50. Retail price, \$3.85.

LEVER BUCKET SPRAY PUMPS

Fig. 632.

For Whitewashing and Painting. Always Use Bordeaux Nozzles for this Work. One-and-One-Quarter-Inch Cylinder. Notice the Lever and Patent Agitator. Observe their Advantages. Can be Used in Bucket or Can be Attached to Top of Barrel.

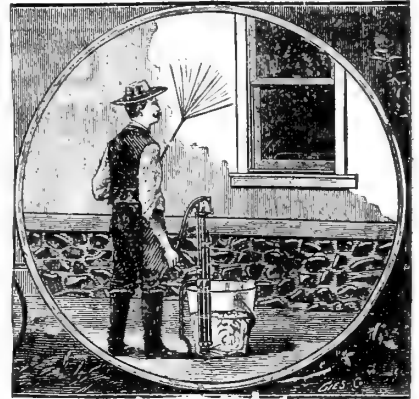


Fig. 632.



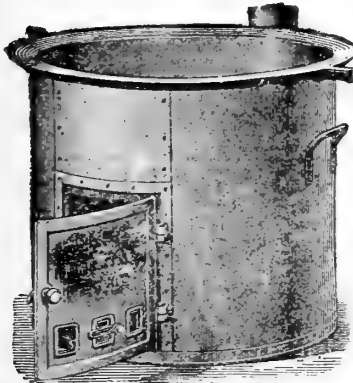
The lime must be thoroughly slaked and carefully strained through a 20-mesh wire cloth into the vessel from which it is pumped; it also must be thoroughly and frequently stirred. It is necessary, when you cease spraying for a short time, to clean the pump thoroughly on the inside with water, so as to remove all lime to prevent clogging.

Figure 632. No. 324. Lever Bucket Spray Pump, complete with hose and nozzle. Factory list price, \$6.00. Our special price, \$4.25.

No. 324A. Lever Bucket Spray Pump with Agitator, complete with hose, nozzle and eight-foot pipe extension. Factory list price, \$6.50. Our special price, \$4.60. If wanted for whitewashing or painting, so state in order, and Bordeaux Nozzle will be sent. If a stopcock is wanted with eight-foot iron pipe extension, the price will be 50 cents extra on either the above named Bucket Pumps.

COOK YOUR LIME AND SULPHUR WITH

G. & T. BOILER AND FEED COOKER



Heavy cold rolled steel furnace; extra large feed door; wrought iron handles, firmly riveted on Kettles smooth, heavy cast iron. Door, frame and flue collar cast iron. Never buckles or warps from heat; designed to set on ground or brick foundation; especially adapted for cooking feed, rendering lard, making soap, scalding hogs, poultry, etc. Cast iron flues are constructed inside this, retaining heat and economizing fuel. We always ship furnace for wood fuel unless otherwise specified.

Also used for lime, sulphur and salt.

Prices of G. & T. Boiler and Cooker.

Actual Capacity.	Diam. of Furnace.	Shipping Weight.	List Price Furnace with Kettle.	Retail Price Furnace with Kettle.	List Price Kettle only.	Retail Price Kettle only.
30 gals.	26 in.	150 lbs.	\$13.00	\$10.40	\$7.00	\$4.90
33 gals.	28½ in.	175 lbs.	14.00	11.20	8.00	5.60
48 gals.	31½ in.	200 lbs.	16.50	13.20	12.00	8.40
53 gals.	32 in.	225 lbs.	18.00	14.40	13.00	9.10
75 gals.	36 in.	275 lbs.	24.00	19.20	18.00	12.60

FORMULA FOR BRILLIANT WHITEWASH

We give herewith receipt for good whitewash for both inside and outside work. It will retain its brilliancy for years. For outside work leave out the salt:

"Half a bushel unslacked lime, slack with warm water, cover it during the process to keep the steam; strain the liquid through a fine sieve or strainer; add a peck of salt previously well dissolved in warm water, three pounds of ground rice boiled to a thin paste and stir in boiling hot; half pound of powdered Spanish whiting and a pound of glue which has been previously dissolved over a slow fire, and add five gallons hot water to the mixture, stir well and let it stand for a few days, cover up from the dirt. It should be put on hot. Coloring matter may be put in and made of any shade, Spanish brown, yellow ochre, or common clay, etc."

It is well always to strain before using in order to prevent any gritty substance from getting into the valves of the sprayer and interfering with its proper operation. Use strainer not coarser than 20 meshes to the inch. With whitewash thin and smooth no difficulty will be experienced.

USE KIL-O-SCALE

BRASS BARREL SPRAY PUMPS

Cylinder Valves, Valve Seats and Discharges, All Brass.

All working parts submerged in liquid, hence no priming is necessary. Patent Agitator. No complicated parts. Throws constant spray.

No. 305, Fig. 702, complete with 5 feet of hose and Vermorel or Bordeaux Nozzle.

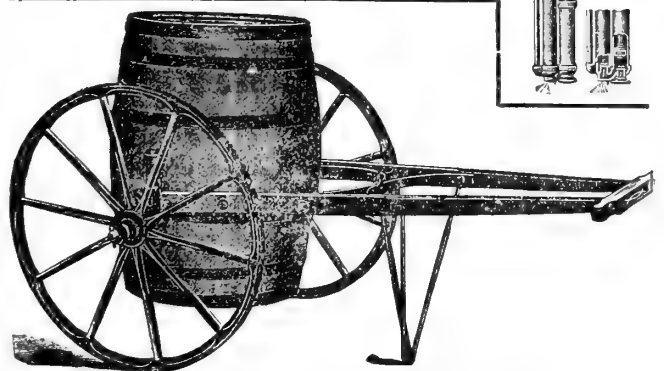
List price, \$10.00. Retail price, \$7.00.

No. 306, Fig. 766, complete with two leads of hose of ½-inch three-ply, each 5 feet long, and two Vermorel or Bordeaux Nozzles.

List price, \$12.00. Retail price, \$8.50.

Installed in barrel, \$2.50 extra. Paddle Agitator extra. List price, \$1.00. Retail price, 75c.

See page 59 for Extension Rods.



WATER TRUCK AND BARREL

Any of the barrel Pumps, Figs. 702, 766, shown above, or Figs. 1100 and 1188, on page 58, installed in barrel and truck, as shown in cut, furnished with steel wheels. Add to price of outfit:

	List.	Retail.
Reg. Tire.....	\$16.00	\$9.00
2½-in. Tire.....	17.50	10.00
3½-in. Tire.....	19.00	11.00

In ordering, always state the length and kind of hose wanted.

These Pumps are admirably adapted for whitewashing or painting, but Bordeaux Nozzle should be used.

For San Jose Scale, use **KIL-O-SCALE**

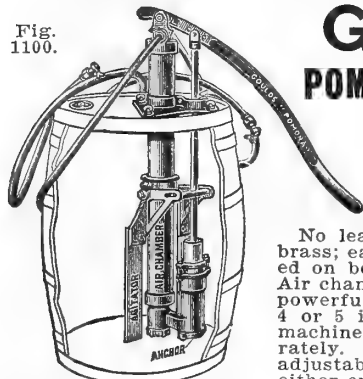
COMPARISON BETWEEN WHITEWASHING BY BRUSH METHOD AND SPRAY METHOD.

For large work the Pomona Fruitall or Monarch, page 53, are specially recommended.

	Brush Method.	Spray Method.
Labor, 2 coats at \$1.80.....	\$3.60	at \$.72 \$1.44
Material, 36 lbs. at \$.07.....	2.52	31 lbs. at .07 2.17
	\$6.12	\$3.61
Cost of painting by brush.....		\$6.12
Cost of painting by sprayer.....		3.61
Saving on small building.....		\$2.51

ALWAYS ORDER BY FIGURE WHERE FIGURE IS GIVEN

Fig. 1100.



GOULD'S POMONA SPRAY PUMP

With Agitator. All Working Parts Bronze.

Plunger—Diameter, 2½ inches; stroke, adjustable to 3, 4, 5 in.; discharge, ½-in. hose.

No leather packing. Valves are brass; easily accessible; wing guided on beveled seats, ground to fit. Air chamber steel. Lever long and powerful, with adjustable stroke, 3, 4 or 5 inch. Solid brass plunger, machine turned, fitting gland accurately. Pump is held securely by adjustable clamp plate, made to fit either end or side of barrel, and by

a small anchor located at bottom of barrel. The mechanical agitator is operated by stroke of the handle. For those preferring these Pumps with brass pipe plunger rod instead of iron, can furnish same \$1.25 extra list; \$1.00 retail.

Fig. 1100. Outfit A, for Single Lead.	List Price.	Retail Price.
Fitted for one lead ½-in. discharge hose with hose bands, couplings, agitator and 1 Vermorel (or Bordeaux Nozzle), but without hose.....	\$19.50	\$13.50
Rubber hose, extra per foot.....		.15
½-inch spray, No. 1.....		.20
½-inch spray, No. 2, wire wrapped.....		2.50
Barrel extra.....		

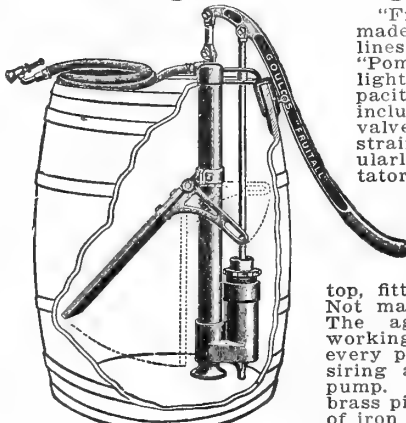
Fig. 1100. Outfit B, for Double Lead.	List Price.	Retail Price.
Fitted for two leads ½-in. discharge hose with hose bands, couplings, agitator and 2 Vermorel (or Bordeaux Nozzles), but without hose.....	22.50	15.50
Rubber hose, extra per foot.....		.15
½-inch spray, No. 1.....		.20
½-inch spray, No. 2, wire wrapped.....		2.50
Barrel extra.....		

These Pumps, Figs. 1100 and 1188, are peculiarly adapted to the use of lime and sulphur solution, but can also be used for other insecticides.

If Mistry, Mistry Junior or the swivel attachment to the Mistry Junior be wanted, add the difference in price of same between Vermorel or Bordeaux.

GOULD'S "FRUITALL" SPRAY PUMP

With Agitator. All Working Parts Bronze.



"Fruitall" Spray Pump is made on the same general lines as our now famous "Pomona." It is, however, lighter and of smaller capacity. All working parts, including plunger, gland, valves, valve seats and strainer, are of brass. Regularly fitted with ring agitator similar to one used on "Pomona," and which has proven to be the best type. Pump is held in barrel by anchor at bottom and adjustable clamp at

top, fitted over end of stave. Not made for side of barrel. The agitator is a perfect working device and answers every purpose for anyone desiring a lighter and cheaper pump. For those preferring brass pipe plunger rod instead of iron pipe, can furnish same \$1.25 extra list; \$1.00 retail.

Plunger—Diameter, 2 in.; stroke, 4 in.; discharge, ½-in. hose. Fig. 1188. PUMP, EQUIPMENT, ETC.

Outfit A, for One Lead of Hose.	Price.	Price.
Fitted for one lead of ½-in. discharge hose with hose bands, couplings, agitator and 1 Vermorel (or Bordeaux Nozzle), but without hose.....	\$12.00	\$8.00
Rubber hose, extra per foot.....		.15
½-inch spray, No. 1.....		.20
½-inch spray, No. 2, wire wrapped.....		2.50
Barrel extra.....		

Outfit B, for Two Leads of Hose.	Price.	Price.
Fitted for two leads ½-in. discharge hose with hose bands, couplings, agitator and 2 Vermorel (or Bordeaux Nozzles), but without hose.....	15.00	9.75
Rubber hose, extra per foot.....		.15
½-inch spray, No. 1.....		.20
½-inch spray, No. 2, wire wrapped.....		2.50
Barrel extra.....		

Fig. 1506.



Gould's Improved "Monarch" Two-Cylinder Spray Pump

Vertical Outside Packed, Bronze Plungers, Bronze Glands, Valves, Etc.

Fig. 1506—"Monarch," has two bronze plungers operating in two vertical cylinders, which are packed with a material unaffected by spraying solutions. This construction permits all gritty particles to pass through the valves and out and does not grind the cylinder. The ports are large and direct. The valves are bronze, ground to fit their bronze seats, are accessible through handholes. The lever is so arranged as to be operated in two positions. The "Monarch" combines large capacity and ease of operation, and we do not hesitate to say that this is the easiest operated Pump of its capacity on the market.

PUMP EQUIPMENT, ETC.

No. 0.—Diameter cylinders, 2 inches; suction, ¼-in. hose; discharge, ½-in. hose.

Fig. 1506. Outfit C, for One Lead of ½-in. Discharge Hose.

Fitted for ¾-in. suction hose and one lead of ½-in. discharge hose, with strainer, hose bands, couplings and one Vermorel (or Bordeaux Nozzles), but without hose.....	List Price.	Retail Price.
	\$29.50	\$20.00

Fig. 1506. Outfit D, for Two Leads of ½-in. Discharge Hose.	List Price.	Retail Price.
Fitted for ¾-in. suction hose and two leads of ½-in. discharge hose with strainer, hose bands, couplings and two Vermorel (or Bordeaux Nozzles), but without hose.....	33.25	22.50

Rubber Hose for Above Outfits.	List Price.	Retail Price.
½-inch spray, No. 1.....		.15
½-inch spray, No. 2, wire wrapped.....		.20
¾-in. suction.....		.20

In ordering, please give length of hose wanted, also the outfit.

SPRAYING TANKS

The illustration shows our half-round Tank, which is especially adapted for use with our MONARCH (Fig. 1506) PUMP. Complete outfits furnished; consisting of Power Pumps with or without Gasoline Engine, and with Spraying Tank and Low Down Wagon. Price on application.

100-gallon Cask, no Agitator.....\$12.00

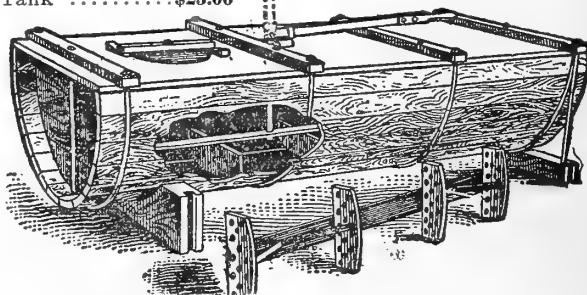
Prices With Agitator and Bolsters.

150-gallon Half-round Tank.....\$17.00

200-gallon Half-round Tank.....\$20.00

250-gallon Half-round Tank.....\$25.00

The staves are made of 1½-inch pine, strongly gripped with steel and hard wood. The joints are machine made. The tank weighs about 200 lbs., is 8 ft. long, 3 ft. wide and holds 8 bbls. of liquid. Tanks are furnished with or without agitator.



OILED CLOTHING, ETC.

As it is necessary for the protection of horse and operator in the use of the caustic washes in spraying, we are adding a new line to our already full spraying equipment, in order to be ready to meet all requirements of the spraying community, and are now prepared to furnish Oiled Clothing and Horse Covers, in either black or yellow. Also Goggles, Gloves and Hats. As the various kinds and quantities are so extensive we are unable to give prices for want of room, but will be pleased to do so on application.

Gasoline Engine Power Pumps furnished on application.

ALWAYS ORDER BY FIGURE WHERE FIGURE IS GIVEN

Gould's "Mistry" Nozzle

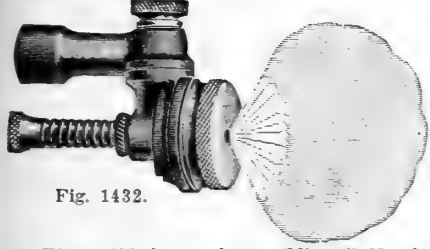


Fig. 1432.

Fig. 1432 is our large "Mistry" Nozzle, which produces a greater area of spray than two Fig. 55. It has an adjustment which allows the spray to be thrown at any desired angle. In this Nozzle you have the effect of two good Nozzles with only one to attend to—a very good feature. Price, \$1.50.
Extra Caps for Fig. 1432, each, 25c.



Fig. 1501

The Bordeaux, in the character of the spray, is readily changed from a solid stream to a mist-like, fan-shaped spray. Should there be any clogging of the nozzles with the spray material, it is easily remedied by turning the handle. Price, 75c.

MISTRY, JR.

Fig. 1501.

The best Nozzle we have ever seen for spraying sedimental solutions, the exit hole being larger than ordinarily, but has two holes of entrance to fill the large cap, and the force gives the solution a terrific rotary motion, producing a perfect mist. The cut shows this nozzle taken apart so as to expose the working parts. Price, \$1.25. Extra Steel Discs, 5c.

Fig. 1507—Swivel elbow for Mistry Junior, combined with Mistry Junior, \$1.25.

Original Deming Bordeaux Nozzle



Fig. 18.



Fig. 1074 1/2.



Fig. 67.



Fig. 1272.



Fig. 85.



Fig. 504.



Fig. 49 1/2.



Fig. 65.



Fig. 49.



Fig. 89.



Fig. 54



COOPER HOSE MENDER

Each, 10c. Doz., \$1.00.

1/2-in. and 3/4-in. Rubber Washers, each, 5c.; doz., 50c.
1/2-in. and 3/4-in. Leather Washers, each, 5c.; doz., 50c.

Deming Vermorel Nozzle

This is an improvement on the old style Vermorel Nozzle; the spray is finer and more even in distribution. The cap with the smaller hole makes the finer spray. Price, with extra cap, 75c. each.



Fig. 963.



Fig. 753.

Demorel Nozzle

This is also an improvement on the old style Vermorel, a very superior nozzle. The cap with the smaller hole makes the finer spray. Price, with extra cap, 75c. each.

SPRAY PUMP EXTRAS

(Order by Figure)

- Fig. 65—To make connection between 1/2 or 3/4-inch hose coupling and spray nozzle, 25c.
- Fig. 67—Has male end to wire into 1/2-inch hose, other end cut 1/4-inch male pipe thread, 25c.
- Fig. 85—Brass stop cock shank for wiring 1/2-inch hose, other end 1/4-inch male thread, 65c.
- Fig. 54—Brass stop cock, cut 1/4-inch female pipe thread both ends, 65c.

(Fig. 504.) BRASS HOSE COUPLINGS.

Size, inches	1/2	3/4	1	1 1/2	2
Price, each	15c.	15c.	25c.	\$1.00	\$2.00
Fig. 89—3/4-inch Brass Nipples	\$.25				
Fig. 89—Brass Nipples, 1-inch	.50				
Wing Agitator Comp. for Pomona	2.00				
Wing Agitator Comp. for Fruit-All	1.50				
Fig. 49—Brass Y with male pipe thread on inlet	.80				
Fig. 49 1/2—Brass Y, female thread on inlet, for two nozzles	.80				
Fig. 1074—Brass Y for 2 nozzles	.50				
Fig. 1074 1/2—Brass Y for 2 nozzles	.50				
Selden's Packing for Figs. 1100 and 1188, Pump, lb.	2.00				

FUNNEL AND STRAINER. (Fig. 1273.)

- Tin, with brass 20-mesh wire strainer, \$1.50
- Galvanized, with brass 20-mesh wire strainer, 1.75

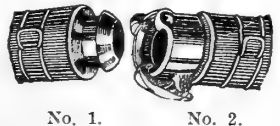
BRASS HOSE CLAMPS. (Fig. 1272.)

A Screwdriver does the business.

1/2	3/4	1	1 1/4	1 1/2	2
5c.	5c.	10c.	15c.	20c.	25c.

Just snaps together, that's all.

Snap Hose Couplings



No. 1. No. 2.

Made to insert in hose or screw on old coupling parts already in use. Prices: Complete, each, 30c. Doz., \$3.00. No. 1, Female, separate, each, 20c. Doz., \$2.00. No. 2, Male, separate, each, 10c. Doz., \$1.00.

- Fig. 750D—Bamboo Rods, 8 ft. long, lined with brass pipe, arranged with brass stop cock, \$3.00.
- Fig. 752D—Bamboo Rods, lined with iron pipe, arranged with brass stop cock, \$1.75.

- Fig. 545—Iron pipe extension, 8 ft. long, complete with cock, \$1.00.
- Fig. 546—Iron pipe hose extension, 8 ft. long, without cock, 50c.

Old Style Vermorel Nozzle

Fig. 55. Each with Degorger.

- One Discharge—List price, \$1.00. Retail price, 75c.
 - Two Discharge—List price, \$2.00. Retail price, \$1.50.
 - Three Discharge—List price, \$2.75. Retail price, \$2.50.
- Caps for above, each, 10c.

Spray Pump Repairs

Fig. 1100.

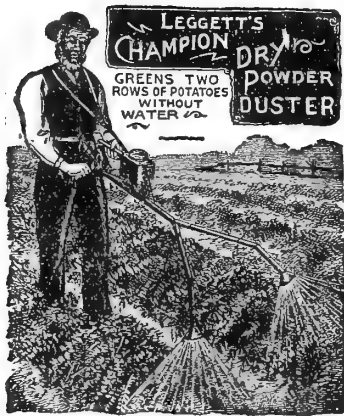
- Cylinder or Bottom Section, \$1.75
- Brass Plunger Complete, no Rod, 4.00
- Plunger Rods only, .35
- Plunger Rod Crosshead, .25
- Brass Suction Valve, .40
- Brass Suction Valve Seat, 1.00
- Brass Suction Strainer, .60
- Brass Discharge Valve, .40
- Brass Discharge Valve Seat, .50
- Anchor or Steady Rest, Complete, .25
- Lever, 1.00
- Agitator Iron Wings or Arms, R. & L., .35

Fig. 1188.

- Cylinder or bottom section, 1.00
- Brass Plunger Complete, no Rod, 1.25
- Plunger Rod only, .50
- Plunger Rod Crosshead, .25
- Brass Suction Valve, Seat and Strainer, 1.00
- Brass Discharge Valve, .25
- Brass Discharge Seat, .50
- Anchor or Steady Rest, Complete Bolts and Washers, .15
- Lever, .75
- Links, .15
- Barrel Attachments, .50
- Barrel Attachment Thumb Screw, .08
- Agitator Iron Arms, R. & L., each, .20

Fig. 1506.

- Brass Valve Seats, .25
- Brass Valves, .35
- Brass Plungers, with Heads, 3.75
- Brass Strainer, .50



For farm, garden, vineyard, tobacco fields, etc. Adjustable to any width of row. Many thousands in use. Distributes Paris Green, London Purple, Hellebore, Sulphur, Lime, Dry Bordeaux Mixture, Dry Bordeaux Mixture and Paris Green Compound, Spanish Pink, Pyrethrum Powder, etc.

This Machine keeps the Poison at a Safe Distance from the Operator.
Dusts potato vines as fast as you walk, two rows at a time. Each machine is furnished with two tubes, five nozzles and strap. Anyone can use it. Weighs cased for shipping, 14 pounds. \$7.50.

PLASTER SIFTER

Handles land plaster and any similar substance without the necessity of covering the hands or the clothing with the poisoned powder. We furnish a false bottom, which prevents anything clogging the agitator.

Price, 50c.



WATSON HIGH PRESSURE 4-ROW POTATO SPRAYER

ENTIRELY AUTOMATIC, WITH AGITATOR AND BRUSHES WHICH STIR THE LIQUID AND KEEP THE SUCTION STRAINERS CLEAN.

Fitted with thills for one horse; tank holds 60 gallons.
Double-cylinder pump, each cylinder 2½x8 inches; separate suction pipes and all working parts are made of brass. No leather valves.

The best automatic mechanical agitator fitted with automatic brushes to keep suction strainers clean, insuring a steady and continuous supply in thorough solution and without clogging. Wheels 50 inches in diameter, adjustable on axle for rows planted 2½ to 3 feet apart; 3-inch tire.

Axle 1 7-16 inch turned steel; 3 babbitted boxes, one at the center of the axle to prevent springing.

Pressure adjustable, 50 to 100 pounds, at the will of the operator by the use of a back-pressure safety-valve, which will enable the pressure to be gotten up and the mixture thoroughly stirred before commencing to spray.

A vertical adjustment of pipes and nozzles to allow a privilege of 12 inches up or down; extreme height, 40 inches from the ground.

Nozzles and pipes as shown are in position for spraying four rows of potatoes when the tops are small; may be removed for passing through gates by loosening two thumb screws.

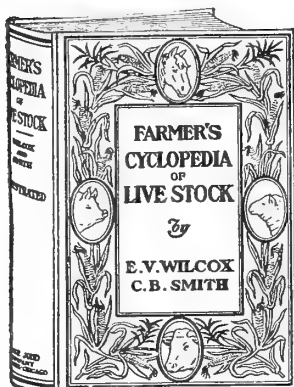
The Watson will spray from 30 to 40 acres of potatoes, cotton, tobacco or vegetables for a day's work, and without waste of liquid. Weight, packed for shipment, 550 pounds.

Price, complete as shown.....\$70.00



FIG. 111.

STANDARD RURAL BOOKS—"Farmer's Cyclopedia of Live Stock"

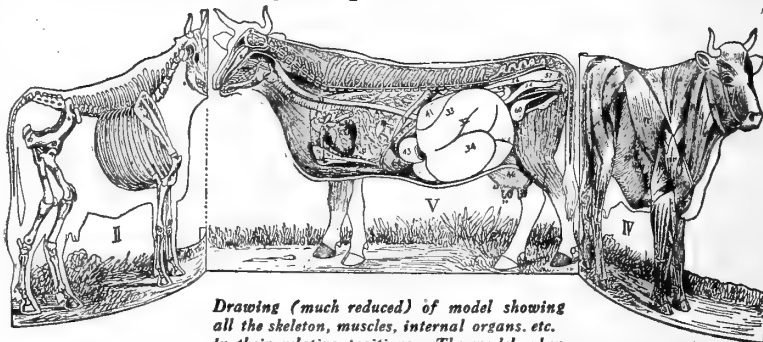


A compendium of the science, economics, and practice of stock raising, dairying and poultry farming, comprising the origin, anatomy, physiology, breeding, feeding, diseases, management, marketing and slaughtering of farm stock and the utilization of animal products.

A Very Valuable Reference Book.

By EARLEY VERNON WILCOX, Ph.D.
CLARENCE BEAMAN SMITH, M.S.

Colored Plates and Illustrations.



Drawing (much reduced) of model showing all the skeleton, muscles, internal organs, etc. in their relative positions. The model when opened to the fullest extent measures 21 x 7 inches and folds up into a flat compass measuring only 7 x 5 inches.

A marked feature of this work is the exclusive character of its many superb illustrations. This is a new book treating of the whole subject of animal husbandry. It gives in one volume a clear, concise, accurate account of the world's knowledge to date of every phase of Live Stock farming. Animal Industry in America is an enormous business. The subject has heretofore never been adequately and concisely treated in a single volume. Some vital phases of it have always been neglected. This volume treats Animal Industry as a rounded whole, and from many standpoints never previously touched upon. This has been made necessary by our advancing knowledge of the subject along all lines, by the recent enactment of national laws regulating the transportation of animals, the handling and curing and sale of meats, and the control of certain contagious animal diseases of national importance. Send for free Catalogue of Books.

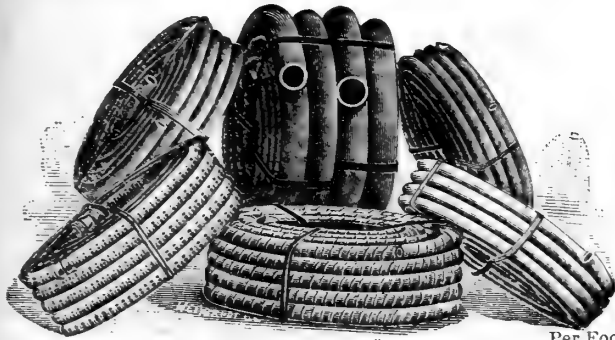
Cloth, handsome and durable, gold stamping.....\$4.50
Half Morocco, with cloth sides and leather corners, very sumptuous..... 5.50

Send for our list, which comprises the newest and best books pertaining to the practice and science of agriculture and allied subjects published in the English language. Any of these books will be forwarded by mail, postpaid, to any part of the country at publishers' prices. Will be glad to correspond with our customers on any matters pertaining to rural books.

Our list of books treats of the following subjects: General Agricultural Topics; Sheep and Swine; Poultry; Irrigation and Drainage; Cattle and Dairying; Farm Science; Farm Crops; Fruit Crops; Vegetable Crops; Landscape Gardening and Forestry; Insects and Plant Diseases; Buildings and Other Conveniences, and other special subjects.

Will state in this connection that all of these books are written by leading and well-known scientific writers.

RUBBER HOSE



ORIOLE.—3-ply, 3/4-in., in 25 and 50 foot lengths (100 lbs. pressure) \$.12
GRIFFITH & TURNER CO.'S EXTRA.—3-ply, 3/4-in., in 25 and 50 foot lengths (125 pounds pressure)14
CREST.—3-ply, 3/4-in., in 25 and 50 foot lengths (200 lbs. pressure)16
GRIFFITH.—5-ply, 3/4-in., in 25 and 50 foot lengths (500 lbs. pressure)16
 3/4 Hose comes in 25 and 50 foot lengths. We cannot cut other lengths. For Hose 25 feet long add to price 1/4 c. per foot.

RUBBER HOSE FOR SPRAY PUMPS.

3/8-inch Tubing	Per Foot.	\$.10
1/2-inch Spray, No. 1 .....		.15
1/2-inch Spray, No. 2, wire-wound .....		.20
1-inch 3-ply Hose .....		.20
2-inch wire-lined-suction .....		.40

1/2-inch Hose comes in 10, 15, 25 and 30 foot lengths. We cannot cut other lengths.
 2-inch Hose comes in 5, 10 and 20 foot lengths.

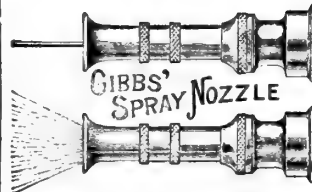
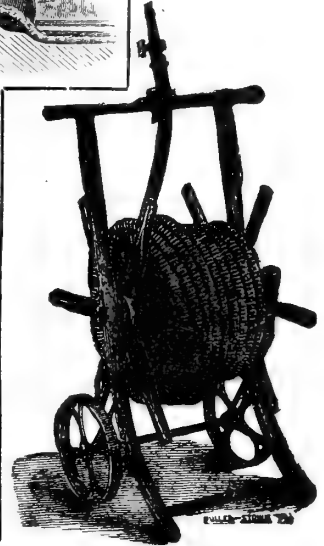
"Diamond" Lawn Edger and Trimmer



For trimming the edges of lawns along cement walks, driveways and gravel walks and may also be used for outlining flower beds, of various shapes, such as stars, circles, diamonds, crescents, etc. Price, \$2.00.

HOSE REELS

Gem\$2.00
 Virginia 1.00

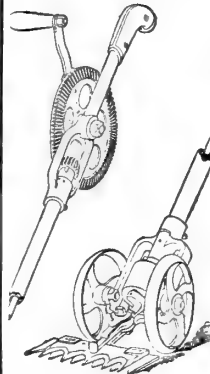


GIBBS' ADJUSTABLE HOSE NOZZLES.
 For throwing fine or coarse spray, or straight stream.
 For 3/4-inch Rubber Hose... \$.35
 1-inch Screw Tip Pipe Nozzles, 8 1/2-in. long50
 For 1-inch Gibbs \$.75

GRITCO HOSE



The construction of this Hose is entirely different from regular Hose. Over a seamless tube of high-grade rubber is braided one or more plies of tightly twisted cotton yarn.
 Between each ply is placed a distinct layer of high-grade rubber.
 The Hose is protected by a cover made of rubber especially compounded to withstand hard usage.
 It is vulcanized in our patented molds under very high pressure, which forces the rubber through the cotton fabric, thereby making a homogeneous body.
 This Hose is manufactured in continuous lengths up to five hundred feet. 3/4-inch, per foot, 16c.

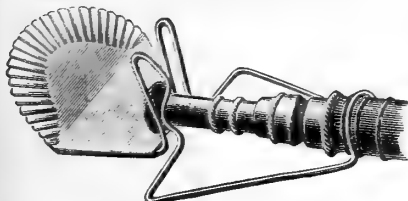


"FOUNTAIN SPRINKLER"



Made of heavy brass. Easily moved over the lawn without turning off the water. The mist-like spray is a veritable "thing of beauty." Price, \$1.00.

CRESCENT WAVE SPRINKLER



Price.....25c.
 It is attachable to any nozzle. Can be operated from the hand. Supports nozzle in position when placed upon the ground. Distributes water evenly and in a shower-like manner.
 Permits of full flow from the nozzle, thus lessening the liability of bursting the hose. May be shifted without closing hydrant. No treading on wet grass when shifting. Not necessary to detach when reeling hose. Durable and never out of order.

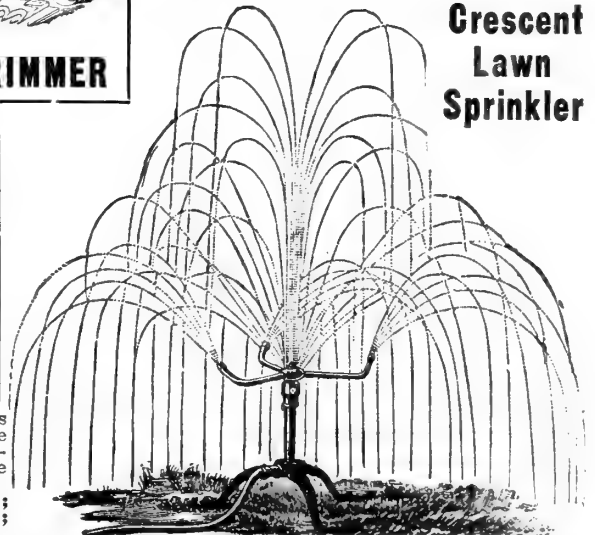
BARTON LAWN TRIMMER

Doing away with sickle and shears. No stooping down.
 Can be worked around where the lawn mower cannot cut.
 The machine is all ready for use.
 You get full directions and an emery stone along with each machine, with which it is no trouble to keep it sharp.
 Price, \$5.00.

C. B. G. SPRINKLER.

This is the cheapest and one of the most effective sprinklers made. The distribution of water is perfect. Price 20c. By mail, 25c.

The Crescent Sprinkler is compactly and strongly made with phosphor-bronze bearing, and will cover a surface 48 feet in diameter.
 Price: 12-in. high, \$1.50;
 24-in. high, on sled, \$2.50;
 36-in. high, on sled, \$3.00.



KIL-O-SCALE A SCIENTIFIC CHEMICAL COMPOUND FOR EXTERMINATING THE SAN JOSE SCALE

KIL-O-SCALE Still Forging Ahead



KIL-O-SCALE was the first commercial remedy on the market for the destruction of the San Jose Scale. The best and most reliable oil remedy. Perfectly soluble in water in any proportion. KIL-O-SCALE is not simply an oil remedy, it contains other chemical preparations, each in itself being an insecticide of more or less efficiency.

DESCRIPTIVE

KIL-O-SCALE is a scientific Chemical Compound; is a perfect remedy against San Jose Scale; dissolves the wax which cements the scale or protecting cover of the insect to the tree; contracts the scale or coating covering the insect, thus exposing the insect itself to the direct action of the insecticide; forms after spraying a coating which prevents any young scale from settling before they die from exposure; fills the respirative and digestive organs of the insect, thus destroying life; after applying to the tree, generates in drying a poisonous gas, absolutely destructive of insect life; is made and shipped only in concentrated form, and will mix with cold water in any proportion; is economical; is easy to apply; is not a mixture of chemicals, but a chemical product, resulting from a definite chemical process; **KIL-O-SCALE** is not a "Quack Remedy," but is prepared for the specific purpose of killing the San Jose Scale; will not clog the spray pump or nozzle; may be used in the late fall and during the winter and early spring, up until the buds swell. Will not injure the trees.

DIRECTIONS

KIL-O-SCALE is a concentrated LIQUID and is shipped in barrels, kegs and cans.

To one gallon of **KIL-O-SCALE** add 18 gallons of cold water and stir. It is then ready to be applied to the trees.

As **KIL-O-SCALE** will congeal in Cold Weather, be Sure to Stir Well Before Mixing With Water.

Pint Cans, each.....	.30	Two-Gallon Cans, wt. 20 lbs.,	\$2.25
Quart Cans, per quart.....	.50	Five-Gallon Cans, wt. 40 lbs.,	5.00
Half-Gallon Cans, ..	.75	Ten-Gallon Cans, wt. 80 lbs.,	10.00
One-Gallon Cans,		Half-Barrels (25 gals.), wt.	
wt. 10 lbs.....	1.25	255 lbs.....	22.50
		BARRELS, PER GALLON, 85c. Wt. 450 lbs.	

SOLUBLE OIL. 95 Per Cent. For Use in the Dormant Period.

This is one of the greatest remedies for all Scale insects. It will not stain or discolor the trees, thus making it one of the most desirable materials for spraying lawn trees, shrubs and hedges. It is specially recommended for apple and pear trees.

It mixes perfectly with water and is stable when mixed. It does not separate. This insures the best results. It is not injurious to the twigs or buds, thus constituting the safest material to use.

1 Gal. Cans.....	\$1.00 each.	10 Gal. Cans.....	\$6.65 each.
5 Gal. Cans.....	3.65 each.	Half-Barrels.....	60c. per gal.
	Barrels.....		50c. per gal.

Add 15 parts cold water to 1 part of Soluble Oil; stir thoroughly and apply with spray pump.

"ORCHARD BRAND" LIME SULPHUR SOLUTION.

For Use in the Dormant Period.

This material combines the great fungicidal properties of Sulphur with the Scale remedy and is specially recommended for peach and plum trees which need the combined treatment in the fall and spring. In spraying this material care should be exercised to avoid getting it in the eyes, and gloves should protect the hands.

1 Gal. Cans.....	\$.75 each.	10 Gal. Cans.....	\$3.75 each.
5 Gal. Cans.....	2.25 each.	Half-Barrels.....	7.00 each.
	Barrels.....		\$12.00 each.

Add 10 parts cold water to 1 part of LIME SULPHUR SOLUTION and stir thoroughly. Apply with spray pump.

FLOWERS OF SULPHUR.

Pound, 10c. Five pounds, 8c. Ten pounds, 6½c.

N. B.—If by mail, add 15c. per pound for postage.

25 pounds.....	\$.06	100 pounds.....	\$.04½
50 pounds.....	.05½	Barrels, 155 lbs., (net)	.03

Prices subject to change without notice.

FLOUR OF SULPHUR.

Barrels of 250 lbs.	\$.02¾ lb.	Per 25 lbs.	\$.05 lb.
Per 50 lbs. . . . .	.04½ lb.	Per 10 lbs. . . . .	.06 lb.
	Per 5 lbs.		\$.08 lb.

"ORCHARD BRAND" BORDEAUX MIXTURE.

The Greatest Fungicide Known.

The most approved form is paste and more effective, and you are not paying for water. Recommended for rust and scab and all kinds of rot.

Should be used on Potatoes, Grape Vines and all fruit trees, except Peach and Plum. (If used on Peach it should be used only at half strength.)

1 lb. Cans, each.....	\$.12	20 lb. Kits, each.....	\$1.65
2 lb. Cans, each.....	.22	50 lb. Kits, each.....	3.50
5 lb. Cans, each.....	.50	100 lb. Kegs, each.....	6.50
10 lb. Cans, each.....	.90	Barrels, 400 to 600 lbs.,	6c. lb.

KEROSENE EMULSION (Liquid).

Ready for use by simply adding water, 25 to 50 parts to one. This is strictly an insecticide for plant lice of all kinds, rose bugs, cabbage bugs, melon insects, fowl, human and animal lice, caterpillars, tobacco flies, peach lice, red spiders, green fly and all sucking insects. Quart, 40c. Gallon, \$1.00. Five gallons, \$4.00.

"ORCHARD BRAND" ARSENATE LEAD (Poison).

To control Codling Moth, Curculio and all leaf-eating insects. Specially recommended for treating all lawn shrubbery, such as rose bushes and all tender plants; also for all garden plants and particularly for Potatoes. It sticks to the plants and is absolutely free from any danger of burning. Better than Paris Green.

1 lb. Cans, each.....	\$.25	20 lb. Buckets, each.....	\$3.25
2 lb. Cans, each.....	.40	50 lb. Buckets, each.....	7.00
5 lb. Cans, each.....	.95	100 lb. Kegs, each.....	13.00
10 lb. Cans, each.....	1.75	Barrels, abt. 400 lbs.,	10¾c. lb.

For use add cold water slowly and stir until a thin paste is obtained before adding to the volume of water. Use one ounce to a gallon of water and apply with a spray pump.

"ORCHARD BRAND" BORDEAUX-ARSENATE-LEAD MIXTURE.

This is a combined fungicide and insecticide specially recommended for Apple and Pear trees, also for Potatoes, Melons and Cucumber vines.

1 lb. Packages, each... .	\$.18	20 lb. Kegs, each.....	\$2.50
2 lb. Packages, each... .	.30	50 lb. Kegs, each.....	5.75
5 lb. Packages, each... .	.70	100 lb. Kegs, each.....	10.50
10 lb. Kegs, each.....	1.30	Barrels, 400 to 600 lbs.,	10c. lb.

For use add 2½ to 4 oz. to one gallon of water and stir.

WHOLE OIL SOAP WITH TOBACCO.

Combines with the Valuable Properties of Whale Oil Soap the Insecticide Values of Tobacco and Nicotine.

Apply for green-fly or aphid, one-half ounce to gallon of water; one ounce for mealy bugs and two ounces for most greenhouse scale. Outside purposes, double the strength for same kind of pest.

For San Jose Scale, two pounds to the gallon of water on dormant trees. For trees in leaf, one pound to the gallon is a safe spray. Price, 1 lb., 15c; 2 lbs., 25c; 5 lb. pkg., 60c.

Sulpho-Tobacco Soap is a powerful agent for the destruction of all bugs and insects. One or two applications will rid plants of the pests. Full directions with each cake.

Destroys cabbage, squash- and potato-bugs, currant-worms, lice, green-fly, mealy bug, red spider, etc. Sure death to all plant insects indoors and out-of-doors. Of special value for spraying shrubs, fruit-trees and vines.

3-oz. cake makes 1½ gallons prepared solution. 10c. Mailed, postpaid, for 13c.
8-oz. cake makes 4 gallons prepared solution. 20c. Mailed, postpaid, for 25c.
10-lb. cake makes 80 gallons prepared solution. By express, \$3.00.

Copper Sulphate (Blue Stone) Write for Prices.





KIL-WEED



NOT TO BE USED ON LAWNS

A SCIENTIFIC WEED DESTROYER. FREE FROM ODOR.

Kil-Weed, by analysis, is as strong as the strongest weed-killer on the market.

An unsurpassed preparation for the removal of grass, weeds, vines and bushes from paths, roadways, gutters, streets and any other place from which it is desired to remove any and all vegetable growths; thus destroying the breeding ground for mosquitoes. The work can be done in a speedy, thorough, economical and easy manner. The material has no bad effect on the ground, neither does it injure or discolor the brick, stone or marble curbing, really acting as a cleanser of them.

The attention of Street Cleaning Departments is called to this solution. All organic growth is destroyed. No more digging and disfiguring of paths and roadways. Saves expense of several men. **KIL-WEED** not only kills weeds, but destroys seed germs and roots of plants. The best time to use **KIL-WEED** is after a rain. Can be used with an ordinary sprinkling can. One gallon **KIL-WEED** will make 30 to 35 gallons treating liquid when mixed with water. One man with a sprinkling can, in one hour can do as much or more than six men could in one-half day, and do the work better. Judgment should be exercised in using **KIL-WEED**, as it is impossible to give full directions to suit every case. If the weeds are large and strong the solution should be made stronger than for ordinary grass and weeds. They should be cut down so that the solution may the more readily reach the roots.

TESTIMONIALS

Dear Sirs—I used five gallons of the Kil-weed purchased of you and it gave entire satisfaction. It killed all the weeds and grass, and they stayed killed.

Aug. 8, 1908.

O. B. MAGRUDER,
Manager for Miss N. E. Sloan.

Gentlemen—I purchased some of your Kil-Weed and found the same to be quite effective and entirely satisfactory.

Yours truly,
JOHN B. HARMON,
Gardener to Mrs. D. C. Howell.
Belle Grove, Md., Oct. 1, 1908.

Gentlemen—I ordered ten gallons of your Kil-weed, which proved entirely satisfactory. I would not do without the same. It is a great labor and time saver. It kills the weeds to stay killed.

Yours respectfully,
W. J. TEIPE,
Gardener for Mr. N. J. James.

1 Quart Can.....\$.35	5 Gallon Can.....\$4.00
½ Gallon Can..... .60	10 Gallon Can..... 7.50
1 Gallon Can..... 1.00	1 Barrel, per gal... .70

FULL DIRECTIONS WITH EVERY CONTAINER.



KIL-WORM



Destroys Worms, Ants, Etc., Infesting Golf, Cricket Grounds, Parks and Lawns. Sure Death to Snails.

(For use on Golf and Cricket Grounds, Parks, Cemeteries, Etc.)

KIL-WORM does not injure grass, but acts rather as a fertilizer. (NOTE—Must not come in contact with fine plants).

KIL-WORM has been thoroughly tested and found perfectly satisfactory.

KIL-WORM kills Worms, Ants, Snails, etc. Causes the insects to come to the surface to die.

KIL-WORM is the result of much scientific study and is not a hastily compounded concoction, just gotten up to sell. All we ask is a trial.

One gallon **KIL-WORM** makes fifty gallons liquid when mixed with water.

PRICES

1 Quart Bottle.....\$.65	1 Gallon Jug.....\$2.00
½ Gallon Bottle..... 1.25	5 Gallon Jug..... 9.00
Barrels (45 gallons). Per gallon..... 1.75	

FULL DIRECTIONS WITH EVERY CONTAINER.

LEMON OIL

Odorless and non-poisonous. As a flea killer, wash and mange remedy for animals is unequalled. Perfectly safe and harmless to the tenderest foliage and roots. It effectually destroys mealy bugs by syringing or dipping. It also destroys scale, thrip, red spider, black and green fly, caterpillar, American blight, mildew, etc. Dilute with fifty parts water. One-half pint, 25c. Pint, 40c. Quart, 75c. One-half gal., \$1.25. Gal. \$2.00.

PARIS GREEN

One-quarter pound, 10c. Pound, 30c.; by mail, 45c.

PURE WHITE HELLEBORE

The cheapest and best preparation for destroying rose slugs, currant worms, etc. One-quarter pound, 10c. Pound, 30c. By mail, 45c. per pound.

TOBACCO DUST, FINE.

For green and black aphids, fleas, beetles, etc. Splendid fertilizer and preventive for insects in the ground and around roots. For insects on plants apply with powder duster or bellows. For worms or grubs in the soil apply liberally to the surface and rake in, or strew thickly in the drills before planting.

Price: 5 pounds, 25c.; 20 pounds, 80c.; 100 pounds, \$3.75.

TOBACCO STEMS.

Indispensable for fumigating greenhouses and conservatories for the destruction of green and black aphids and other insects.

Dampen thoroughly a few hours before using, place about a half-pound over a handful of shavings in a fumigator and light. 5c. a pound. Large quantities, 50 pounds, 3c. pound.



BUG DEATH kills Potato, Squash and Cucumber Bugs, Currant and Tomato Worms, and all bugs and worms that chew the leaves of plants; non-poisonous.

Directions for Applying Dry.

For potato and other vines which require a top application, apply dry with Shaker or Sifter, at the rate of 12½ lbs. or more per acre to an application, according to size and conditions of the vines.

1-pound package.....\$.15
3-pound package..... .35
5-pound package..... .50
12½-pound package... 1.00
100 pounds..... 7.50

Directions for Using in Water.

Add 12½ lbs. to 80 gallons of water, and mix thoroughly.

Pat. March 16 and Nov. 9, 1897

Pat. in Canada Nov. 2, 1897.

and Jan. 25, 1900.

PERFECTION SHAKER, 65c.

For applying Bug Death to potato vines.

KNO-BUG SIFTERS, 50c.

HAMMOND SLUG SHOT.

A non-poisonous powder, and a very popular insecticide; it requires no further mixing or preparation; easily applied, and not injurious or dangerous to animals, the person applying it, or fruits and vegetables treated. Very effectual in destroying potato bugs and beetles, green and black fly, slugs, worms, caterpillars, etc. Ten to forty pounds is sufficient for an acre. Five-pound packages, 25c. Ten-pound packages, 45c. Twenty-five-pound packages, \$1.00.

POULTRY REMEDIES AND GREENHOUSE INSECTICIDES

TRADE MARK
KUR-ROUP
ROUP **G&T** CANKER
DIPHTHERIA

FOR CHICKENS.—This Roup Cure is guaranteed to cure Roup, Canker and Diphtheritic Roup where it is used according to directions on every package, except in cases where the fowl is in the last and incurable stages of the disease.

Our Kur-Roup is put up especially for us from a scientific remedy, in which is combined a strong tonic and blood purifier, building up the system, dispersing the disease.
50c. Per Package, Postpaid.

HAVEN'S ROUP PILLS.—For the cure of Roup, Catarrh, Colds, etc. Box, 25c.

G&T CHOLERA REMEDY
For treatment of indigestion, bowel trouble, diarrhoea, constipation and troubles of like character in old and young fowls there is no better remedy. Should always be kept on hand. If fowl is afflicted with loss of appetite and great thirst, it has cholera. Directions with every package. Price, 50c.

G&T VERMINOID LICE EXTERMINATOR
Verminoid, the Great Antiseptic, Disinfectant, Lice Killer and Cholera Preventive, is specially adapted for use in poultry-houses, sinks, cellars, drains, cesspools, stables, water closets, etc. For general use as a disinfectant or for killing vermin in chicken-houses there is nothing on the market that can excel it. Quart, 60c. ½ gal., \$1.00. Gal., \$1.50.

G&T TIC-KIL SHEEP DIP
A cold-water Sheep Dip. Antiseptic; Disinfectant; Non-Corrosive; Detergent.
Tic-Kil is a highly concentrated solution, perfectly soluble in water, which makes it very cheap and convenient. A great remedy for many skin diseases and parasitic troubles. Very purifying and acts as a deodorizer also. Directions for use on every package.
PRICE: Quart, 60c. ½ Gallon, \$1.00. Gallon, \$1.50. 5 Gallons, \$6.00. 10 Gallons, \$10.50. Special prices in barrels.

"THYMO-CRESOL," English Cold-Water Sheep Dip.
A gallon makes a hundred gallons for most uses. A world-famous dip, and besides, is unexcelled as an internal and external remedy for animal wounds and skin diseases, for killing animal parasites, mixing with whitewash for trees, chicken-houses, kennels, etc.
Price: Pint can, 45c. Quart can, 65c. Gallon can, \$2.00.


PRATT'S LICE KILLER Price, 25c. per package.

RUST'S CONDITION POWDERS
The only positive preventive and cure for Gapes and Poultry Cholera, and a most excellent medicine for young turkeys that have been exposed to the weather; also an excellent medicine for horses, cattle, sheep and hogs. 13-oz. pkg., 25c.; by mail, 40c. 32-oz. pkg., 50c. 5-lb. box, \$1.00.

LEE'S GERMOZONE (IN TABLETS OR LIQUID)
For roup, cholera and other poultry diseases, also skin, scalp and mucous surfaces. Specific for eruptions, inflammations, discharges, sores, wounds, etc. Germozone is a great remedy. Directions with every package. Price, per package, 50c.

LEE'S LICE KILLER Is easily applied to roost poles and about the poultry-house, and kills all vermin, mites, bedbugs, etc., that have their lodging in the cracks and crevices.
Price: Quart, 35c.; ½-gal., 60c.; gal., \$1.00; 5 gals., \$4.00.

DEATH TO LICE
A DISINFECTANT INSECT POWDER.
This powder is unrivaled as an insecticide; handy to use, cheap to buy and does the work quick.
15-oz. package, \$.25 Postpaid... \$.40
48-oz. package, .50 Postpaid... 1.00
100-oz. package, 1.00 By express.



G&T LICE POWDER
Fatal to all lice, fleas and other insect vermin. Perfectly harmless to fowls, animals and vegetable life. Invaluable for use on sitting hens. 15 oz., 25c. 48 oz., 50c. 100 oz., \$1.00.

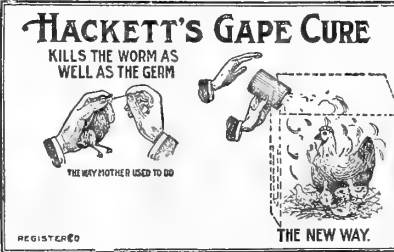
G&T LIQUID LICE KILLER
Standard remedy for destroying all species of lice, insects and mites affecting poultry and stock. Quart, 35c. 2 Quarts, 60c. 1 Gallon, \$1.00.

G&T KAN-I-NOID Mange-Cura
FOR DOGS, HOGS AND SHEEP.
If followed strictly in accordance with the directions it will positively cure the worst case of mange in a few days.

It is healing, purifying, antiseptic and disinfectant. Perfectly soluble in water.
Put up in glass and stone jugs. Price: Quart, 60c. ½ Gal., \$1.00. Gal., \$1.50.

GOING LIGHT TABLETS FOR PIGEONS
When used as per directions, will cure the dreaded disease known to Pigeon Keepers as "going light"; except in cases where the bird has reached an incurable stage of the disease. These tablets contain powerful remedial properties and should not be fed to young birds. Directions with every package. Price, 25c.

HACKETT'S GAPE CURE
KILLS THE WORM AS WELL AS THE GERM
SURE CURE FOR CHICKEN GAPES
No drugging. Simply confine the chicks and dust the Powder over them; they inhale it; kills both worm and germ; treat the whole brood at once, in less than five minutes.
Package, 25c. Postage on single package, 12c. extra.



PERSIAN INSECT POWDER, OR BUHACH.
Price: ½ pound, 15c. Pound, 40c., or by mail, 55c.
DRY—Blow on with a bellows or gun.
SOLUTION—Dissolve one ounce to three gallons of water, and apply with syringe or pump.

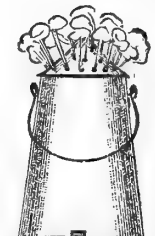
GREENHOUSE INSECTICIDES

NIKOTEEEN
Is the most powerful known insecticide, and will be found more economical and convenient than weak tobacco extracts. Price: Pint cans, \$1.50; 5 cans, \$7.00.

VAPORIZING PANS (for above).....\$.60
IRONS60
3 PANS, 3 IRONS and 1 HOOK..... 3.50

APHIS PUNK (Nikoteen).
Especially designed for use in private places and in houses without convenient furnaces for heating irons necessary for vaporizing Nikoteen or Tobacco Extract. It is very effective as an insecticide. The Punk is lighted with a match and allowed to burn, which it does without flaming, at the same time giving off dense white fumes of nikoteen that kill aphis and thrip very effectively. Per box, 60c.; per 12 boxes, \$6.50.

NICOTICIDE.
An infallible remedy for aphis, green fly and other greenhouse vermin.
No. 1—1 pint for 32,000 cu. ft. of space. \$2.50
No. 2—½ pint for 16,000 cu. ft. of space. 1.25
No. 3—4 oz. for 8,000 cu. ft. of space. .70
Lamp for evaporating, consisting of pan, wire frame and lamp. .50
After lamp is lit and pan containing compound is placed over it, the person should leave the house and not re-enter for at least two hours, as the lamp will die out soon after the compound has evaporated.



FUMIGATORS.
No. 2—Height, 16 inches. For a house 12x40 feet. Price.....\$2.00
No. 3—Height, 20 inches. For a house 15x100 feet. Price..... 2.50

High Grade Chick Feeds

**"THE FEED THAT IS ALL FEED."
ALL GRAIN AND NO GRIT.**

This feed is absolutely pure and unadulterated, containing no offal or injurious ingredients, such as rice hulls, ground straw or cobs, etc. It will not hurt or scour chicks.
1 lb., 5c. 10 lbs., 30c. 100-lb. sacks, \$2.75.

MASH FEED TO MAKE HENS LAY

This is a complete mash containing ground grain, alfalfa meal, meat meal and everything necessary for producing a large egg yield. Mix with hot water and it is ready to feed.
5 lbs., 25c. 25 lbs., \$1.00. 100-lb. sacks, \$2.50.

FATTENING FEED

This feed puts the finishing touches on chickens before sending them to market. It does it in the shortest possible time. We have given special study to grinding this feed into the proper form to give the best results. So confident are we of the value of this feed for fattening purposes that we urge a trial. Convince yourself. 5 lbs., 20c. 10 lbs., 30c. 100-lb. sacks, \$2.75.

ALFALFA MEAL

This is a green feed the year round. Everyone knows that alfalfa is fast supplanting clover. It is very high in protein, and furnishes the chicks a growing food which at the same time has a medicinal value. Its value as a helpful egg food is unquestioned. 50 lbs., \$1.25. Per 100-lb. sack, \$2.25.

PIGEON FEED

This feed is made to meet the universal demand from fanciers for something especially suitable for pigeons. The mixture contains a great variety of grain and seeds properly balanced under the direction of a successful man who has had years of study and experience with pigeons. 1 lb., 5c. 10 lbs., 30c. Per 100-lb. sack, \$2.75.

CHICKEN MANNA, or Health Food

(For Little Chicks.)

This preparation is especially prepared for little chicks when first hatched. This should be the first and only food and continue for 10 or 12 days before feeding anything else. Directions for feeding on each package. 1-lb. package, 10c.; by mail, 25c. 5-lb. package, 40c. 15-lb. package, \$1.10. 60-lb. box, bulk, \$4.20.

G. & T. EGG PRODUCER—70 Feeds for 20 Fowls.—Increases egg production; makes vigorous chicks; shortens the moult; insures maturity and adds lustre to plumage. Per package, 25c.

LEE'S EGG MAKER.—2½-lb. package, 25c. 25-lb. pail, \$2.00.

RUST'S EGG PRODUCER.—This has given our customers universal satisfaction. It supplies those substances which produce egg growth and development. So moderate in price it should be used winter and summer. 1-lb. package, 25c. 2½-lb. package, 50c. 6-lb. box, \$1.00.
If to be sent by mail, add 10c. per lb. to pay postage.

RUST'S CONDITION POWDERS.—The only positive preventive and cure for Gapes and Poultry Cholera, and a most excellent medicine for young turkeys that have been exposed to the weather; also an excellent medicine for horses, cattle, sheep and hogs. 13-oz. package, 25c; by mail, 40c. 32-oz. package, 50c. 5-lb. box, \$1.00.

PRIMO HERCULES HORSE FEED

Guaranteed Analysis:

Protein, 15 per cent. Fat, 4 per cent. Fibre, 7 per cent.
Per lb., 5c. 100-lb. sack, \$2.50.

PRIMO PULLET GROWING FEED.—Per lb., 5c. 10 lbs., 30c. Per 100-lb. sack, \$2.50.

PRIMO PEERLESS HOG FEED.—Proprietary.—The ingredients contain a large portion of protein, thereby producing firmness and fine flavor in the meat. \$3.00 per 100-lb. sack.

PRIMO MATCHLESS EGG MAKER assists the fowls in moulting and production of good, sweet flesh. Will increase largely the yield of eggs of every hen. Price, 1 lb., 5c. 10 lbs., 35c. 100-lb. sack, \$2.75.

PRIMO LITTLE JEWEL CHICK FOOD.—In this food you have a pure, perfect food and health protector. It has nature's life and health producing qualities so necessary to the life of the chick. Price, 1 lb., 5c.; 25 lbs., \$1.00; 100 lbs., \$3.00.

High Grade Hen Feeds

The Balanced Ration for Laying Hens

ALL GRAIN AND NO GRIT.

This feed is formulated from pure, sweet grains. Only those grains are used that are of known value for producing eggs. This is the feed for the poultryman who feeds for profit. 1 lb., 5c. 10 lbs., 30c. 100-lb. sacks, \$2.50.

CRACKED BONE FOR POULTRY

This article is manufactured from fresh, clean bones, and is perfectly pure and sweet. No chemicals whatever are applied to them in the course of manufacture. Should be fed to the poultry daily, like grain or any other feed. An excellent bone and egg producer, keeping the fowls strong on their legs and largely increasing their laying qualities. Especially valuable for young and grown chicks. We carry two sizes, No. 1 for grown fowls and No. 2 for young chicks. 5 lbs., 25c. 10 lbs., 40c. 50-lb. sack, \$1.50. 100-lb. sack, \$2.75.

BONE MEAL FOR POULTRY

For mixing once a day with soft feed this is unsurpassed. Laying hens and young chickens whose digestive powers are not strong are much benefited by this, especially during winter months or where closely confined in yards. This is exactly the same as the Cracked Bone described above, only it is ground much finer. 5 lbs., 25c. 10 lbs., 40c. 50 lbs., \$1.50. 100-lb. sack, \$2.75.

CRUSHED OYSTER SHELLS

This is a most important article for the poultry yard, and should be liberally supplied at all seasons of the year. It aids digestion as well as supplying lime. Experiments have proved that hens supplied with oyster shells lay more eggs. We carry two sizes in stock, No. 2 for grown fowls and No. 3 for young chicks. 5 lbs., 10c. 100 lbs., 65c. 500 lbs., \$3.00. Special prices in larger quantities.

DARLING'S PURE BEEF SCRAP

This Beef Scrap is specially prepared from pure beef trimmings and is always uniform. Good meat is very important in a poultry yard if the best results are to be obtained. 5 lbs., 25c. 10 lbs., 40c. 50 lbs., \$1.75. 100-lb. sack, \$3.25. See page 70 for Beef Scrap Hopper.

MEAT MEAL.—This is a true egg-producing, flesh and bone forming food, and supplies just what laying hens and growing chicks require. It is not a medicine. It is fed with other foods. Will promote health, growth and vigor. It is the same grade as our Meat Scrap, noted above, only ground finer, and is more suitable for small chicks and mixing with mash food. 5 lbs., 25c. 10 lbs., 40c. 50 lbs., \$2.00. 100-lb. sack, \$3.25.

GRANULATED CHARCOAL.—A little ground charcoal mixed with the soft feed in the morning, once or twice a week, is an excellent corrective for the fowls, and keeps them healthy. We carry three sizes, one for grown fowls, one for small chicks, and pulverized. 1 lb., 10c. 5 lbs., 30c. 10 lbs., 50c. 25 lbs., \$1.00. 50-lb. sack, \$1.25. 100 lbs., \$2.00.

MICA QUARTZ GRIT (Poultry, Pigeon and Chick Sizes.)—Grit is as essential for poultry as food, as without it they cannot digest the food. Few localities furnish enough sharp grit to satisfy them, and if they have been reared on the land for several years all the suitable grit has been consumed. Poultry will starve to death with full crop for no other reason than they have no teeth with which to grind the food into proper consistency. Grit should be mixed with the food and fed in hoppers or boxes, about one part of grit to fifteen or twenty parts of food. 5 lbs., 15c. 100-lb. sacks, 75c.

PRATT'S POULTRY FOOD

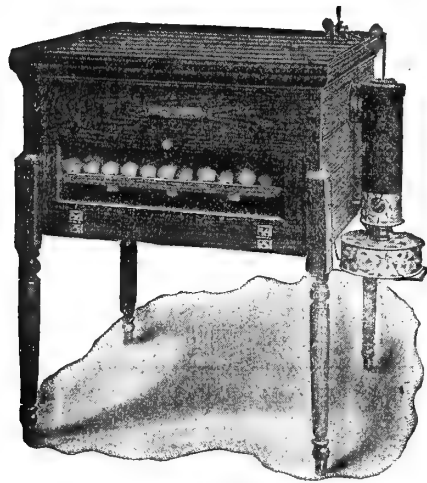
Will make hens lay all the year, and is excellent for feeding young chicks. For large fowls, mix one ounce with the food for 15 or 20 chicks, give one-half ounce every other day. 26-oz. pkg., 25c. 5-lb. pkg., 60c. 12-lb. bulk, \$1.25. 25-lb. bulk, \$2.50.

PRATT'S FOOD FOR HORSES

7 lbs., 50c. 12½ lbs., 75c. 25 lbs., \$1.50.

CANARY, PIGEON AND PARROT FOOD.—Canada Field Peas, peck, 50c.; bushel, \$1.80; Buckwheat, quart, 10c.; peck, 40c. Hemp Seed, 1 lb., 8c.; 4 lbs., 25c. Canary Seed, 10c. lb. Bird Rape, 8c. lb.

PRAIRIE STATE INCUBATORS FOR 1909.



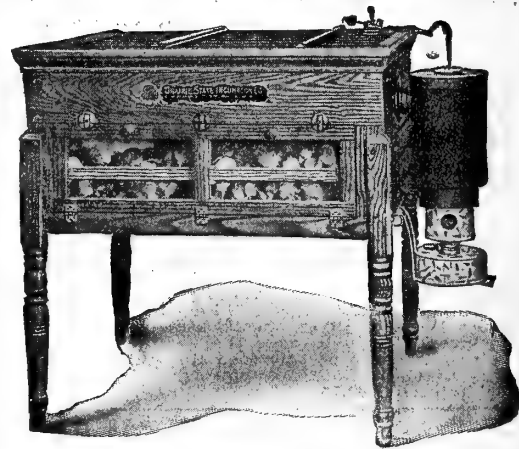
Junior No. 2. JUNIOR INCUBATOR.
No. 2—115 hen eggs capacity. 95 lbs. crated. \$15.00.

Did you ever notice the hen that steals her nest on the ground? That's natural incubation. And she usually hatches every egg, don't she? We've copied her. We use a wet sand tray, covering the entire bottom of the machine in close proximity to the eggs, thus furnishing the proper

To get a high per cent. of "livable" chicks is where the value comes in the Prairie State. Some incubators may bring out nearly as many chicks, but wait ten days or two weeks and then count your chicks. That's the test. It's the number of chicks that live that tells the story of efficiency, owing to the fact that it hatches as near like the old hen as human ingenuity can copy nature. Every chick hatched in a Prairie State Sand Tray Incubator is bubbling over with vitality the minute it pops out of the shell and you can rest assured it will thrive and grow rapidly.

All Prairie State Incubators are of the hot-air type, insuring long life and durability; no tanks to rust out or spring a leak in the middle of the hatch. The outside case, etc., is nicely finished in natural wood, unstained. The space between the inner and outer case is insulated with 2 1/4 inches of cotton batting, 3 inches on top. The heating system is a combination of radiant heat on the top of machine with the diffusive system of ventilation. In this respect our machine differs from all others upon the market. No diffusion screens, with their faulty distribution, are used.

amount of moisture and reducing the evaporation from the eggs to the same per cent. (9 to 11 per cent.) as under a hen. This insures chicks full of vitality—chicks that live—just like hen-hatched.



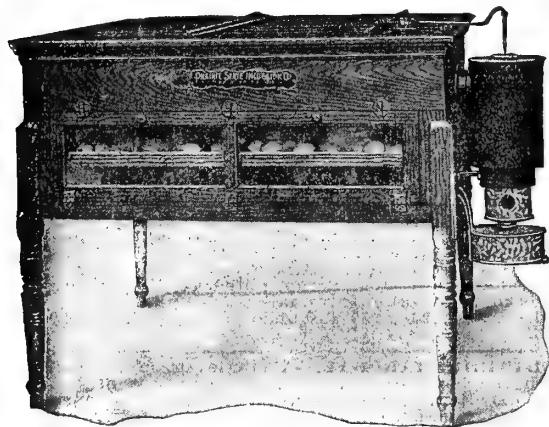
No. 2 Incubator.

PRAIRIE STATE INCUBATORS.

No. 0—100 hen eggs; 135 lbs. crated.....	\$18.00
No. 1—150 hen eggs; 160 lbs. crated.....	22.50
No. 2—240 hen eggs; 240 lbs. crated.....	32.00
No. 3—390 hen eggs; 275 lbs. crated.....	38.00

Prices include all attachments, such as egg tester, thermometer, lamp, tray for eggs and regulator. Guaranteed to be free from mechanical defect and to hatch in the most approved manner.

Complete Prairie State Catalogue Free on Request.



No. 3 Incubator.

PRAIRIE STATE TESTED THERMOMETERS.

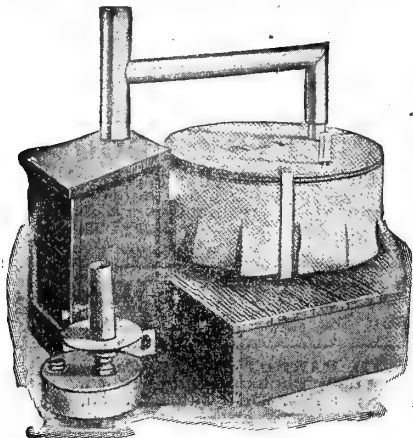
No. 1 Hang-up Thermometer, with hanger, 60c.; postpaid.....	\$.70
No. 2 Universal, with holder, 50c.; postpaid.....	.60
No. 3 Reclining or lay-down pattern, 65c.; postpaid.....	.75
No. 4 Stand-up, with holder, 60c.; postpaid.....	.65
No. 5 Incline, with holder, 60c.; postpaid.....	.70
No. 6 Brooder Thermometer, 50c.; postpaid.....	.55

EGG TESTER, Price, 35c.



Lamp No. 1.....	\$.60	Burners, No. 3.....	\$.50
Lamp No. 2.....	.65	Lamp Bowls, No. 1.....	.25
Lamp No. 3.....	.75	Lamp Bowls, No. 2.....	.35
Burners, No. 1.....	.25	Lamp Bowls, No. 3.....	.40
Burners, No. 2.....	.35	Chimneys.....	.15

Prairie State Universal Hover.



Universal Hover.

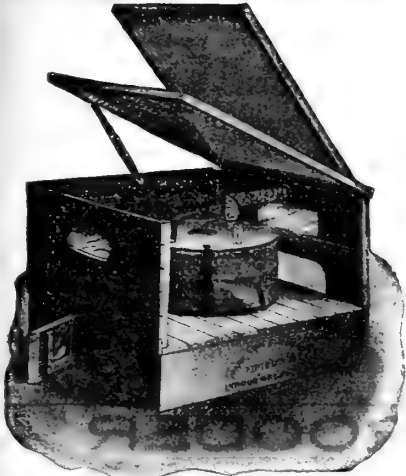
It may be attached to any form of outdoor brooder two feet or more in height, to any size or form of colony house, shed, coop, piano, dry goods or organ box. It also enables those who wish to build their own brooders to get the best brooding device possible in an economical manner. It fills that want, felt by everyone who raises poultry, for something they can use anywhere, any time, and do the work well.

The hover is twenty-two inches in diameter, the top of which is wood, lined with strawboard, a 4-inch rim extending downward, to which is attached six inches of felt curtains. The hover stands on three iron-feet, but is not stationary, and may be raised and moved instantly, if desired.

A thermometer is provided, which may be read from the outside without disturbing any part of the brooder. The lamp used is made of metal, using a No. 2 Sun Hinge Burner and a metallic chimney seven inches in length, thus assuring a steady, bright, clear flame; the lamp being on the outside of the brooder in view at all times. Surrounding the hot-air flue or chimney is a fresh-air pipe through which fresh air, slightly warmed, is injected into the upper part of the brooder. This diffuses downward and through the curtains, thus furnishing a perfect system of ventilation. At an additional cost of \$1 to the regular price a standard wafel regulator may be attached to the hover, by the use of which a uniform temperature can be maintained without close attention. It is not essential, but a great convenience during the cold, changeable weather, and greatly aids the operator in supplying the desired conditions for newly hatched chicks, relieving him of any cause of worry concerning the brood.

UNIVERSAL HOVER—Price for hover, with lamp case, smoke conductors, lamp and thermometer..... \$7.00
When used indoors alone lamp case is not required.
Hover and lamp, with smoke pipes..... 6.00
With regulator attached, \$1.00 extra.

PRAIRIE STATE BROODERS
No. 5 INDOOR BROODER

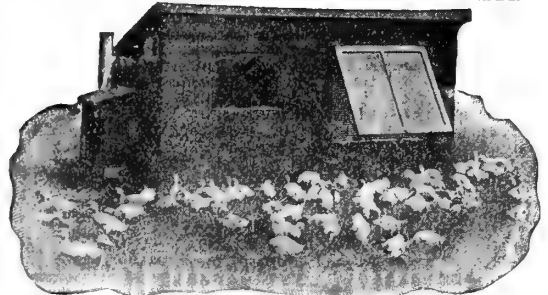


No. 5—(Indoor). Weight, crated, 100 lbs. \$12.00.

PRAIRIE STATE BROODER No. 5 is used as an individual indoor brooder in a continuous brooder house of any size, or it may be used during spring and summer in a large colony house, as it is portable. In the large brood house for winter rearing, it is used in connection with a hot-water heater and pipe system. The No. 5 Brooder consists essentially of a Universal Hover, mounted upon a platform eight inches high and thirty-six inches square. At one end of this platform is the lamp-case, which is closed by a door with a glass opening and mirror, so that the operator can see the flame at any time without stooping and make the adjustment from the outside without opening the lamp-case door. Upon this platform rests a removable case sixteen inches high, made of ½-inch tongued and grooved boards, the ends of which are fitted with glass openings covered with slides so as to secure direct ventilation when desired. The top of the case is covered with a hinge wire screen, and this in turn with a loose cotton-cloth screen that may be used wholly or in part, depending upon the outside temperature. The Universal Hover lifts out instantly for cleaning purposes or for the examination of the chicks. Provision is made for piping away the smoke from the hover, so that the air in the brood house is pure and sweet, no matter if several hundred brooders may be in operation in the brood room. This is the most practical indoor brooder that has been devised to date, and is used very extensively by progressive poultrymen, many of them having discarded their pipe systems and installed this system of brooding. This brooder is no longer made, but can be furnished on order.

THE COMBINATION COLONY BROODER, No. 1

This Brooder House is constructed of tongued and grooved boards. The brooder is full size in all dimensions, 3 feet wide, 6 feet long and 3 feet high in front and 2 feet in rear, with tin roof. The interior is divided by a movable partition into two compartments—the nursery room and the exercising room or sun parlor. The nursery is double walled, top and sides, with dead-air space and paper insulation between the board partitions, securing warmth and uniform temperature. A strong point in the nursery is the circular hover without obstructions of any kind, such as hot drums or domes, leaving every inch of inside space available for the chicks. It is open all around. No cold corners or hot spots to crowd into. A glass door in front, 22 inches wide, furnishes light and access to the chicks. A movable board under the door brings the opening level with the floor of nursery and permits easy cleaning of the apartment.

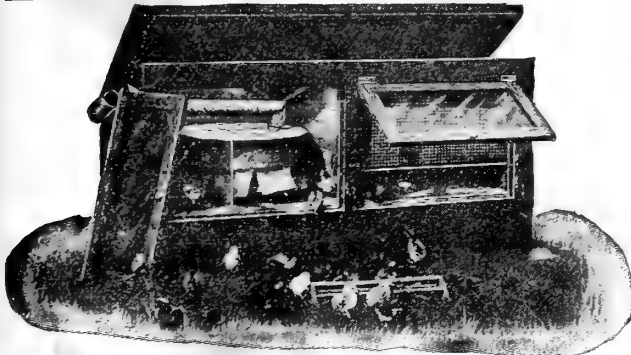


No. 1—Colony (Outdoor). Weight, crated, 300 lbs. \$20.00.

THE COMBINATION COLONY BROODER, No. 2

This Brooder is similar to the No. 1 in construction and is 60 inches long, 30 inches wide, 20 inches high in rear and 30 inches in front.

The interior is divided into two large compartments by a movable partition—the nursery room, and the sun parlor or exercising room; the floor throughout being on a level and 8 inches from the ground. Between the nursery and exercising room is an opening 18 inches wide, with a wooden door, hinged to open and close at will, so when desired the chicks may be confined in either apartment. With the wooden door opened, the space is covered with a heavy felt curtain, slitted for easy passage of the chicks back and forth. Two glass doors, 26x14 inches, furnish access to the chicks confined. A movable board below the glass door brings each opening level with the floor and permits easy cleaning of each apartment.



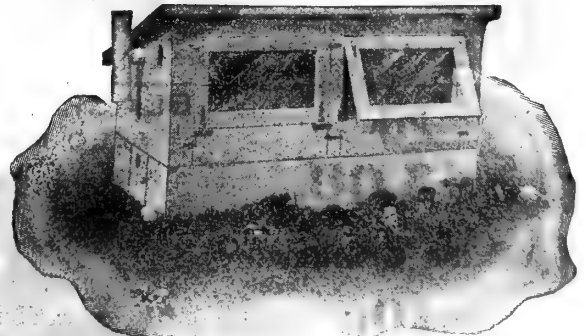
No. 2—Colony (Outdoor). Weight, crated, 208 lbs. \$16.00.

THE COMBINATION COLONY BROODER, No. 3

The sanitary condition of this brooder is perfect, all parts of the brooder being instantly accessible.

The hover is 20 inches in diameter, of the Universal type. It lifts out, and is provided with a thermometer, by means of which the temperature can be taken without opening the brooder.

The brooder is 27 inches wide, 48 inches long, 19 inches high in the rear and 28 inches high in the front. The lamp is placed in the same position as with the No. 2 Colony Brooder, and burns steadily under most stormy weather of wind or rain.



No. 3—(Outdoor). Weight, crated, 150 lbs. \$12.00.

Heat Regulator attached to any of the above Brooders, \$1.00 extra.



Charles A. Cyphers' Model Incubator.

MODEL INCUBATORS AND BROODERS

Manufactured by **Charles A. Cyphers**

In one short season the Model Incubator won first rank among practical poultrymen—men who are in the business for a livelihood, not only at home, but in foreign countries. That this should have been done in so short a time proves conclusively the superior merit of the Model Incubator. In the design and construction of the Model Incubator Mr. Cyphers drew from the experience gained by him in the past seven years, during which time he manufactured many thousands of machines, which have gone into many countries and been operated under every climatic condition. While we have not the space here to describe in detail the construction of the Model Incubator, we will state that in its construction the best ideas only are employed, and while Model Incubators may be a little higher in price than some other makes, still the purchaser can rest assured that when he buys the Model Incubator he gets good value for his money, and results obtained with the Model will soon convince the user that in incubators, more than in almost any other machine, the best is the cheapest. Two features which stand out prominently are the Improved Smokeproof Heater and the Regulator. The new Thermostat is designed with a view to the largest movement compatible with uniformity, and it excels anything of the kind ever before offered the public. Anyone interested in the purchase of an Incubator will do well to write to us for special catalogue, describing in detail the construction of the Model Machines. It is mailed free on application and will prove interesting to any poultryman.

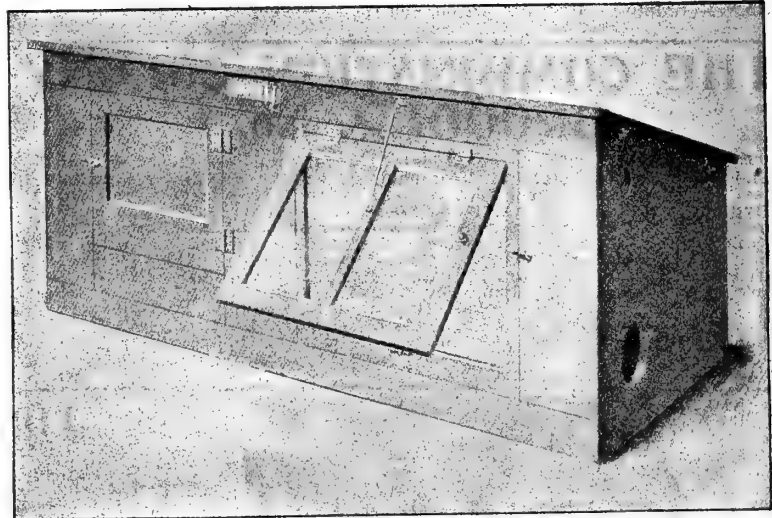
PRICES.

No. 0 Model Incubator holds 80 hen eggs or 48 duck eggs.....	\$16.00
No. 1 Model Incubator holds 150 hen eggs or 100 duck eggs.....	22.00
No. 2 Model Incubator holds 250 hen eggs or 190 duck eggs.....	31.00
No. 3 Model Incubator holds 360 hen eggs or 290 duck eggs.....	37.00

"MODEL COLONY" BROODER

An entirely new creation which won the most general approval ever given a brooder. The points of superiority that were particularly commended were its accessibility for cleaning without removing the chicks, the total absence of hot spots and draughts in the nursery and the light and cheerful wholesomeness of both the nursery and exercising compartments. The most satisfactory feature was the report from customers that they had successfully reared practically all the chicks placed in it.

Every precaution has been taken to make this brooder substantial and durable. The roof is covered with tin. It is well painted and presents an attractive appearance. Size 3x6 feet. Price, **\$15.00.**



Charles A. Cyphers' Model Colony Brooder.

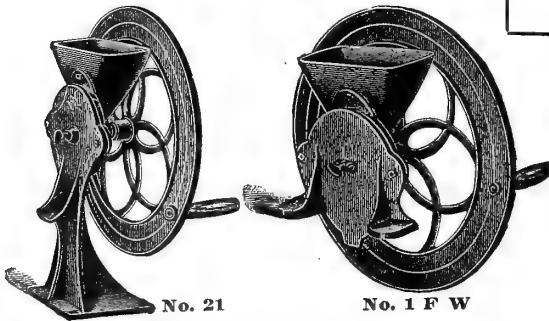
"THE MODEL" INDOOR BROODER

Made both single and double. The latter designed to take the place of sectional brooders and are very much more successful. The conditions both in the hover and in the nursery are perfectly normal, and the chicks thrive and grow.

PRICES.

Model Single Indoor Brooder, size 3x3 ft..	\$10.00
Model Double Indoor Brooder, size 3x6 ft..	15.00

Write for Special Catalogue.



Old Dominion Grinding Mills

Capacity from 1 to 2 bushels per hour, accordingly as the mill may be set for fine or coarse grinding. Note flat construction of balance wheel. May be adjusted for grinding meal for table use or only for cracking the grain.

No. 1 F W, Fly Wheel.....	\$2.75
No. 1 C, with crank only, less fly wheel.....	2.00
No. 21.....	3.50

Old Dominion Hand Corn Sheller

Style P.



See regulating thumb-screw to set sheller for either large or small ears. Shells clean. Shells Popcorn. Clamps with bolts and wrench with each machine. Chilled shaft and bearings. Weight, crated, 20 pounds.

Price.....**\$2.00**

BLACK HAWK FEED MILL. 17 LBS.



Grinds Corn, Wheat, Rye, Rice, Spices, Etc.

Makes Best Graham Flour and Meal for table use.

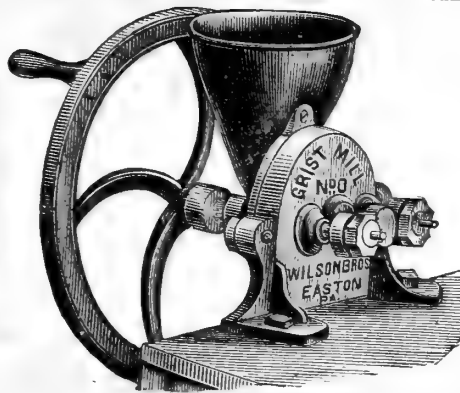
Easily set to grind as fine or as coarse as desired.

Just the thing for cracking corn, etc., for Poultry.

Price
\$3.00.

Extra Grinders
40c.
Pair.

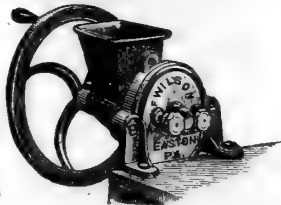
WILSON No. 0 Family Grist Mill



To Bolt to
Bench or
Table.

This mill is especially made for grinding Graham Flour or Cornmeal for table use. It can also be adjusted for cracking the grain if desired. Weight, 30 lbs.
List price, \$5.00. Special retail price, \$4.00. List price, with Iron Stand, \$7.00. Special retail price, \$6.00. Weight, 65 lbs.; diameter of hand wheel, 20 inches.

Wilson's Bone and Shell Mill



No. 1—Grinds oyster or clam shells and dried bones, and is an excellent mill and largely used. Will also grind corn.
Wgt., without stand, 33 lbs. \$4.00
Weight, with stand, 64 lbs. 6.00



Wilson's Crown Green Bone Mill

This machine is especially made for cutting green bone with meat on, right from the butcher, or offals of bone and meat from the table. Turns easy, fine and fast.
With stand, 80 pounds.....\$8.50
Without stand, 50 pounds..... 6.50

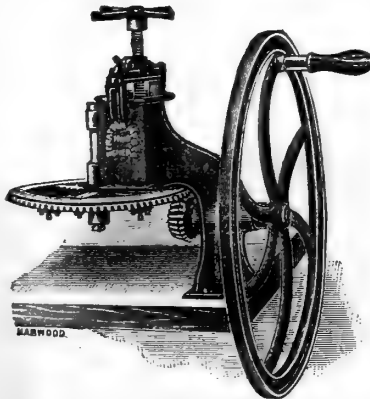
THE DANDY GREEN BONE CUTTER.

This is one of the simplest and best cutters made. Has automatic feed. The knives are made from the best tool steel and finely tempered. There is one plain and two corrugated knives. Can be changed to cut fine or coarse.

THE No. 0 DANDY. Suitable for a Flock of 60 to 75 Chickens.

No. 0, with long handle, weight 35 lbs., \$5.00.
No. 0, with balance wheel, weight 65 lbs., \$7.00.

No. 0, with heavy balance wheel and stand, with three hardened steel knives. Capacity, from 150 to 200 chicks; weight about 100 lbs.; hand or power, \$10.00.
No. 3, for hand or power. Capacity by hand power, per hour, 25 to 30 pounds. By power, capacity for 1,000 to 1,500 chickens..... 18.00

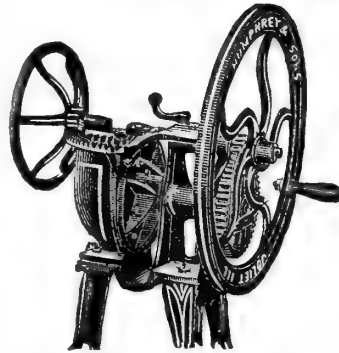


No. 0 Dandy, with Balance Wheel. Capacity by hand power, per hour, 25 to 30 pounds. By power, capacity for 1,000 to 1,500 chickens..... 18.00

GEARED DANDY CUTTERS.

The geared machines will cut faster, and having four knives will cut just as fine as the others.
No. 9—Weight, 100 lbs. Capacity, 100 to 150 fowls... \$12.00
No. 11—Weight, 130 lbs. Capacity, 200 to 250 fowls... 15.00
No. 12—With split nut. Weight, 130 lbs. Capacity, 200 to 250 fowls..... 17.00
No. 13—With balance wheel for hand..... 20.00
No. 13—With balance wheel and pulley for hand or power..... 22.00
No. 13—With tight and loose pulley for power..... 25.00
Weight of No. 13 machines, 180 lbs. Capacity by hand, 250 fowls; by power, 1,000 fowls.
Pulley for Nos. 11, 12 and 13, extra..... 1.50
Large Balance Wheel, Nos. 11, 12 and 13..... 3.00

HUMPHREY GREEN BONE AND VEGETABLE CUTTER



The knives of the Humphrey Cutter act upon the shear principle, producing granulated cutting, without question the best form in which to feed green bone.

Capacity.—The capacity of a bone cutter depends upon the strength and energy of the operator and the nature of the material to be cut. The No. 1 Humphrey is suitable for cutting all the animal food for flocks up to 300 fowls. No. 2 does not appear much larger than No. 1, but is made from a heavier set of patterns and is supplied with a pulley wheel to run by power. No. 2½ is the same machine as No. 2, with the addition of a hand wheel, making it both a hand and power machine.

No. 1, Hand Power. \$12.00 No. 2½, Hand and Power. \$15.00
No. 2, Semi-Power. 13.50 No. 6, Direct Power..... 22.00

MANN'S BONE CUTTER

1902 MODEL.

The feed is both automatic and self-governing. Cuts all gristle and meat. Nothing escapes uncut.

No. 5 C.—This machine is exactly the same as the No. 5 B, with a crank handle instead of a balance wheel. Capacity not quite equal to 5 B. Weight, 35 lbs. \$6.00

No. 5 B.—This machine is exactly the same as the No. 5 BM, except that it has not the iron stand. The capacity is the same. Weight, 60 lbs. \$8.00.

No. 5 BM.—Intended for flocks of 15 to 25 hens. Mounted on iron stand. Cylinder 6 inches diameter, 4 inches deep. Cutter plate has 4 knives instead of 3. \$10.40.

No. 7.—Intended for flocks of 40 to 100 hens. Mounted on strong iron stand with large table for box or pan to receive cut bone. Weight, 107 lbs. Cylinder 7¼ in. in diameter, 5½ in. deep. Capacity, ½ to 1 lb. per minute. \$12.00.

No. 11.—Intended for large flocks of over 100 fowls. Capacity 100 lbs. per hour. Horse-power required, 1 to 1½. Weight, 215 lbs. Diameter of pulley, 15 inches; 3½-inch face; speed of pulley, 300 to 350 revolutions per minute. Capacity, 100 lbs. and upward per hour. \$26.00.



No. 5 BM.

215 lbs. Diameter of pulley, 15 inches; 3½-inch face; speed of pulley, 300 to 350 revolutions per minute. Capacity, 100 lbs. and upward per hour. \$26.00.

"NEW MODEL" CLOVER CUTTER

FOR POULTRY

Designed for cutting, either green or dry, such growths as clover, alfalfa, vegetable tops, etc., into ¼-inch lengths. These growths are the cheapest and most productive egg-forming poultry foods for cold weather. Made only of iron and steel; strong feeder; large capacity. Length over all, 28½ inches.

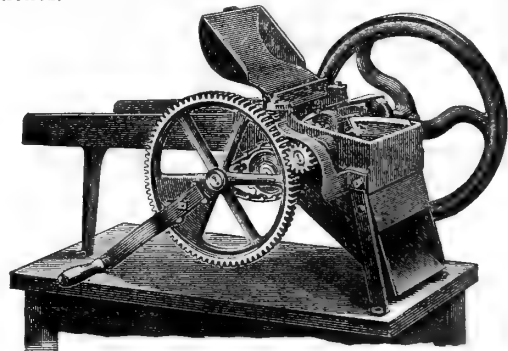
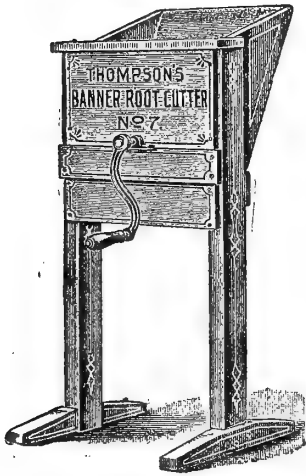


Fig. 770.

Removable Steel Knives, Adjustable Cutter Bar, Runs Easy, Cuts Fine, Is Durable.

With four 7-in. knives; weight K. D. 60 lbs.....\$7.50
Extended shaft, and pulley for power, extra..... 2.00

Thompson, Jr., No. 7 Iron Poultry Troughs Root Cutter



No. 7.

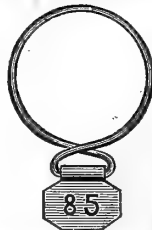
This Cutter is adapted especially for poultrymen and farmers or for suburban residents keeping a couple of cows. Cuts roots and vegetables into fine chicken feed. Capacity, one bushel in about five minutes. Weight, 50 pounds. Price, \$5.00.



Same shape as Hog Troughs. This is an indispensable article for parties raising poultry. Is readily cleaned, and no leaking.

- No. 0—8 in. long, 3 1/4 in. wide at top, 1 1/4 in. deep, 1/2 pint..... \$.25
- No. 1—20 in. long, 4 in. wide at top, 1 1/2 in. deep, 1 pint..... .50
- No. 2—24 in. long, 7 in. wide at top, 3 in. deep, 2 1/2 quarts..... 1.00
- No. 3—29 in. long, 7 in. wide at top, 3 in. deep, 3 1/2 quarts..... 1.25

Climax Leg Bands



Made of spring brass, and so made that the tag acts as a clasp, holding them securely in place. Price, per doz., 20c. Per 50, 60c. Per 100, \$1.00.

DAVIS FOOD AND WATER FOUNTAIN

The only fountain on the market which can be satisfactorily used for either water or grain, grit, oyster shells, etc.

The only fountain which is adapted to hold any ordinary glass bottle or can as a water retainer. It is hung up and cannot get tipped over or filled with dirt, as do fountains arranged to be set on the floor, and chicks can't get drowned in it.

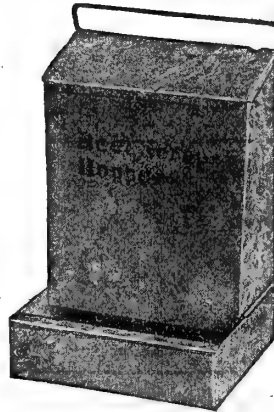
Can be emptied and refilled in an instant without removing bottle or can from the holder. Merely invert and slip mouth of bottle or can to one side, fill, replace, and turn fountain to upright position again.

Price, 25c. We do not furnish the bottle.



BEEF SCRAP HOPPER

This hopper is made of heavy galvanized iron, with lid, handle, sloping bottom and extra deep apron with guard. Taper is from the top down, being larger at the bottom. It will feed beef scrap and dry mash, articles that every user of hoppers knows are difficult to feed. This hopper is a sure and safe feeder, and will not clog. All joints riveted or seamed. Capacity, 10 pounds scrap. Price, each, 75c.



LICE KILLER AND NEST EGG.

Combined in One.

Lasting, effective. Not expensive.

Does not affect the flavor of the egg nor injure it for hatching.

60c. dozen.

Nesco Galvanized Drinking Fountains

1 Quart, 25c. Dozen, \$2.50. 2 Quarts, 30c. Dozen, \$3.00. 4 Quarts, 50c. Dozen, \$5.00. 8 Quarts, 75c. Dozen, \$7.50.

BALTIMORE FOUNTAINS.

Earthenware.—1 Quart, 25c. Dozen, \$2.50. 2 Quarts, 35c. Dozen, \$3.50. 4 Quarts, 45c. Dozen, \$4.50.

PORCELAIN NEST EGGS.

The best and cleanest nest egg used. Each, 5c. Dozen, 25c. By mail, 50c.

WIRE HEN NESTS.

Each, 15c. Per dozen, \$1.50



CAPONIZING TOOLS.



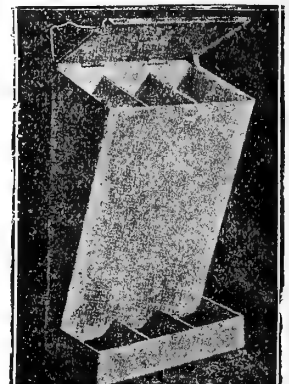
You can do your own caponizing easily. Book with full instructions sent free with each set of instruments. Price, with instructions, \$2.75. Farmers' Caponizing Tools, \$3.00 each.

French Poultry Killing Knife



Expeditious and humane way of killing and dressing poultry. Price, with instructions, each, 50c.

GALVANIZED IRON GRIT AND SHELL BOXES.



Price, small size, 3 compartments, 50c. each.

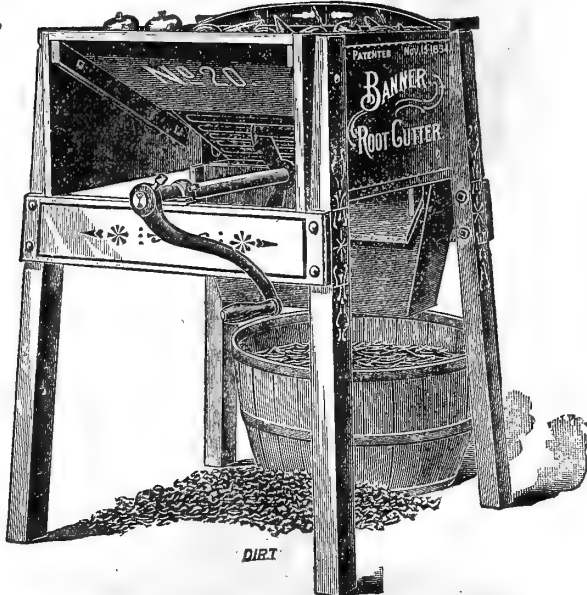
POULTRY MARKERS.



For marking young and old chickens. Made in two sizes, for large or small chicks. Sent by mail on receipt of price, 25c.

METZ'S GAPE WORM EXTRACTOR.

The latest improved method of extracting the Gape Worm. Humane and Sure. Directions accompany each instrument. 25c. each.



THE BANNER ROOT CUTTER

Built in Two Sizes for Both Hand and Power.

Simple in construction. Easy to operate. Has a self-feeder. Separates dirt from cut feed. Cuts with a clean cut. Does not crush, grind or tear the feed.

THE No. 20—FOR HAND USE.

Has a capacity of 30 to 50 bushels per hour. Weight, 120 lbs. Retail price, \$9.00. Special Discount for Cash.

We have on market Crank Cutter, built with balance wheel, same to be of large capacity, on which we can make very low prices.

THE No. 16—SMALL POWER CUTTER.

With Fly Wheel and Band Wheel.

Supplied with crank also for hand use. Capacity by hand, 30 to 50 bushels per hour. Weight, 150 lbs. Capacity by power, 2 to 3 bushels per minute. Our retail price, \$13.50. Special Discount for Cash.

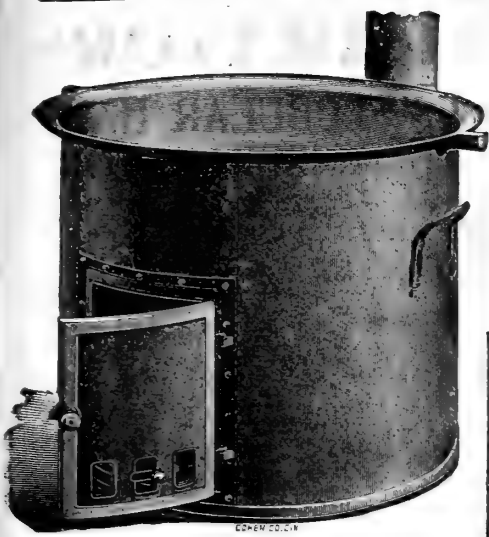
PHILADELPHIA GAPE EXTRACTORS, 25c. EACH.

G. & T. BOILER AND FEED COOKER

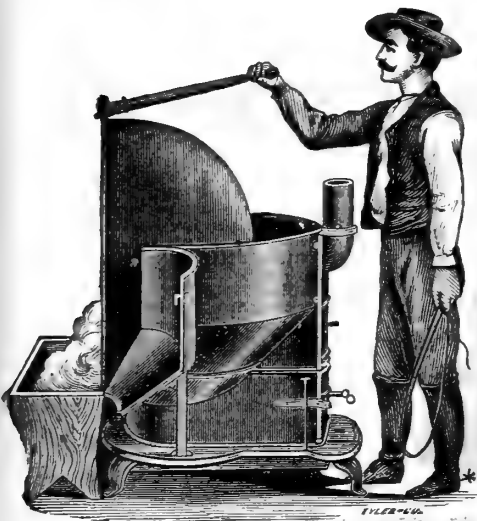
Heavy cold rolled steel furnace; extra large feed door; wrought iron handles, firmly riveted on. Kettles smooth, heavy cast iron. Door, frame and flue collar cast iron. Never buckles or warps from heat; designed to set on ground or brick foundation; especially adapted for cooking feed, rendering lard, making soap, scalding hogs, poultry, etc. Cast iron flues are constructed inside this, retaining heat and economizing fuel. We always ship furnace for wood fuel unless otherwise specified. Also used for lime, sulphur and salt.

Actual Capacity	Diameter of Furnace	Shipping Weight	List Price with Kettle	Ret'l Price with Kettle	List Price only	Ret'l Price only
30 gallons.	26 inches.	150 pounds.	\$13.00	\$10.40	\$7.00	\$4.90
33 gallons.	28 1/2 inches.	175 pounds.	14.00	11.20	8.00	5.60
48 gallons.	31 1/2 inches.	200 pounds.	16.50	13.20	12.00	8.40
53 gallons.	32 inches.	225 pounds.	18.00	14.40	13.00	9.10
75 gallons.	36 inches.	275 pounds.	24.00	19.20	18.00	12.60

Furnace with Fire Pot for Coal, add to list—List Price, \$5.00. Retail price, \$4.00. You will notice that our kettles are rated at exact capacity.



The Profit Farm Boiler



Showing Dumping Process.

No apparatus has ever been made that is at once so practical and perfect a feed cooker for stock, and as useful for other purposes about the farm and stables; also for cooking lime and sulphur for spraying. The most ignorant farm hand can operate it perfectly without risk to life or property.

It is a simple furnace, with a caldron which dumps, as shown by the cut. The contents can be emptied in one minute, doing away with the slow and disagreeable task of dipping it out. It is thoroughly constructed of the best cast iron. The kettle is cast very smooth and has an extra thick bottom.

PRICE LIST.

No. 25, 25 gallons, for coal.....	\$23.00
No. 250, 25 gallons, for wood.....	23.00
No. 48, 48 gallons, for coal.....	34.00
No. 480, 48 gallons, for wood.....	34.00
No. 53, 53 gallons, for coal.....	38.00
No. 530, 53 gallons, for wood.....	38.00
No. 75, 75 gallons, for coal.....	46.00
No. 750, 75 gallons, for wood.....	46.00
Coal Fixtures for any size of Wood Boilers	4.00

No Wood Fixtures for Coal Boilers.

Do not carry them in stock, but ship direct from factory.

BOILER OR STEAM FEED COOKER

SIZES AND PRICES

No. 1—19-in. shell; height over all, 54 in.; 9 flues; 325 lbs. \$35.00.

No. 2—19-in. shell; height over all, 58 in.; 13 flues; 370 lbs. \$40.00.

Price includes two gauge cocks, blow-off cock, pump, safety valve, 2 ft. 6 in. of suction hose, 3 ft. steam pipe, with valve to convey steam to barrel or vat.

Steam Gauge, extra, \$2.50.

Water Glass, extra, \$2.00.

Special Price for Cash.



Baltimore Electric Feed Cooker

Furnace door frame, hearth and grates are of best cast iron; lining and sides of sheet steel plates; boiler is made of galvanized steel; will not rust; can also be used for scalding hogs. No. 1, 25 gallons, \$9.00. No. 2, 40 gallons, \$11.00. No. 3, 50 gallons, \$13.00.

COOK STOVE FRUIT DRIER

It is a little gold mine. No labor you can perform for cash returns pays as well as that of converting wasted fruits into evaporated stock. These products are among the highest priced luxuries in food products. Evaporated peaches, cherries and raspberries, 20 to 25 cents per pound; apples, pears, blackberries, etc., 10 to 15 cents; all salable, or may be exchanged with your grocer for anything he sells. Recall the Waste of Fresh Fruits on the farm or town lot for Seasons Past. Price, \$5.00.

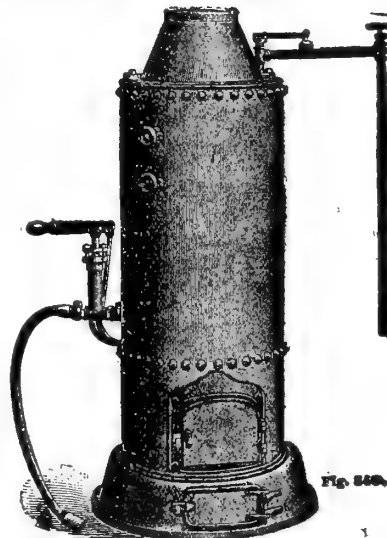
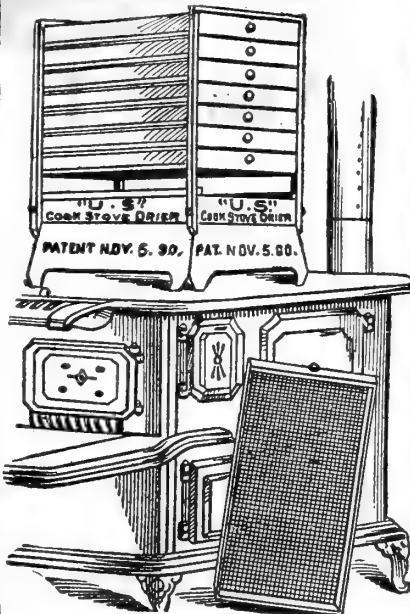
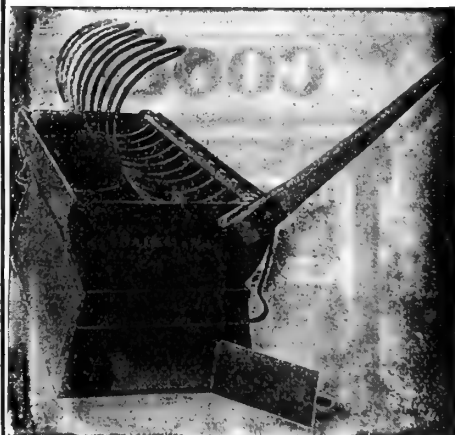


Fig. 240.

Steel boiler with lap-welded flues, well riveted and caked, capable of standing 150 lbs. hydraulic pressure, and carrying steam pressure of 100 lbs. to the square inch. Fire-box provided with grates adapted to burning all kinds of fuel; will cook or steam feed placed in a barrel or vat, with but little care and without danger of burning.

Steel Hog Scalding and Feed Cooker



Plain Scalding, with legs, 30x18 in. x 6 ft. List, \$16.00. Retail, \$14.00. Fire-box, as shown, List, \$13.00. Retail, \$11.75. Dumping with Lever. Rack, List, \$13.00. Retail, \$11.75. Table can be built out of wood on the place.

Plain Scalding does very well if placed over a ditch and fire built underneath, but large dealers prefer Rack and Fire-box complete. Shipping weight, 425 pounds.

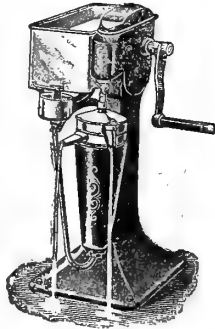
SHARPLES' CREAM SEPARATORS

SIT DOWN TUBULAR

The most convenient, practical and efficient small capacity separator ever built. Designed for the use of those having only one or two cows. Carefully made from selected materials and built exactly like the larger machines. It stands 20 inches high—can be operated at full speed and capacity by a child—runs very smoothly—skims to perfection, being as perfect in action as our larger machines.

- Price.
 No. 1, Capacity 175 lbs. per hour.. \$40.00
 No. 2, Capacity 275 lbs. per hour.. 55.00
 No. 3, Capacity 350 lbs. per hour.. 65.00

These three sizes are readily turned by one who is seated. They stand only 2 feet 9 1/2 inches high; the supply can is still lower.

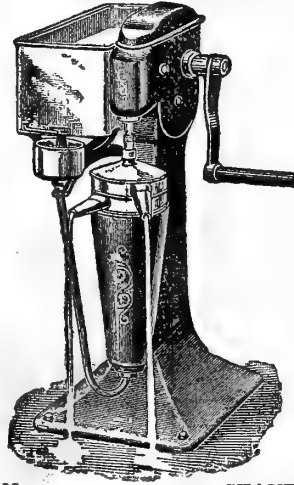


SHARPLES' TUBULAR HAND SEPARATOR

Suspended Bowl, Bottom Feed, Low-Down Supply Can, Easy Running, No Discs.

The bowl of the 650-lb. machine is only 2 1/2 inches in diameter and weighs less than 7 lbs., including every revolving part, and requires even less power to run it at its full capacity than any 330-lb. per hour hand machine in existence.

All the objectionable features of discs, cones, cylinders and other devices introduced in the bowl to facilitate separation, together with their attendant expense and maintenance, and the great amount of time and work required to clean and keep in perfect working order are done away with in the tubular bowl, and by reason of its small size and light weight the power necessary to run it to its fullest capacity is reduced to a minimum. **No Discs, please remember.**



- STAND UP SIZES.**
 No. 4, Capacity 450 lbs. per hour..... \$ 75.00
 6, Capacity 650 lbs. per hour..... 90.00
 9, Capacity 900 lbs. per hour..... 125.00

Pulley Power Attachment, \$2.50 Additional.
 These three sizes stand only 3 ft. 6 in. high. The supply can is still lower.

Steam Turbine Tubular Dairy Separator

DRIVEN DIRECT FROM THE BOILER. MADE IN THREE SIZES.

- Capacity. Price.
 No. 5, 500 pounds per hour..... \$100
 7, 700 pounds per hour..... \$125
 10, 1,000 pounds per hour..... \$150
 Either size, with Little Giant Boiler, \$50 extra.

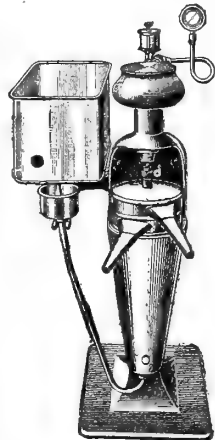
SEPARATOR OIL.

Gallon Can, 75c. 5-Gallon Can, \$2.50. Just a jet of steam, not much larger than would go through a straw, drives it to full speed.

An Armload of Wood or a bucket of coal will furnish the needed fuel for the smaller machines for an hour's run. After being properly started no other attention is needed than the supplying of sufficient milk.

The bowl when apart has a wide-open mouth, and not much more trouble to clean than a tin cup would be. In cleaning there is no danger of displacing small complicated parts, for it has no such parts.

This machine stands 36 inches high—requires very little steam—is the most efficient power separator for dairy use.

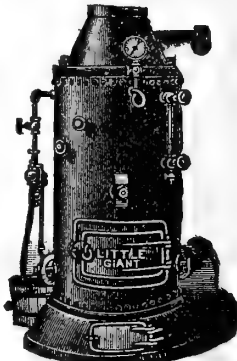


SEPARATOR BOILER

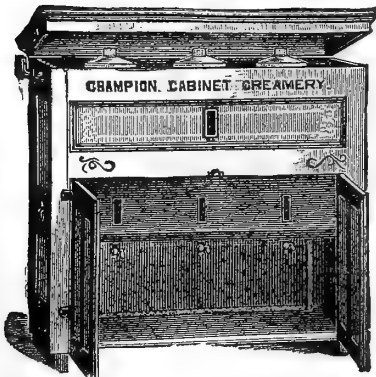
Expressly for use with our Tubular Steam Turbine Separators, although any small boiler or feed cooker will answer the purpose, as they require no more steam than will go through a good-sized straw.

The first cost of a Steam Turbine machine and Little Giant Boiler is a little more than the first cost of a corresponding capacity hand separator. Taking into consideration the fact that the former can be conveniently operated for a longer time and larger dairy, and also that the boiler is worth its full cost for furnishing hot water and steam for the many uses about a farm, will commend the same to your careful consideration.

These boilers are carefully trimmed and provided with an injector. Price, complete.....\$50.00



COOLEY CABINET CREAMER



All tanks are built refrigerator style, with paper between the sheet iron and the wood. In addition, it has a compartment or chamber underneath the water tank, through which the milk and afterward the cream are drawn.

The transparent pane in front enables the operator to see the cream line. The cream line is not broken up in withdrawing the milk, which avoids all commotion or whirlpool when the milk is running out. A perfect separation is made. The cans are easily removed from the tank when desirable or necessary. They are easily washed without removing. The water tank has inlet and overflow pipes for running water.

DAIRY CLASS.

No.	Cans.	Cows.	Weight.	Price.
0	1	1 to 3	185 lbs.	\$20.00
00	2	4 to 6	203 lbs.	27.00
1	3	6 to 9	256 lbs.	33.00
2	4	9 to 12	313 lbs.	40.00
3	6	12 to 18	390 lbs.	52.00
4	8	18 to 24	428 lbs.	64.00

Cans are known in the market as 5-gallon cans, but hold 19 quarts.

FAMILY CLASS.

No.	Cans.	Cows.	Weight.	Price.
A	2	1 to 3	183 lbs.	\$20.00
B	3	3 to 4	216 lbs.	26.00
C	4	4 to 6	268 lbs.	32.00

Special Refrigerators in any size. Cabinet Creamer, extra.....\$5.00

Partitions in Cabinet Creamers, extra..... 1.00

Faucet in outlet end instead of overflow..... 1.00

Faucet outlet in addition to overflow, extra..... 1.50

Stopper for closing openings when cans are removed, with nut and rubber packing..... .30

No. 4 and larger have two rows of cans and doors in each side, or in one row if so ordered. Prices of Creamers with tin-coated copper lining or copper cans given on application.

All sizes of Creamers have inlet and overflow pipes.

All sizes and styles of Creamers have thermometers in front side, which give the temperature without raising the cover. All thermometers are at purchaser's risk of breakage.

The New Sanitary Cream Separator



Inside of bottom aluminized to prevent rusting.

1. Milk and water are not mixed.
2. You can draw pure, sweet, undiluted milk for household use any time without disturbing the cream. The skim-milk makes excellent feed for stock.
3. It is a most convenient and labor-saving apparatus for the farmer and dairyman. Saves all lifting, skimming and handling of crocks and pans.
4. Milk vessel is easily and quickly removable without unscrewing the faucet.
5. The faucet is large and short in the neck and drilled out smooth on the inside. Will draw off cream and milk rapidly without clogging.

STYLE A.

No.	List Price	Ret'l Price
2½ With 2½-gal. tin milk vessel.....	5.00	\$ 4.00
4 With 4-gal. tin milk vessel.....	6.00	4.80
6 With 6-gal. tin milk vessel.....	7.00	5.60
8 With 8-gal. tin milk vessel.....	8.00	6.40

A very convenient style where larger milk capacity is required. It is made with ample space between the milk vessels to insert a cream can, butter box or cake of ice. It is identical with Style D, except that the cream can is not included.



STYLE B.

No.	List Price	Ret'l Price
8 With two 4-gal. tin milk vessels.....	\$11.00	\$ 8.80
12 With two 6-gal. tin milk vessels.....	12.00	9.60
16 With two 8-gal. tin milk vessels.....	13.50	10.80



STYLE D.

No.	List Price	Ret'l Price
8D With two 4-gal. tin milk vessels and 4-gal. cream can.....	\$12.00	\$ 9.60
12D With two 6-gal. tin milk vessels and 4-gal. cream can.....	13.00	10.40

ASEPTIC MILKING TUBES.

For Cows with Sore Teats.

Insert one in the teat and the milk will flow. Each, 25c.

The "DOTY" Ventilating and Aerating Cream Separator



For the benefit of persons who do not object to mixing water and milk for the purpose of facilitating the separation of cream, we offer the Doty Single-Compartment Separator. Has reversible cover and anti-whirlpool bottom and approved method of aerating the milk.

No.	Diam.	Height.	Cap'y, Gals.	Cows.
1..	12 in.	25 in.	10	2 to 3
2..	14 in.	27 in.	15	3 to 4
3..	17 in.	27 in.	22	4 to 7
4..	19 in.	27 in.	29	7 to 10

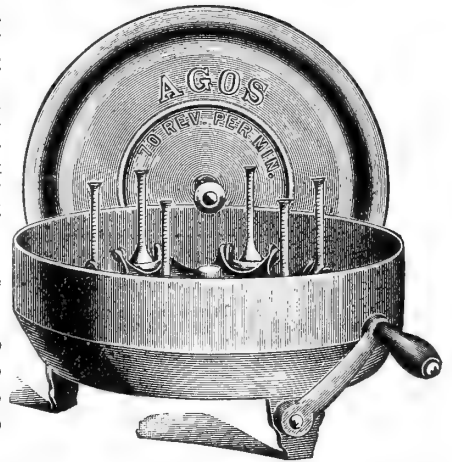
PRICES:

No.	List Price.	Retail Price.
1.....	\$5.00.....	\$4.00
2.....	6.00.....	4.80
3.....	7.00.....	5.60
4.....	8.00.....	6.40

The "AGOS" Cast-Iron Frame Hand Babcock Tester

The "Agos" Tester uses the ordinary Babcock bottle, the "B. & W." or the "Ohlson" patent. With each Tester is furnished the following outfit: Full set of regular Babcock milk bottles, pipette, acid measure, acid sufficient for making 50 to 100 tests, and directions for manipulating. They are made in five sizes, as follows:

4 Bottles....	\$8.00
6 Bottles....	9.00
8 Bottles....	10.00
10 Bottles....	12.00
12 Bottles....	14.00

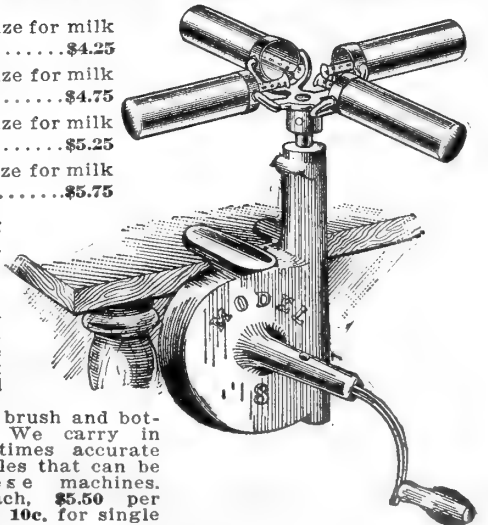


The Babcock Tester

No. 4-2 Bottle size for milk only.....	\$4.25
No. 5-2 Bottle size for milk and cream.....	\$4.75
No. 6-4 Bottle size for milk only.....	\$5.25
No. 7-4 Bottle size for milk and cream.....	\$5.75

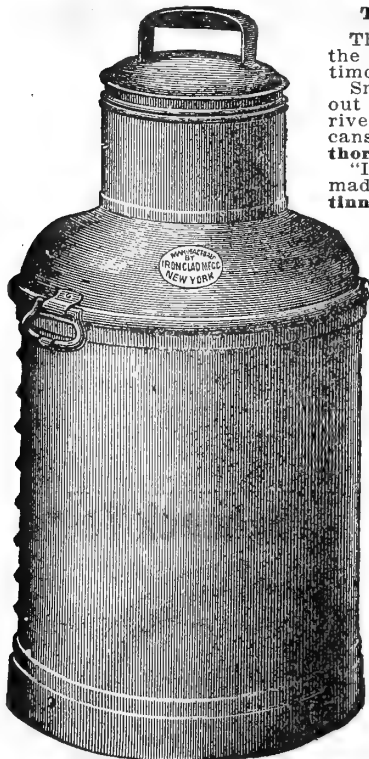
Shipping weight about 17 pounds.

All Testers are equipped with full set of glassware for testing milk or milk and cream; also furnished with brush and bottle of acid. We carry in stock at all times accurate skim-milk bottles that can be used in these machines. Price, 50c. each, \$5.50 per dozen; postage, 10c. for single bottle.



Write for Special Prices on Dairy Supplies of Any Kind

"IRON CLAD" MILK CANS



BALTIMORE PATTERN.

The Baltimore Pattern.

This cut illustrates it. It is the standard "Iron Clad" Baltimore Pattern Milk Can.

Smooth inside surface, without crevices or protruding rivet heads, which enables cans to be easily, quickly and thoroughly cleaned.

"Iron Clad" Milk Cans are made of steel and heavily tinned by the hand-dipping process AFTER they are formed.

Look for the Trade-Mark "Iron Clad" stamped in each and every can. No other tinplate cans bear this trade-mark.

We also carry a cheaper can, known as the

BALTIMORE CREAMERY CAN,

in order to meet the demand for a lower priced article.

They are well made, but not so heavily tinned.

Our charge for marking name on can will be 25 cents each.

THE BALTIMORE PATTERN.

20-quart	\$2.50
30-quart	2.75
40-quart	3.25

Special Prices in Quantities.

BALTIMORE CREAMERY CAN.

20-quart	\$2.00
Marking names on all cans.....	.25



IOWA.

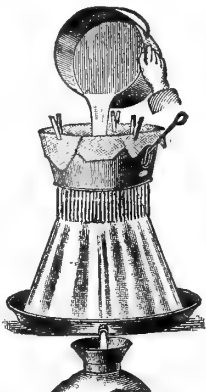
Iowa Creamery Can

Marking names on all cans, 25c. each. SPECIAL PRICES IN QUANTITIES.

20-quart.....	\$2.00
32-quart.....	2.25
40-quart.....	2.50

Champion Automatic Milk Cooler-Aerator

TO OPERATE.—Set as low as possible where there is plenty of pure, fresh air; if the wind blows, the better. It can be used in the strongest wind without a drop being blown away. Use very cold water. Use a cloth or metal strainer over the top of milk receiver.



No.	Capacity of Milk Receiver.	Size of Dairy.	Takes Care of	List Price.	Retail Price.
1.....	10 quarts	1 to 10 cows	2 milkers	\$7.00	\$5.00
2.....	18 quarts	10 to 25 cows	3 milkers	7.00	5.00
3.....	34 quarts	25 to 50 cows	5 milkers	8.00	5.75
4.....	52 quarts	50 to 100 cows	8 milkers	10.00	7.00

Extra sizes on special orders. Prices include double cheesecloth strainer and spring pins. STRAINERS.—Strainers of the finest mesh wire cloth (100 meshes to the inch) furnished at following prices: Nos. 1 and 2, \$1. No. 3, \$1.25. No. 4, \$1.50.

Trapp's Patent Cow-Tail Holder

If you wish to make it pleasant in milking, you should use Trapp's Patent Cow-Tail Holder. Does not irritate or make a cow kick. Easily and quickly operated. Holds the tail firmly. Retail price.....15c. Two for.....25c.

The Chapman Patent Changeable Strainer

Model No. 2—With Cheesecloth Attached. For the use of small dairies or for household purposes, for which a medium-sized strainer is used, such as fruit, paint, vinegar, lard, etc.

Model No. 3—With Cheesecloth Attachment. Especially adapted to the use of large top straight cans. The shape of No. 3 is such that it can be used on any sized can, either small or large top.



Model No. 2, \$1.00.
Model No. 3, \$1.50.

The underlying principle of the Calf Feeder is: The calf by sucking its milk takes it slowly and mixes the saliva of the mouth with the milk, which makes it spongy instead of a solid, indigestible lump formed when the milk is gulped down from a bucket. This is the greatest cause of scours. We have both a single and double feeder. One calf can use the double feeder, as each part works independently of the other.

COMMON SENSE Calf Feeder

Gold Medal Pan-American Exp. The only feeder adopted by Experiment Stations. Easiest to operate and clean. No valves to get clogged or foul.

Satisfaction guaranteed. Prevents Scours. Weans perfectly. Calves take to it like a baby to the bottle. It's Nature's Own Way. Extra gain on one calf pays for two feeders. Durable, Simple, Economical, Scientific and Practical. Nipples are reinforced without seams.

Over 100,000 In Use. More than all others combined.

Single Calf Feeder (2 Nipples).....	\$2.00
Double or Twin Feeders.....	3.00
Calf Nipples and Long Tubing, each.....	.25

Shaw's Calf Weaners

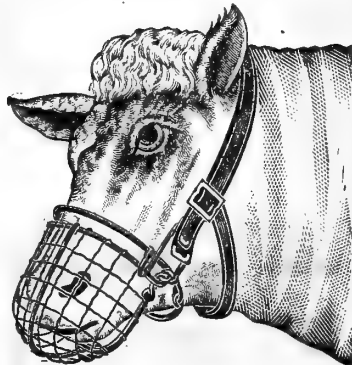
This weaner is not only scientifically constructed, but it is also thoroughly practical.

It has no barbarous spikes, no straps or halter to break or rot off.

A bow made of finest Premier Steel Spring wire is clamped into the animal's nose, the stop resting on the bridge of the nose.

This clamp has no action whatever in the nose, hence it will stay on and not make the nose sore. The action is entirely in the basket, it being hinged to the ends of the nose piece.

Price: No. 1, 50c.; No. 2, 75c. No. 3, \$1.25.



RICE'S CALF WEANERS

Also Prevents Cows from Sucking Themselves.

No. 1, for Calves, Retail price, 25c. List price, per dozen.....\$3.50

No. 2, for Heifers, Retail price, 40c. List price, per dozen.....6.00

No. 3, for Cows, Retail price, 60c. List price, per dozen.....8.50

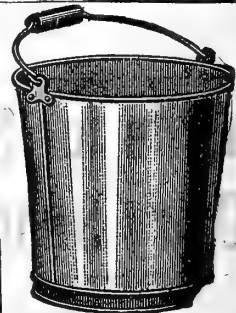
Milk Pail

Made of Best Tin.

No. 110—10 quarts.....	\$.40
No. 112—12 quarts.....	.45
No. 510—10 quarts.....	.50
No. 512—12 quarts.....	.55
No. 514—14 quarts.....	.60

POLISHED MAPLE BOWLS.

Bowls, 15 inches.....	.35c.
Bowls, 17 inches.....	.55c.
Bowls, 19 inches.....	.75c.

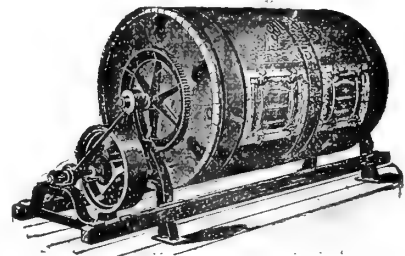


THE SQUEEZER COMBINED CHURN AND BUTTER WORKER

The idea in this machine is to follow the old method of squeezing butter with a paddle in preference to grinding between rolls, as other butter workers do at present.

One portion of the butter is taken up by a paddle and squeezed against side of churn and another portion by another paddle, and so on. At no point is the butter ground or allowed to stick, thus avoiding marbling.

Can be changed from churn to worker or the reverse by action of one lever, and can be done going at full speed.



DAIRY SIZES.

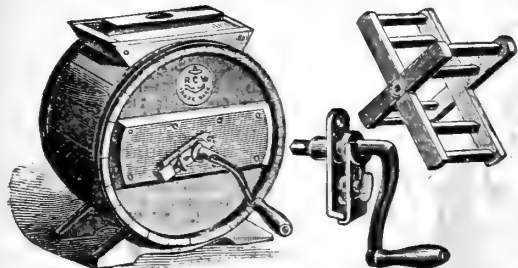
Size	Full Cap'y	Will Churn	Will Work	Ship'g Weight	Retail Price
No.	Gal.	Gal.	Lbs.	Lbs.	
0	50	35	70	735	\$ 95 00
1	100	75	150	807	125.00
2	150	115	230	870	185.00

CREAMERY OR FACTORY SIZES.

Size	Full Cap'y	Will Churn	Will Work	Ship'g Weight	Retail Price
No.	Gal.	Gal.	Lbs.	Lbs.	
3	300	225	450	1340	\$155.00
4	400	300	600	1475	175.00
5	500	375	750	1670	195.00
6	600	450	900	1930	220.00
7	700	500	1000	2105	255.00

Arranged for two speeds when wanted. One speed for working and churning.

Special Discount for Cash.



Improved Cedar Cylinder Churns

There are a number of Cylinder Churns on the market sold at a lower price, but they are made of pine or other inferior wood, while these are all of selected cedar, free of knots.

No.	Capacity	Price
1	2 1/4 gallons	\$2.50
2	4 gallons	3.00
3	7 gallons	3.50
4	10 1/2 gallons	4.00

BALTIMORE FAVORITE CHURN.



Patented July 5, 1891.

It is made of thoroughly seasoned material. It is finished smooth inside as well as outside. The iron ring head is strong and not liable to break. The balls are fastened to the iron ring, where they need to be fastened.

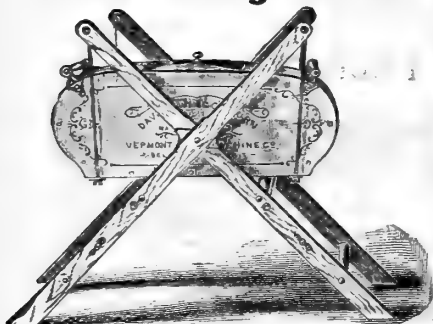
We furnish pulleys for power. Prices extra, according to size desired. Directions for using in each Churn.

Write for special discount for cash.

No.	Capacity	To Churn	Price	List Price
0	6 gallons	3 gallons	\$8.00	\$5.00
1	10	5	9.00	5.50
2	15	7	10.00	6.00
3	20	10	11.00	6.75
4	25	12	14.00	8.50
5	35	17	16.00	10.00
6	60	30	26.00	16.00
7	75	37	30.00	18.50
8	90	45	35.00	21.00

10-inch Single Pulleys for above, List, \$3.25. Retail, \$2.00.

Davis Swing Churn.



EASY TO KEEP CLEAN.

The round ends of the Churn cause the cream as it strikes against them to slide up and over, turning a complete somersault. The butter comes in beautiful granules in the most desirable form for washing in cold water or brine.

Each Churn has a glass indicator in the cover. The lid is ventilated and there is no slopping or dripping of cream. Easy to operate.

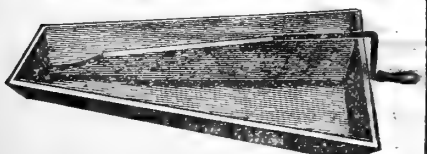
No.	Will churn	Capcy.	Lbs.	Price.
1	4 gals. or less	8 gals.	55	\$8.00
2	5	10	59	9.00
3	8	16	73	10.00
4	10	20	85	12.00
5	13	26	98	15.00
6	17	34	112	18.00

Additional for Pulley, 12x3, with attachments, \$4.00.

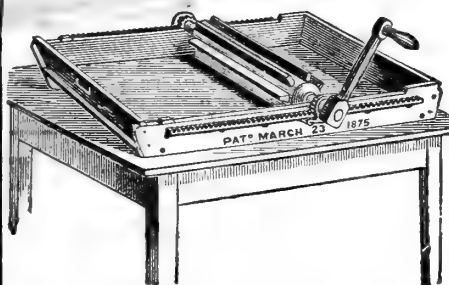
Additional for Tight and Loose Pulley, 12x3, with attachments, \$5.50.

ACME BUTTER WORKER

The Greatest Labor Saver for the General Butter Maker Ever Introduced.



It is the only worker made in which butter can be washed (same as in bowl), then the water drawn off and the butter worked without delay. \$2.00.



REID'S BUTTER WORKER.

No.	Measure- ment.	Capac'y	Wt.	List Price.	Retail Price.
1	23x36x2 1/2 in.	50	45	\$10.00	\$8.00
2	20x36x2 1/2 in.	30	29	8.00	6.40
3	17x27x2 1/2 in.	20	25	7.00	5.60
4	14x24x2 1/2 in.	10	20	6.00	4.80

Larger size, especially designed for mixing, re-working and coloring, or creamery use.

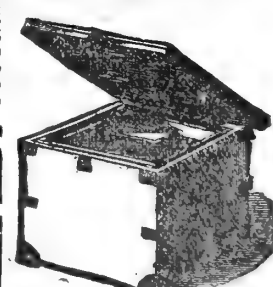
No.	Measure- ment.	Capac'y	Wt.	List Price.	Retail Price.
0	23x37x3 in.	75	60	\$12.00	\$9.38
00	23x56x3 in.	112	80	15.00	11.25
000	23x72x3 in.	150	100	18.00	13.50

When desired, we can send legs along with any size machine for \$4.00 extra, which can be set up after arrival at destination.

These boxes are iron bound at the edges and capped at the corners. An ice box is fitted in the center, which can be removed at will and the space utilized.

Capacity	Price.	Capacity	Price.
36 1/2-pound prints.	\$4.50	30 pound prints.	\$4.25
64	5.25	40	4.75
80	5.50	56	5.00
100	6.00	80	5.50
120	6.50	96	6.00
140	7.00	120	6.50
20 pound	3.75		

BUTTER BOXES



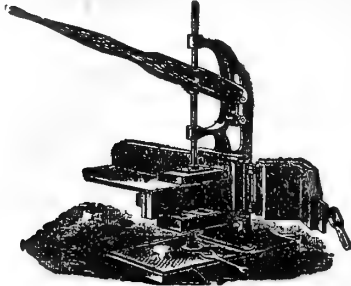
FLOATING GLASS THERMOMETERS.



Price 25c. each.
-in. Dairy Thermometer, stands boiling water, price 50c. each.

Milk Hydrometer, No. 2080, 40c.
Milk Hydrometer, No. 2085 (Quevenne), 75c.
Add 5 cents each, if by mail.

REID'S SELF-GAUGING BUTTER PRINTER.

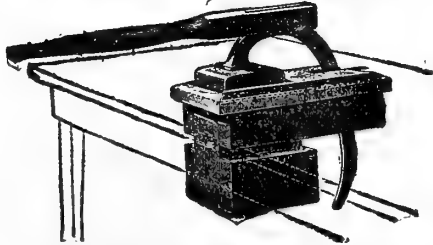


Prints butter very neatly and quickly. Weighs into pounds or half pounds as desired. Does it in one-quarter the time it can be done by hand, making prints of uniform weight. Moulds are square.

PRICE.

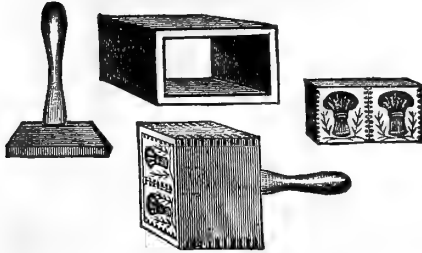
Either pound or half pound.....\$10.00
Both pound and half pound combined..... 13.50
Extra for initials and monograms. 1.50

LA FAYETTE BUTTER PRINTER.



Extra for initial or monogram, \$1.50.

BRICK BUTTER MOULD.



Seelye Pattern.

Furnished with sheaf of wheat. Movable block, 1/2 pounds.
Seelye Pattern.....\$.60

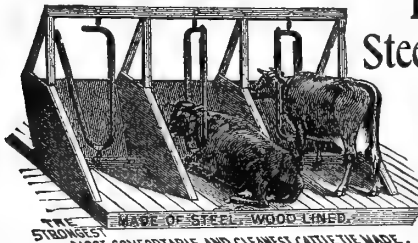
Round Prints, 1/2 lb. \$.10
Round Prints, 1/4 lb. .10

INDIVIDUAL BUTTERS.

Square, 1/2 ounce....\$.15
Square, 1 ounce..... .15
Round, 1 ounce..... .10



PATENTED AUG. 9TH 1898.



The Taylor Steel Stanchion.

The strongest Stanchion made. Since the frame consists entirely of steel and malleable iron, it is practically indestructible and will last a lifetime.

Gives Free and Natural Movement of the Head and Neck.

Swings on chains, top and bottom, and gives much more freedom to the cow's head than the old style stiff stanchion. Practically the cows are as comfortable as when in the field; for they are able to lick their sides and lie down with the head on the shoulder, as nature intended.

No Mortised Corners to Wear Loose. The corners are formed of solid angle steel, bent to shape, and are as strong, if not stronger, than the straight sides.

Not Cumbersome About Neck of Cattle. The angle steel used in the Taylor Stanchion, which is 1 1/4 by 1 1/4 inches wide, is less than one-fourth as large as the wood used in other stanchions.

Dimensions of Stall. For ordinary-sized cattle, give each a stall 3 feet wide by 4 feet 6 inches long floor space. Make gutter along rear of stall of sufficient depth to catch all droppings. A stall so constructed with the Taylor Stanchion insures a larger production of milk.

Price, Style No. 1.....\$1.50
Extra Heavy, No. 2..... 2.00



Fig. 2.

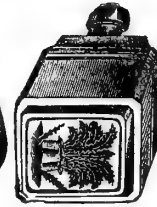


Fig. 3.

EXTRA HEAVY BRICK BUTTER MOULD Philadelphia Pattern.

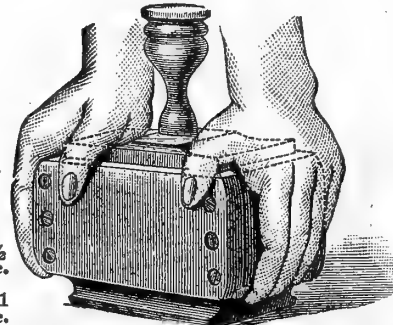


Fig. 4. (This shows the way mold is used.)

Fig. 2—R. & B. 1/2 lbs., round, 25c.

Fig. 2—R. & B. 1 lb., round, 30c.

Fig. 4—Philadelphia Pattern, 1/2 lb. \$1.00
Fig. 4—Philadelphia Pattern, 1 lb. 1.50
Can furnish square moulds to order with initials cut at an extra cost of \$1.00.

WELLS, RICHARDSON & CO.'S BUTTER COLOR.

Will not color the buttermilk; will never turn rancid; gives the brightest and best color; butter never becomes reddish; perfect economy in use. It is cheaper than any other coloring, being put up in three sizes, selling at 25c. to color 500 pounds; 50c. to color 1,250 pounds; \$1.00 to color 2,800 pounds.

PARCHMENT BUTTER PAPER.

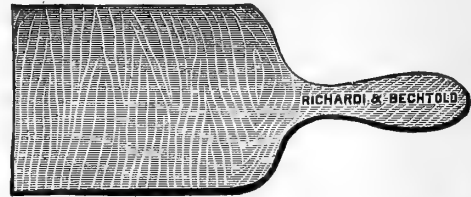
It can be used in all cases where wax paper, tin foil or muslin has been adopted, and in many cases where these cannot, for preserving goods from the effects of moisture, etc. In sheets 24x36, or can furnish the paper cut in the following sizes without extra charge: 6x9 for half pounds, 9x12 for one pounds, and 10x15 for two pounds. Price, 20c. per pound; by mail, 35c.; 6 pounds, \$1.00.

Fig. 3—R. & B. 1/2 lb., square, 30c.

Fig. 3—R. & B. 1 lb., square, 35c.

Factory Dairy Ladle.

Hard Maple.



LADLES AND SPADES.

No. 1 Spades.....\$.10
Same, 4x12 inches..... .10

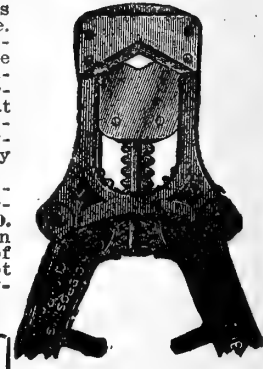
The Keystone Dehorning Clip

The practice of dehorning cattle is coming more and more into vogue. It is a mercy to the animals. Prevents goring. Does not crush the horns. No twisting motion or second cut on horn. Parts are all interchangeable, and can be replaced at any time. It is approved by veterinary surgeons and leading dairymen. The horns must go, and they cannot go too soon.

Clipper, with leader and rope, extra blades and screw, fully warranted, \$12.00. Clipper alone, \$10.00.

We furnish a cheaper clipper than the above that is superior to any of the cheap clippers made, but do not recommend it as broadly as the Keystone, which has no equal.

Price \$8.00.



CALF DEHORNER.



ANYONE CAN OPERATE IT.

Price List.

Perfection Calf Dehorner, including sample box of Perfection Cream and full instructions for operating, etc.
Net, Plain.....\$3.50
Net, Nickel-plated..... 5.00
Perfection Cream, per pound..... .50
Discount on Five-Pound Orders.



SAVE YOUR COWS

BY USING
KOW-KURE
THE GREAT COW MEDICINE

Watch every cow and at the first sign of disorder in appetite, digestion or flow of milk, give a dose of **KOW-KURE**. Carefully follow the directions as given on the box and that cow will get well.

KOW-KURE is in powder form, to be given in regular feed. It cures abortion, barrenness and scours, removes retained afterbirth and caked udder, strengthens the appetite, purifies the blood, vitalizes the nerves and prevents disease. It increases the milk. It is a medicine for cows only.

Prices, 50c. and \$1.00.

BAG BALM

For all diseases of the cow's udder and teats there is no remedy so quick and certain in its curative powers as **BAG BALM**. It is a soothing, penetrating ointment, especially adapted for all those serious and annoying troubles known as caked bag, cow pox, chapped, cracked and sore teats, bunches, chafing and inflammation of all kinds. **BAG BALM** penetrates through the skin and inner tissues at once, reaching the glands, where it reduces the inflammation, breaks up the bunches and spreads its cooling, softening effect to all the affected parts. This remedy has met with unequalled success and is found on the most progressive dairy farms in the country. Price, 50c.

HORSE TONIC

This tonic is a specific for horses, an actual medicine that goes to the root of all horse ailments and removes the cause of the trouble.

A few doses will send a dull, listless horse on its way rejoicing.

Its curative power is wonderful. **AMERICAN HORSE TONIC** is the best remedy known for worms, stoppage of water, all bowel complaints, inflammation of the lungs, recent founders, distemper, coughs, colds and swelling of the glands of the throat. Per box, 50c.

COWS' RELIEF

Cures caked bags, heals sore teats, cures spider in the teat. The original. Cows' Relief, 1/2-lb. box.....\$ 50
Cows' Relief, 1 1/2-lb. box..... 1.00

HORSE COMFORT

The Most Remarkable Remedy Ever Compounded for Healing Cuts and Open Sores of Every Kind. **HORSE COMFORT** is a liquid preparation which is unequalled in its power to quickly cure all kinds of open sores or abrasions of the skin. It is used by simply wetting the sore spot. No bandages or filthy rags, no rubbing or heating it in. Simply wet the spot and the cure begins. Price per bottle, 25c. and 50c.

PRIMO REGULATING AND RENOVATING POWDER FOR HORSES.

Healing and strengthening the throat, lungs, stomach and intestines, creating an appetite. Price, 2 lbs., 50c.; 5 lbs., \$1.00.

PRIMO BOVOTONE CATTLE TONIC POWDER.

Each ingredient of this tonic has been blended to give nourishment and strength, tissue and nutrient perfection to the body, so that all portions of the animal will act in harmony. Contains no minerals or poisons; is a germicide, and keeps cows free from parasites. Price, 2-lb. can, 50c.; 5-lb. can, \$1.00.

PRIMO UNIVERSAL PAIN KILLER AND HEALER FOR ALL KINDS OF STOCK.

Contains no minerals or poisons. The magnetic healing effects of this preparation are greatly increased by heating. Heat it and bathe the parts affected. Price, pints, 25c.; quarts, 50c.

Arabian Scratches and Gall Cure

Is without an equal. It cures every horse every time. 3 ounces, 25c. 9 ounces, 50c.

PRATT'S ANIMAL REGULATOR

Pratt's Animal Regulator is a regulator and stimulating tonic. The ingredients consist of pure medicinal roots, herbs and barks, carefully blended in the exact proportions necessary to gently but surely act on the blood, bowels, liver and digestive organs of horses, cows, sheep and hogs. It causes perfect digestion. 25c.

Also the following **PRATT'S Remedies:**

- PRATT'S Conditioner**, 75c. and \$1.50.
- PRATT'S Worm Powder**, 50c. box.
- PRATT'S Veterinary Healing Ointment**, 25c.
- PRATT'S Heave, Cough and Cold Cure**, 50c. and \$1.00 box.
- PRATT'S Veterinary Colic Cure**, 50c. and \$1.00 bottle.
- PRATT'S Veterinary Liniment**, 25c., 50c. and \$1.00 bottle.
- PRATT'S Germathol**, 25c., 50c. and \$1.00 bottle.
- PRATT'S Peerless Hoof Ointment**, 25c. and 50c. boxes.
- PRATT'S Poultry Regulator**, 25c., 50c. and 60c. pkgs. Also \$1.25, \$2.50, \$5.00 and \$9.00, and \$1.35 and \$2.60 pails.
- PRATT'S Roup Cure**, 25c. and 50c. box.
- PRATT'S Lice Killer**, 25c. and 50c. package.
- PRATT'S Head Lice Ointment**, 10c. and 25c. tins.

Dr. Lesure's Veterinary Medicines

Colic Cure, \$1.00. Fever Drops, 50c., \$1.00. Cough and Tonic Drops, 50c., \$1.00. Horse Renovator, 50c., \$1.00. Worm Annihilator, 50c. Electric Hoof Ointment, 50c. Total Eclipse Spavin Cure, 50c. All-Healing Balm, 50c. Gall Cure, 25c., 50c. Lesure's Liniment, 50c.

Nice cabinet furnished with an assorted order of \$20.00.

Dr. Daniels' Veterinary Remedies

Colic Cure, \$1.00. Cough, Cold and Fever Drops, 50c. Horse Renovator, 50c. Wonder Worker Oster-Cocus (Nerve and Muscle Liniment), 25c. and 50c. Hoof Grower and Softener, 50c. GaM Cure, 25c.

Primo Liquid Remedy and Tonic for Fowls

For Gapes, Roup and other internal afflictions. Keep coop clean and disinfect it. Feed Matchless Egg Maker. Price: Pints, 25c. Quarts, 50c.

Primo Poultry Condition Powder and Tonic

An absolutely vegetable compound; will cause fowls to thrive and will keep them warm in fall and winter seasons. Very high in protein. Use occasionally with Matchless Egg Maker. Price, 2 lbs., 50c. 5 lbs., \$1.00.



SO-BOS-SO

(Kilfly) is a liquid mixture designed to protect cows and horses from torture of flies.

The preparation is positively harmless. It is used with splendid results as a disinfectant and germicide. If your animals are troubled with lice, use SO-BOS-SO (Kilfly). Spray your poultry house with SO-BOS-SO (Kilfly). It kills lice or any vermin that may infect the fowls. Put up in 1-gallon cans.

Price, 75c. per gallon.

TOUGH ON FLIES

One application instantly and positively relieves horses and cattle from all annoyances from green heads, the dreaded Texas heel fly, as well as other flies, gnats and insects of every description for at least 24 hours. It improves the animal and abolishes the use of fly nets.

Price: Quart, 50c. Half gallon, 90c. Gallon, \$1.50.

"ANTIKOL" HOG CHOLERA

AND IDEAL TONIC.

Sure cure for hog and chicken cholera. Write for circular and prices.

BALTIMORE CEDAR WASHER



PRICE
\$4.50

ELECTRIC WELDED WIRE HOOPS.

THE Baltimore Washer is constructed of the best white cedar, very strong, nicely finished and is one of the largest round Washers on the market. Round, electric-welded hoops of extra heavy galvanized wire, fitted in a groove around the machine, which prevents them from dropping off. The Baltimore is supplied with improved gearing, and all the castings are japanned. The inside is fully corrugated, similar to a washboard, having no nails or block of any kind. The bottom and sides are corrugated; in others the corrugation runs only the length of the staves, thus making crevices for dirt and allowing the steam to escape through the top and water to leak through the bottom. The bottom of the tub is larger than the top, allowing plenty of room for water and clothes. In this machine is placed a square galvanized iron rod fastened firmly to the dolly.

Instead of using a square wooden post to work the dolly (that is, the circular wooden revolving head that holds the clothes in position), in this machine is placed a square galvanized iron rod fastened firmly to the dolly. The whole arrangement can be lowered or raised by the operator without removing the tops, and it will also accommodate itself automatically to the quantity of clothes, rendering it impossible to tear the most delicate fabric, as this offers nothing to which the clothing can catch.

OUR SPECIAL PRICE.....**\$4.50**

ORIOLE CEDAR WASHER.

THE ORIOLE is precisely the same in construction as the Baltimore, described above, and while made of cedar the wood is not selected with the same care. While the Baltimore is finished in natural wood, the Oriole is painted. We recommend it as a first-class machine for the money.

OUR SPECIAL PRICE.....**\$3.75**

THE MARYLAND WASHER.

To meet the demand for a low-priced Washer, we offer the Maryland, which is made of pine instead of cedar, but in all other respects is the same as Baltimore Cedar, shown above.

OUR SPECIAL PRICE.....**\$3.50**

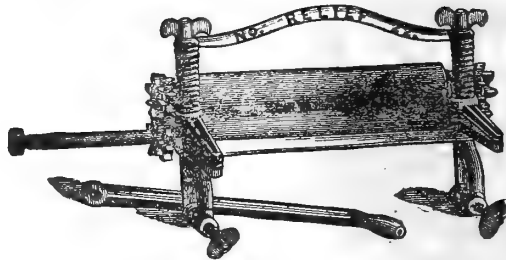
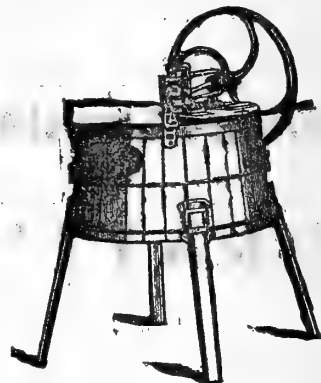
GRIFFITH AND TURNER IMPROVED CEDAR ROTARY WASHER, No. 2.

ELECTRIC WELDED WIRE HOOPS.

IT IS A FACT unquestionable that white cedar is the only wood known that successfully resists the action of water, as witness, white cedar shingles and posts oftentimes last for a hundred years. Ninety per cent. of the washtubs used are made of cedar because they are preferred. That being the case, why should not cedar washing machines also?

This is the lightest-running and easiest-working washing machine made. Roller bearings; no friction. Works in both directions. Very simple; nothing to get out of order. The tubs are made of selected VIRGINIA WHITE CEDAR, and are nicely corrugated on sides and bottom. The hoops are made of galvanized wire, and are welded by electricity. These are much stronger than the old style flat hoops, and CANNOT DROP OFF, being sunk in grooves.

OUR SPECIAL PRICE.....**\$6.50**



RELIEF WRINGER.

IRON FRAME. THE FRAME IS MADE ENTIRELY OF WROUGHT AND MALLEABLE IRON.

By the use of the thumb-nuts and spiral springs in this Wringer the pressure can be adjusted quickly for either heavy or light work; therefore the rolls are never overstrained, and will wear much longer than the ordinary iron frame Wringer. With cog wheels. Five sizes. Packed four and six in a case.

- No. 330—SMALL FAMILY. Price.....**\$3.00** Rolls, 10-in., each....**\$1.25**
Size of Rolls, 10x1¼ in.
- No. 332—LARGE FAMILY. Price.....**\$3.75** Rolls, 12-in., each....**\$1.50**
Size of Rolls, 12x1¼ in.

SUPERIOR WRINGER.

We also carry a stock of the following well-known Iron Frame Wringers:

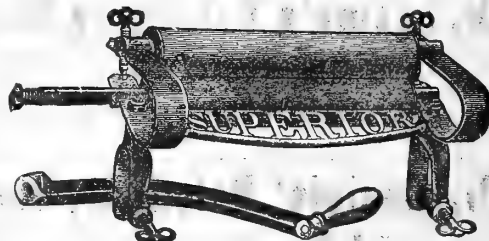
Name.	Size of Rolls.	Price.
Superior, No. 210.....	10x1¼ inch.....	\$2.75
Superior, No. 212.....	12x1¼ inch.....	3.50
Star, No. 10.....	10x1¼ inch.....	2.00

CRESCENT—Same as Relief, but cheaper grade rolls.

No. 130.....	10 inch.....	2.50
No. 132.....	12 inch.....	3.25

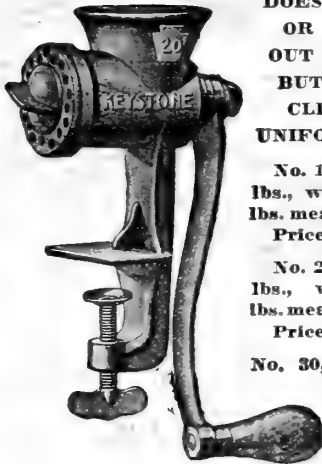
EXTRA ROLLS—

Superior.....	10 inch.....	1.25
Superior.....	12 inch.....	1.50
Cheaper grade.....	10 inch.....	1.00
Cheaper grade.....	12 inch.....	1.25



KEYSTONE FOOD CHOPPER

All Raw or Cooked Meats and All Kinds of Vegetables and Fruits.



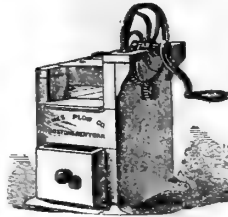
DOES NOT MASH OR SQUEEZE OUT THE JUICES, BUT DELIVERS CLEAN-CUT, UNIFORM PIECES.

No. 10, weight 3½ lbs., will chop 1½ lbs. meat per minute. Price, each, \$1.25.

No. 20, weight 4½ lbs., will chop 2 lbs. meat per minute. Price, each, \$1.50.

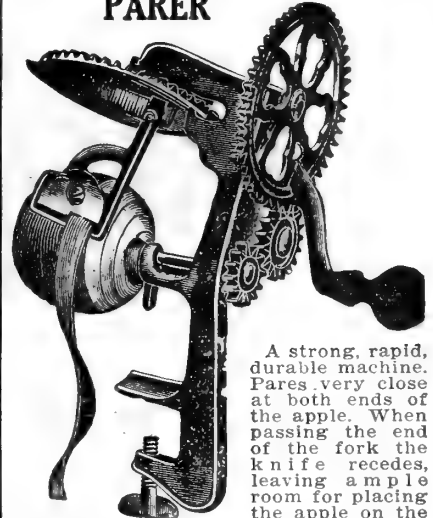
No. 30, weight 6¼ lbs., will chop 3 lbs. meat per minute. Price, each, \$2.00.

HORSE RADISH GRATER



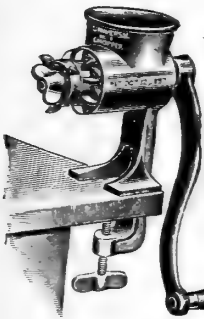
With tin clad cylinder for Horse Radish. List price.....\$7.50 Retail 7.00
 With steel pin cylinder for Horse Radish. List price 8.50 Retail 8.00
 With steel pin cylinder for Cooanut. List price.....\$9.50 Retail 9.00
 With steel pin cylinder for Horse Radish, with legs, balance wheel, treadle and crank. List price.....\$15.00 Retail 14.00

1898 TURNTABLE APPLE PARER



A strong, rapid, durable machine. Pares very close at both ends of the apple. When passing the end of the fork the knife recedes, leaving ample room for placing the apple on the fork. Does not core or slice. Push-off is automatic. Price, 75c. each.

THE UNIVERSAL FOOD CHOPPER



Chops all kinds of meat, raw or cooked, and all kinds of fruits and vegetables—in fact, everything that is ordinarily chopped in a chopping bowl—into clean-cut, uniform pieces, fine or coarse, as wanted, without squeezing or mashing, and with great rapidity. No. 0, Small Family, three cutters\$1.25

UNIVERSAL MEAT CHOPPERS.

No. 331.....\$2.25
 No. 333..... 2.50
 No. 304..... 3.50

WILSON FRUIT AND VEGETABLE CANNER No. 2

A Complete and Perfect Canner. No Cook Stove or Furnace Needed.

PRICE INVARIABLY \$12.50.

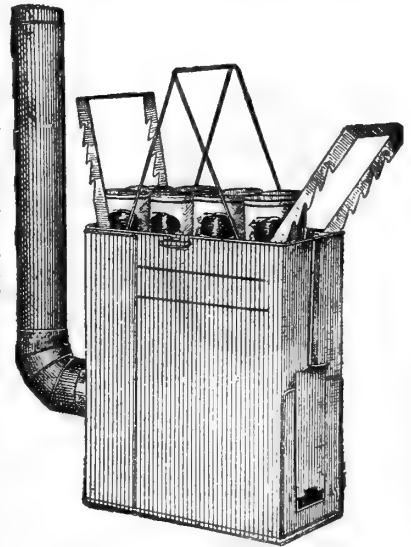
Fire box surrounded by water; no danger of burning out; almost the entire amount of heat goes directly to the water, thus keeping temperature at boiling point; requires only a small amount of fuel; greatest possible results in shortest possible time.

Made of galvanized iron, baskets so constructed to do away with tongs entirely; can be used either in house or out of doors.

The outfit has capacity of 12 two-pound cans of peaches every 10 minutes; berries, 12 every 5 minutes. Vegetables, according to time required to prepare. Does the work perfectly and is a boon to market gardeners; uses tin cans. We invite inspection. Anyone can operate it.

When ordering, always state if coal or wood is to be used. Unless otherwise ordered, wood burner will be sent. Shipping weight, 50 pounds.

Price includes 2 metal baskets, each holding 12 two-pound cans or 9 three-pound cans, carrying 24 two-pound or 18 three-pound cans at once; two soldering coppers, one pair of can tongs, two joints pipe, one elbow, our instruction book, telling how to can all kinds of fruits and vegetables successfully.



UNIVERSAL STEEL LARD and FRUIT PRESS and SAUSAGE STUFFER

Strong, Unbreakable

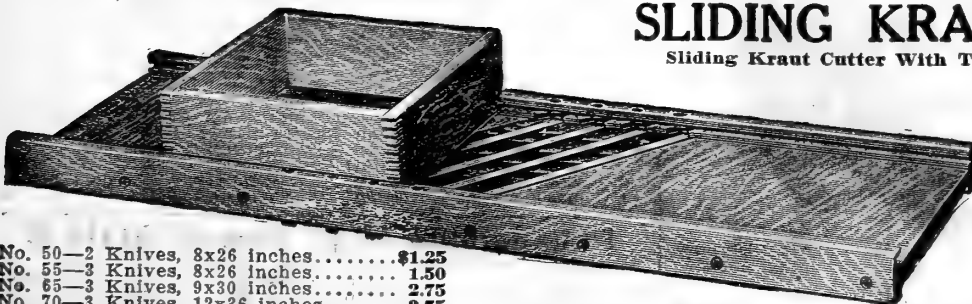


The top can be swung around, permitting the machine to be filled where it stands, and also that the bowl can be handily taken out to be filled or emptied or cleaned.

No. 44, four quarts.....\$5.50
 No. 88, eight quarts..... 7.00

SLIDING KRAUT CUTTER

Sliding Kraut Cutter With Two, Three or Four Knives.



No. 50—2 Knives, 8x26 inches.....\$1.25
 No. 55—3 Knives, 8x26 inches..... 1.50
 No. 65—3 Knives, 9x30 inches..... 2.75
 No. 70—3 Knives, 12x36 inches..... 3.75
 No. 75—4 Knives, 12x36 inches..... 4.50

adjustment is perfect, being controlled with ¼-inch round-head stove bolts.

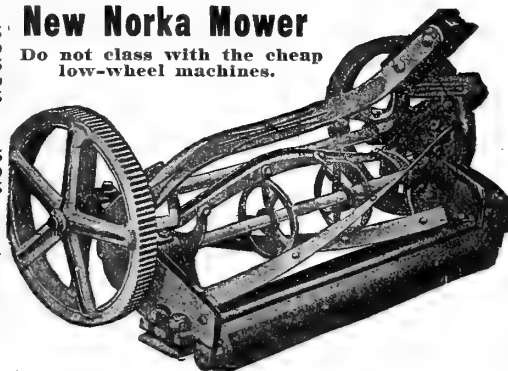
These Kraut Cutters are constructed on the same principle, but are a decided improvement on the old style machines. Each knife is independent of the other and can be quickly adjusted to cut fine or coarse at will.

In the old style kraut cutters the knives could rarely be adjusted just right, and if they were they probably refused to stay. These Cutters are made of heavy hardwood and are fitted with a hardwood box which runs in grooves. Knife

Regular.
 10 in...\$3.25
 12 in...3.50
 14 in...3.75
 16 in...4.00
 18 in...4.25

New Norka Mower

Do not class with the cheap low-wheel machines.



Ball Bearing.
 14 in...\$4.75
 16 in...5.00
 18 in...5.25

9-INCH WHEEL.

Pawl and pinion attachment thoroughly tested; one of the best. Ratchet Clutch, cast solid with pinion; no extra pieces to break or get out of order.

CALUMET MOWER.

Low priced and good. 12 in., \$2.50. 14 in., \$2.75. 16 in., \$3.00.

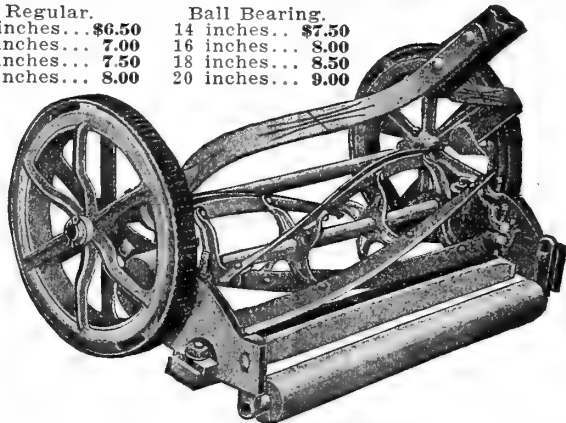
"NEW ELECTRIC" MOWER

Wheels 9 inches diameter. Reel 5 1/4 inches diameter. Four blades. Special Ball-Bearing Adjustment, high-grade hardened steel balls, cups and cones, ground, polished and dust-proof. Reel Shaft cold rolled Steel, Reel Knives best grade Knife Steel, perfectly ground.

Regular.		Ball Bearing.	
12 in...\$4.50	16 in...\$5.00	12 in...\$5.50	16 in...\$6.00
14 in...4.75	18 in...5.25	14 in...5.75	18 in...6.25

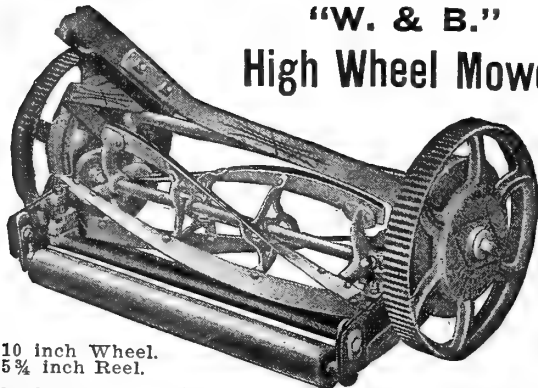
"NEW DIAMOND" LAWN MOWER

Regular.		Ball Bearing.	
14 inches...\$6.50	16 inches...7.00	14 inches...\$7.50	16 inches...8.00
18 inches...7.50	20 inches...8.00	18 inches...8.50	20 inches...9.00



Strictly first-class, high-wheel, adjustable reel Mower. Built very strong; cannot be jarred out of adjustment. Castings have long hubs, through which an 11-16 in. solid steel shaft is passed and secured by set screws.

"W. & B." High Wheel Mower

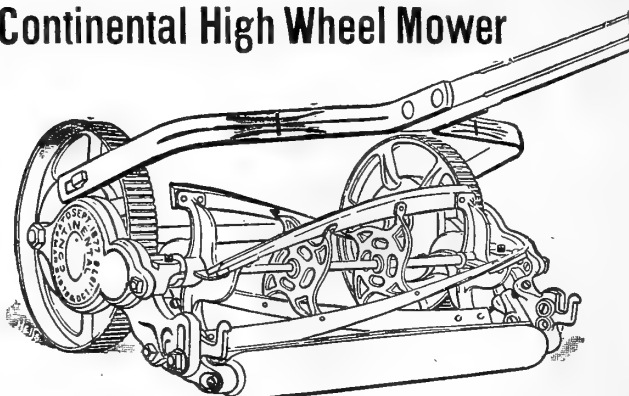


10 inch Wheel.
 5 1/2 inch Reel.

Absolutely rigid frame; cutter bar adjustment; phosphor bronze bearings; three-pawl ratchet, insuring quick, positive action; practically indestructible.

Regular.		Ball Bearing.	
14 in...\$8.00	16 in...9.00	14 in...\$9.00	16 in...10.00
18 in...\$10.00	20 in...11.00	18 in...\$11.00	20 in...12.00

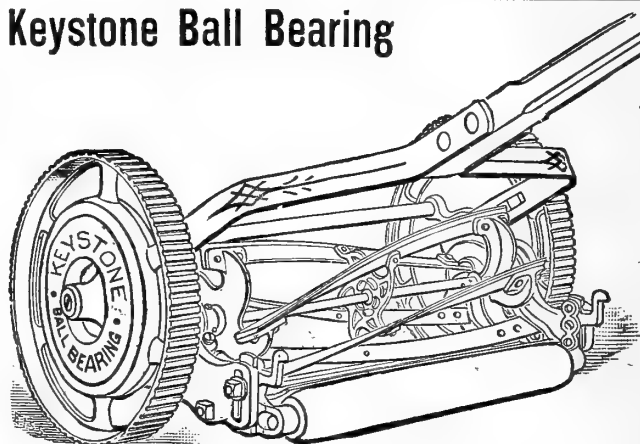
Continental High Wheel Mower



This very high grade machine will cut fine grass two inches high, also grass six to eight inches. We highly recommend this machine.

15 inches...	List \$25.00	Retail \$12.00	19 inches...	List \$31.00	Retail \$15.00
17 inches...	28.00	13.50	21 inches...	34.00	16.50

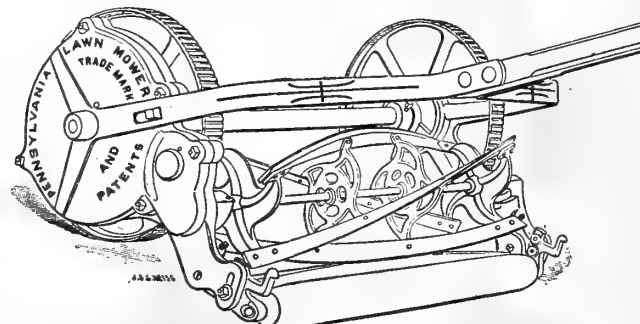
Keystone Ball Bearing



Every detail of this Mower is in keeping with the high grade of the Pennsylvania and Continental. Can be regulated to cut from 1/2 to 1 1/2 inches from the ground.

15 inches...	List \$25.00	Retail \$10.50	19 inches...	List \$31.00	Retail \$13.50
17 inches...	28.00	12.00	21 inches...	34.00	15.00

Pennsylvania High Wheel Mower



This high-grade Mower is constructed for cutting ordinary grass, as well as grass from 6 to 10 inches high. Wheel, 10 1/2 inches; cylinder, 6 1/2 inches. Four crucible steel knives.

15 inches...	List \$25.00	Retail \$12.00	19 inches...	List \$31.00	Retail \$15.00
17 inches...	28.00	13.50	21 inches...	34.00	16.50

Philadelphia High Wheel, Style E

A high-grade machine. One of the best of this make.

15 inches.....	List price, \$25.00	Retail price, \$9.50
17 inches.....	List price, 28.00	Retail price, 10.50
19 inches.....	List price, 31.00	Retail price, 11.50
21 inches.....	List price, 34.00	Retail price, 12.50

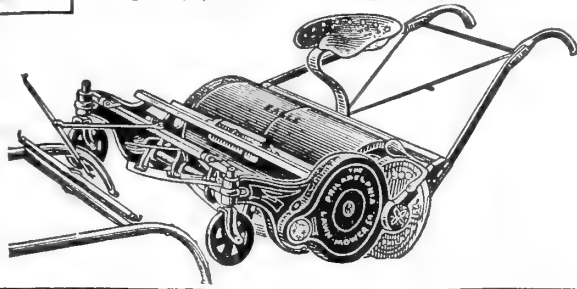
BALTIMORE HORSE LAWN MOWER



Phila. Eagle Horse Mower

The latest production of the Philadelphia Lawn Mower Co. in horse mowers, and, in our opinion, one of the best machines they ever produced.

- 30-in., with seat and shafts and draft pole. List price, \$100.00. Retail price, \$75.00.
- 35-in., with seat and shafts and draft pole. List price, \$125.00. Retail price, \$95.00.
- 40-in., with seat and shafts and draft pole. List price, \$150.00. Retail price, \$112.50.



The Baltimore Horse Lawn Mower is guaranteed to be equal to any machine made. In order to appreciate its good points it is necessary to see it at work on the lawn, where it performs in a most satisfactory manner.

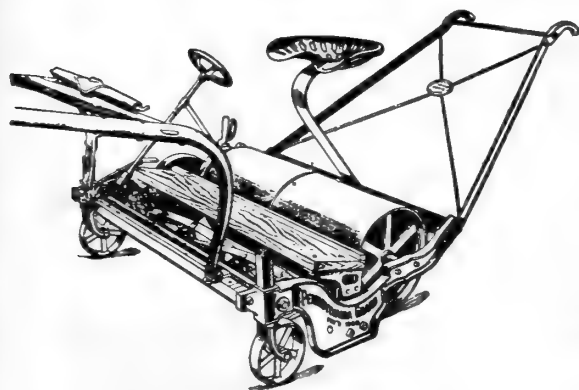
25-inch Machine, with draft rod.....	Retail Price, \$42.50	List Price, \$65.00
30-inch Machine, with draft rod.....	Retail Price, 63.00	List Price, 100.00
30-inch Machine, shafts and seat....	Retail Price, 68.00	List Price, 110.00
35-inch Machine, shafts and seat....	Retail Price, 80.00	List Price, 135.00

Special Discount for Cash.

Can also furnish the famous "Old Style Philadelphia" and the I. X. L. Horse Mowers. Prices on application.

Penna. Regular Horse Mower

Furnished with handles and draft irons, the latter arranged to swing to the side, thus permitting the horse to walk on the cut grass.



New "Penna. Grand" Horse Mower

The high-grade material and workmanship of this Mower are characteristic of all machines of this make.

The wheel at the right of the driver's seat regulates the height of cut from 3/8 inch to 2 3/4 inches. The operator, without leaving his seat, can instantly change from low to high cut.

Diameter of cylinder, 7 1/2 inches. Diameter of drums or rollers, 15 inches.

With handles and draft irons only.

- | | | |
|---|----------|----------|
| 30-inch Cut. | Retail. | List. |
| 4 Knives, shipping wt., 595 lbs.. | \$75.00 | \$100.00 |
| 6 Knives, shipping wt., 605 lbs.. | 84.00 | 112.50 |
| 38-inch Cut. | Retail. | List. |
| 4 Knives, shipping wt., 675 lbs.. | \$97.50 | \$130.00 |
| 6 Knives, shipping wt., 705 lbs.. | 107.00 | 142.50 |
| Complete with seat, shafts, etc. | | |
| 30-inch Cut. | Retail. | List. |
| 4 Knives, shipping wt., 635 lbs.. | \$90.00 | \$120.00 |
| 6 Knives, shipping wt., 645 lbs.. | 99.00 | 132.50 |
| 38-inch Cut. | Retail. | List. |
| 4 Knives, shipping wt., 720 lbs.. | \$112.50 | \$150.00 |
| 6 Knives, shipping wt., 750 lbs.. | 122.00 | 162.50 |

- 30-inch, List, \$100.
 - 38-inch, List, 130.
 - 30-in., Retail, 70.
 - 38-in., Retail, 91.
 - 30-in., weight, 358 lbs., 4 knives.
 - 38-in., weight 400 lbs., 4 knives.
- For shafts, seat and footboard, add, List, \$20.00; Retail, \$14.00.

Will fit any mower. Canvas body, blacked sheet metal bottom. Two sizes—No. 1 will fit 10, 12, 14 and 16 inch mower, and No. 2 will fit 16, 18 and 20 inch. List price, per dozen, \$16.50. Retail price: No. 1, 75c.; No. 2, 90c.

Golf Roller Mower

Peculiarly adapted for use on Golf and Tennis Grounds.

The heavy iron roller, together with the speed of the revolving knives, produces the very best results, leaving a smooth-cut surface on the lawn. The adjustments are simple and the durability and efficiency beyond question.



	List.	Retail.
10-inch, 4 blades.....	\$13.00	\$9.10
12-inch, 4 blades.....	15.00	10.50
14-inch, 4 blades.....	17.00	12.00
16-inch, 4 blades.....	19.00	13.00
18-inch, 4 blades.....	21.00	15.00
20-inch, 4 blades.....	23.00	16.00

For 6 blades, add to list \$1.00. For retail, add 70c.

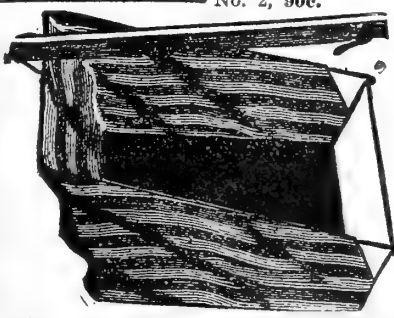
Combination Hand and Pony Mower



The patented horse attachment of the Mower is its great feature. The draft of the Mower is just the same as when operated with the handle. Diameter of wheels, 10 in.; weight, 90 lbs. Price, \$15.00. Special Discount for Cash.

ing sole inside and out (see cut) gives a before obtained in a lawn boot. Rolling toe prevents cutting of turf. Width inside, No. 2, 5 1/2 in.; No. 4, 6 1/2 in.; No. 6, 7 in.—the right sizes for Nos. 2, 4 and 6 horse-shoes. No. 0 Mule and No. 1 Pony. Special sizes to order. Width inside, 4 in.; 4 1/2 in. List price, \$16.00. Our price, per set, \$9.00.

Universal Grass Catcher



"LINKS" LAWN BOOT

Is fastened firmly to hoof instead of around ankle, thus giving free action to horse's feet and obviating all possibility of chafing. Process of hardening, water-proofing and steel-rivet- durability never

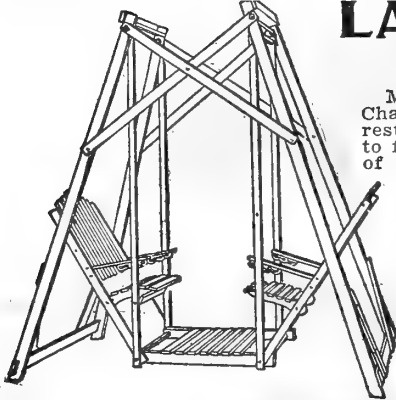


Lawn Mower Repairing and Sharpening.

SEND in your **LAWN MOWERS** early for sharpening and repairing. This department, in season, is run to its full capacity, and in consequence we are compelled to adopt the policy of "first come first served." We wish to urge upon our friends the necessity for complying with the above request, and if they do not one need have to wait while the grass is growing. **Look over your machines during the winter** (this applies to other kinds of machinery as well as Lawn Mowers), and see what repairs are needed. Do not wait until spring work is crowding you. We employ efficient mechanics to do our machine repairing, and turn out jobs in the best possible manner and as expeditiously as the quality of the work will admit. To properly sharpen a Lawn Mower requires someone who thoroughly understands his business, and even though it may be properly sharpened, unless it is adjusted to a hair it will not cut. After we turn out a machine it should be severely let alone, and if it does not cut send it back to us, and do not attempt to adjust it yourself. There is no mower that leaves our shop that is not adjusted to cut tissue paper, and if it does not do the work satisfactorily it is owing to hard usage before reaching its destination. The cheap machines that are flooding the market are made of cheap material and will wear only a short while, and can rarely be repaired at all.

LAWN SWINGS THE ARCTIC

Made from selected stock, very strong. Chairs have three adjustments. Footrest can be raised level with the seats to form a hammock. Can adapt height of seats for children. Two and four passengers.



	List price.	Retail price.
Arctic two passenger	\$11.00	\$6.50
Four passenger	15.00	8.50

THE SLUMBERINE SWING,
Two and four passenger; built of hardwood.

	List price.	Retail price.
Two passenger	\$8.00	\$5.00
Four passenger	10.50	6.50

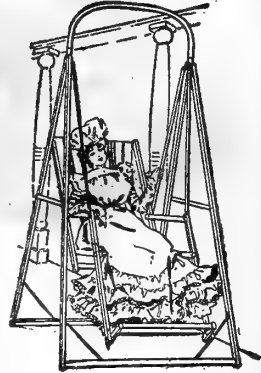
We carry cheap Swings. Prices on application.

ARCTIC

Swinging Chair.

The Latest Design for a Swinging Chair Yet Produced.

It occupies on the porch floor a space about six feet long by three feet wide and about six feet high. It is made of the most substantial material, the best of dry hardwood and steel arms and braces, and arch of steel tubing. It is provided with a footrest, adjustable for children or adults. List price.....\$6.50 Our special price. 4.00



Baltimore Lawn Settees.

This most comfortable Lawn Seat is illustrated herewith. It is attractive and gives plenty of room. Just the thing for parks, porches, picnic grounds, hotels, cemeteries, etc. Painted bright red and varnished.

	List price.	Our special price.
Four feet	\$5.50	\$3.50
Five feet	6.50	4.25

LITTLE WONDER SWING.

Strong, neat, and nicely finished. Made of hard wood and steel.

For a cheap swing it has no equal.

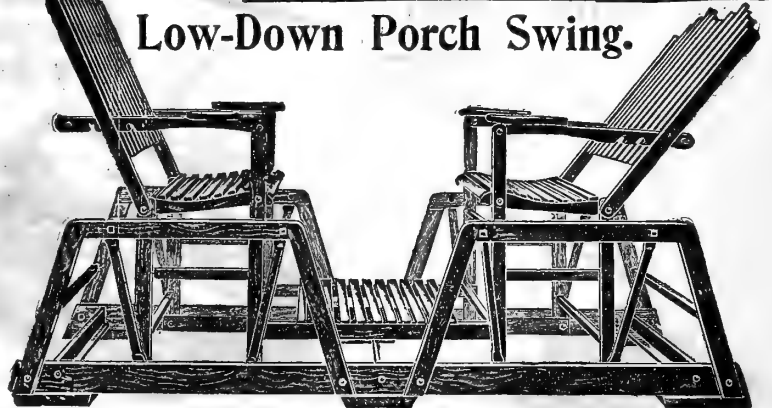
All slats bolted to frame—no rivets.

Size 36 inches between arm rails.

List price, \$6.00. Special retail price, \$3.50.



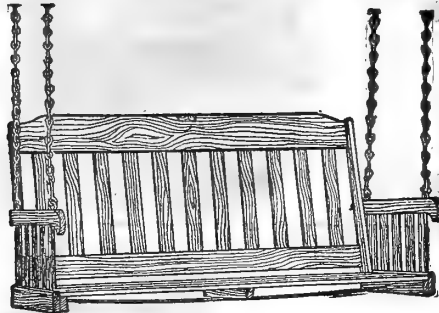
Low-Down Porch Swing.



The swing has an adjustable footrest that may be placed at the proper height to suit the children, and it is so perfectly balanced that the smallest child can operate it.

The backs of the swing may be adjusted to any desired position. Without being thrown back and footrest raised, and with the addition of robes and cushions, it makes a most comfortable swinging couch.

	List price.	Retail price.
Two-passenger swing	\$16.00	\$9.00
Four-passenger swing	18.00	11.00



No. 4.

NOBBY VERANDA SWING.
VERY POPULAR AND DURABLE.

Similar to the Little Wonder.

Finished in golden and weathered oak.

All slats bolted to frame—no rivets. Size of crates for 1/2 doz. Swings, 19x23x42 in. List Price, \$9.50. Retail Price, \$5.50.

HAND LAWN ROLLER

CAST IRON.

These rollers are especially desirable; they will not dent; wet grass and dirt do not cling to them, owing to their highly polished surface and rivetless ends. Have counterbalance, which holds up the handle and makes it easy to push.



No. Sec.	No. Face.	Width	Diam	Total Length.	Weight.	List Price.	Retail Price.
4	2	10 in.	20 in.	20 in.	250 lbs.	\$15.50	\$12.50
6	3	8 in.	20 in.	24 in.	300 lbs.	18.50	15.00
9	2	10 in.	24 in.	20 in.	400 lbs.	24.50	20.00
11	3	8 in.	24 in.	24 in.	450 lbs.	27.50	22.50

We can furnish the above rollers to weigh 50, 100 or 150 pounds more than the weights given, for which add 4c. per lb.

Heavy Cast Iron Rollers from 800 to 10,000 lbs. weight, for Lawns, Farms, Golf Grounds, Roads, etc.

PRICES ON APPLICATION

ONE-HORSE LAWN ROLLER

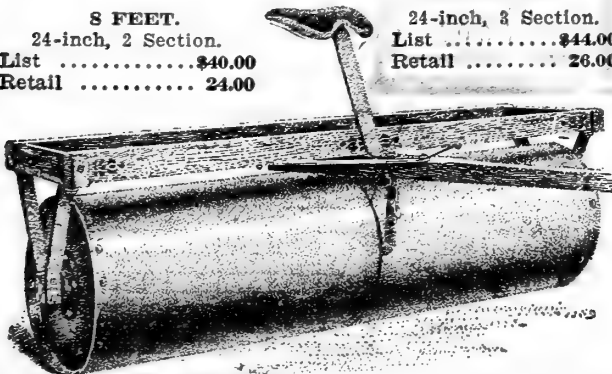


Nos. 16 and 17. No. 16 (see cut) has 24 in. steel rim, 4 feet, one section, one horse; weight, 375 lbs. No. 17 has 26-in. steel rim, 4 feet, two sections, one horse; weight 425 lbs. One Section, 4 ft.—List Price, \$30.00. Retail Price, \$18.00. Two Section, 4 ft.—List Price, \$32.00. Retail Price, \$20.00.

Ideal Steel Rim, 2-Horse Land Roller

8 FEET.
24-inch, 2 Section.
List\$40.00
Retail 24.00

24-inch, 3 Section.
List\$44.00
Retail 26.00



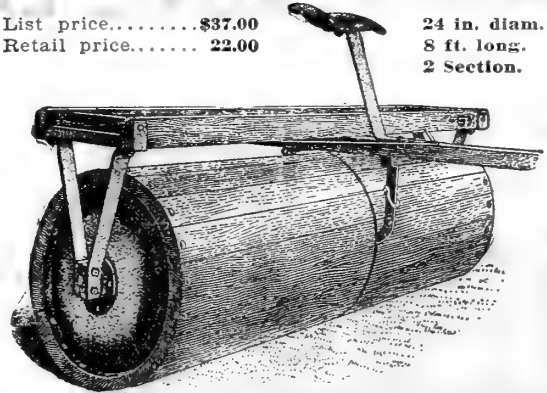
Specially arranged wooden boxes, and axle 1 1/2 inches in diameter, so arranged that it always turns in the boxes at the end hangers, and not in the flanges on the drums; therefore nothing can possibly wear out to any extent about the roller but the wood boxes in the end hangers, and these are easy to oil; one of the drums being set-screwed to the axle insures the axle always turning in the wood boxes, thus relieving the flanges on the drums of any wear; the other drum being loose on the axle, the two turn independently of one another.

Iron corner plates on the frame supporting the steel hangers, thus removing the possibility of the hangers becoming loose and allowing the frame to sag sideways. Closed steel ends.

Ideal Wood Stave, 2-Horse Land Roller

List price.....\$37.00
Retail price..... 22.00

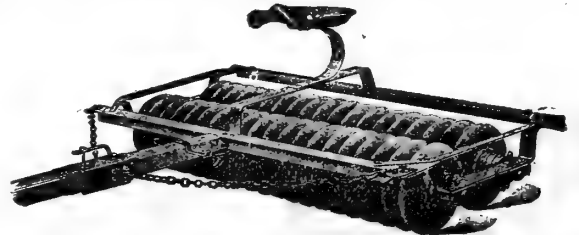
24 in. diam.
8 ft. long.
2 Section.



Closed iron ends of oak stave rollers. These are better than the thin steel ends for wood rollers as they are much more rigid and hold the staves more securely. All staves are bolted, and workmanship and finish are of the best. Material the best that money can buy.

Imperial Pulverizer, Clod Crusher, Roller and Leveler

List price, without pole...\$60.00 List price, with pole...\$65.00
Retail price, 34.00 Retail price, 36.00



The "Imperial" is composed of two sets of hollow-disc rollers which turn upon revolving axis, one set being placed directly behind and just in the center of the other, thereby covering every inch of ground, and effectually pulverizing the hardest clods, and at the same time subjecting the ground to a pressure and packing the soil a couple of inches below the surface, enabling it to retain moisture, and at the same time leaving the surface loose, mellow and level for the reception of the seed. Most pulverizers tear up the soil and leave it too loose to retain the moisture, or to allow the roots to obtain a firm hold, while others, in their attempt to pack the soil will press clods beneath the surface, thereby leaving it in a very undesirable condition for the reception of the seed, and if a harrow is put over the field again all the clods come to the surface and the field is as rough as ever.

The Barker Weeder and Mulcher

List\$8.00
Retail ... 5.00



Operates on the plan of a lawn mower. It is better than a hoe. It is ten times as fast. It is easy to operate. It forms a dust mulch. Cuts your weeds in your garden once a week. It cuts the weeds under the ground as well as the weeds out of the ground. It pulverizes the ground fine which holds the moisture to feed the plant.

The cultivator attachment is very useful when deeper cultivation is desired. The attachment is always ready for use. It does not have to be "put on" or "taken off." It is always on and ready. The tool has only to be turned over to be used as a weeder.

Griffith & Turner Co.

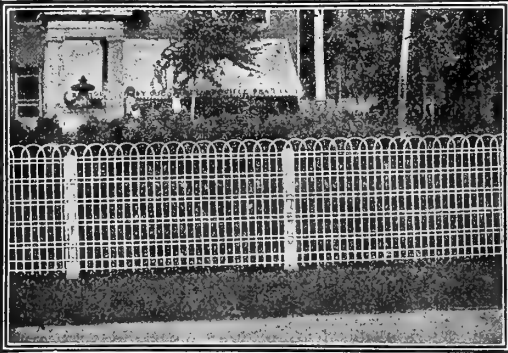
I received a postal asking me to advise you in regard to the weeder which I bought from you some time since. The machine has paid for itself twice over. I am very much pleased with it; it does the work of three men and does it better.

Yours truly,
Jas. T. Hamilton
Mt. Washington, Md., Aug. 15, 1907.

THE WHITE FENCE ACME LAWN FENCE THE TIGHT FENCE

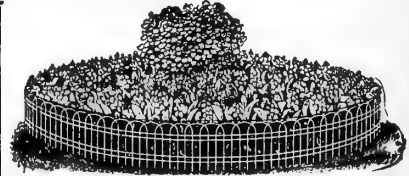
A crimped picket lawn fence which is very popular with our trade. Made of No. 9 High Carbon Steel Wire throughout. The wire is galvanized and the whole fence is covered with white enamel paint, giving double protection against rust. It is closely woven, the pickets being only 2½ inches apart; a special closer woven Acme Fence can be furnished where required. Acme Lawn Fence is not only ornamental, but is strong and effective. It was selected by the Baltimore and Washington Electric Line for enclosing its terminal yard in Washington. Acme Fence is made in different heights, from 24 inches to 72 inches, the most popular height being the 36-inch and the 42-inch, which we price below. Prices on other heights quoted on application. Send for special booklet giving full description of Acme Fence.

36-inch high Acme Lawn Fence....List price per ft., 18c. Retail, 14c.
42-inch high Acme Lawn Fence....List price per ft., 20c. Retail, 16c.



Acme Flower Bed Guard

This is 12 inches high. Every sixth upright projects into the ground 6 inches. Price, per foot, 10c.



Acme Lawn Gates

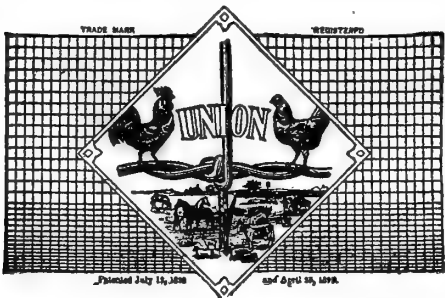
Width of Gate, including Hinges and Latch, being exact distance posts should be set apart.

	3 ft.	3½ ft.	4 ft.
36 inches ...	\$3.00	\$3.25	\$3.50
42 inches ...	3.25	3.50	3.75

Price of double gates same as that of two single gates.

UNION LOCK POULTRY FENCE

The economy, adjustability and effectiveness of this fence is unexcelled. It requires no bottom or top rail, as it can be stretched up in good shape without them. On account of its construction, Union Lock Fence will stretch up over uneven ground without cutting and requires about one-half the number of posts that the ordinary poultry netting does. This is a great economy. Strand wires are two No. 29 wires twisted together and pickets are made of No. 19 wire, all galvanized.



Pickets are only 3 inches apart and the seven meshes next to the bottom are only 1¼ inches between the strand wires, making a very close fence. It is just the thing for little chicks, as the mesh at the bottom is only 1¼ in. by 3 in.

	List per roll.	Retail per roll.	Retail when cut.
10-rod rolls, 165 ft., 24 in. wide..	\$5.60	\$2.95	2¼c. per run'g ft.
10-rod rolls, 165 ft., 36 in. wide..	6.90	3.65	2¾c. per run'g ft.
10-rod rolls, 165 ft., 48 in. wide..	8.30	4.35	3¼c. per run'g ft.
10-rod rolls, 165 ft., 60 in. wide..	9.60	5.05	4c. per run'g ft.
10-rod rolls, 165 ft., 72 in. wide..	10.80	5.70	4½c. per run'g ft.
10-rod rolls, 165 ft., 84 in. wide..	12.30	6.50	5¼c. per run'g ft.

In comparing prices with ordinary poultry netting remember these bales are 15 feet longer.

DIAMOND MESH POULTRY NETTING

The wire we offer is all Nos. 19 and 20, double twist, 2-inch mesh, thoroughly galvanized after weaving. Sold in bales of 150 running feet.

No.	In. Wide.	Sq. Feet.	List Price Per Bale.	Retail Price Per Bale.	No.	In. Wide.	Sq. Feet.	List Price Per Bale.	Retail Price Per Bale.
19	12	150	\$3.75	\$.90	20	12	150	\$3.37	\$.80
19	18	225	5.62	1.35	20	18	225	5.07	1.25
19	24	300	7.50	1.80	20	24	300	6.75	1.65
19	36	450	11.25	2.70	20	36	450	10.12	2.45
19	48	600	15.00	3.60	20	48	600	13.50	3.25
19	60	750	18.75	4.50	20	60	750	16.87	4.05
19	72	900	22.50	5.40	20	72	900	20.25	4.85

Price 1c. per square foot in less than bale lots. Staples for fastening, 10c. per pound. We also carry in stock a few sizes of 1-inch mesh, as follows:

No.	In. Wide.	Sq. Feet.	List Price Per Bale.	Retail Price Per Bale.
20	24	300	\$16.50	\$3.96
20	36	450	24.75	5.95
20	48	600	33.00	7.95

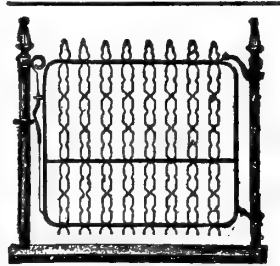


FIG. 61 GATE

This is a very attractive all steel walk gate. It is enameled black. These gates are very cheap at the prices we name.

3 ft. high, 4 ft. wide....	\$3.50
4 ft. high, 3½ ft. wide....	3.50
4 ft. high, 4 ft. wide....	4.00
5 ft. high, 3½ ft. wide....	4.50

M. M. S. POULTRY FENCING

The accompanying illustration shows the style of the M. M. S. fence. Like the Union Lock Fence, it can be stretched up in good shape without top or bottom rails.

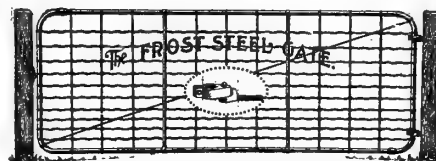
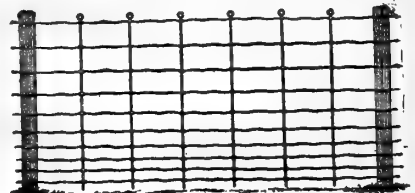
Height.	List.	Retail.
24 in.....	\$4.00	\$2.40
30 in.....	4.70	2.85
36 in.....	5.30	3.18
48 in.....	6.50	3.90
60 in.....	7.70	4.65
72 in.....	8.70	5.22
84 in.....	9.90	5.95

Prices of cut lengths:	
24 in.....	1¾c. per ft.
30 in.....	2c. per ft.
36 in.....	2¼c. per ft.
48 in.....	2¾c. per ft.
60 in.....	3¼c. per ft.
72 in.....	3¾c. per ft.
84 in.....	4¼c. per ft.



FROST WIRE FENCE

A Stay Fence of great merit. The strands are of heavy coiled spring wire and the stays are of hard wire. It can be erected, and is a very strong and durable fence. Special catalogue and prices will be mailed free on application.



FROST STEEL GATES

These gates are neat and strong. Frames are made of steel tubing, and the filling is of heavy wire.

PRICES.

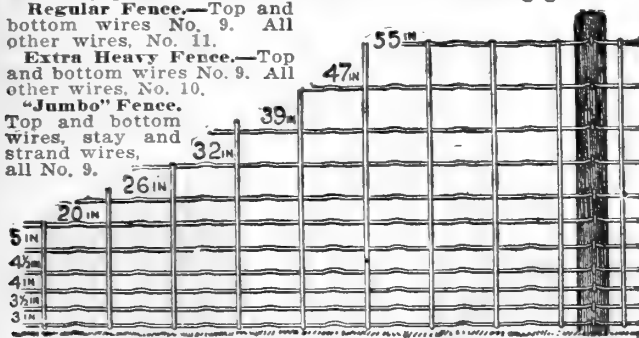
4 ft. high, 10 ft. wide..	\$5.70	4½ ft. high, 10 ft. wide..	\$5.90
4 ft. high, 12 ft. wide..	6.40	4½ ft. high, 12 ft. wide..	6.75
4 ft. high, 14 ft. wide..	7.30	4½ ft. high, 14 ft. wide..	7.50

STEEL POSTS AND RAILS

Prices on application.

"Pittsburgh" Perfect Electrically Welded Fence

The Fence with the famous "Weld that Held." Made out of a specially tested, heavily galvanized steel wire. The stays are electrically welded to the strands, and therefore the stay wires are not weakened nor the galvanizing broken by twisting around the lateral wires, and the joint is indestructible. There are no exposed ends to invite rust and no wraps to hold moisture, and on account of the electrically welded stay the tensile strength of the fence is increased to a very great extent. It will conform to rolling ground.



PRICE LIST OF REGULAR FENCE.

Style No.	Height.	No. of Strands.	Price per rod with stays 12 in. apart.		Price per rod with stays 6 in. apart.	
			List.	Retail.	List.	Retail.
5511	55 in.	11	\$.95	\$.38	\$1.25	\$.50
4710	47 in.	10	.85	.34	1.12	.45
399	39 in.	9	.76	.31	.98	.40
328	32 in.	8	.67	.27	.87	.35
267	26 in.	7	.59	.24	.75	.30
*499	49 in.	9	.82	.33	1.06	.43
*458	45 in.	8	.74	.30	.96	.39
*356	35 in.	6	.59	.24	.77	.31

Extra Heavy and Jumbo Fence quoted on application. Illustration shows spacing of all above styles except those marked (*), which are spaced as follows from bottom up:

No. 490, 4 in., 4 1/2 in., 5 in., 5 1/2 in., 6 in., 7 in., 8 in., 9 in. No. 458, 4 1/2 in., 5 in., 5 1/2 in., 6 in., 7 in., 8 in., 9 in. No. 356, 5 1/2 in., 6 in., 7 in., 8 in., 9 in. Write for catalogue.

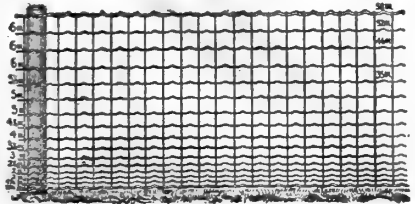
PITTSBURGH RAZORBACK HOG FENCE.—Made to meet the demand for a close mesh hog fence that will stand hard usage. Spacing is very close, being only 1 1/2 inch mesh at bottom. Made with No. 9 top and bottom wires and No. 12 intermediates; stays 12 inches apart.

Style No.	Height.	No. of Strands.	Price per rod.	
			List.	Retail.
5816	58 in.	16	\$1.18	\$.48
5215	52 in.	15	1.10	.44
4614	46 in.	14	1.03	.42
3512	35 in.	12	.87	.35

IMPROVED "PITTSBURGH PERFECT" POULTRY AND GARDEN FENCES.

Fill every requirement of a Poultry Fence, and is amply strong to keep out or fence Horses, Hogs, Cattle or Dogs.

Regular Style—Top and Bottom Wire No. 10, all other wires No. 13. **Heavy Style**—Top and bottom Wire No. 9, all other wires No. 12.



Style.	Height.	No. of Strands.	Regular.		Heavy.	
			List.	Retail.	List.	Retail.
5819	58	19	\$1.34	\$.54	\$1.72	\$.69
5218	52	18	1.26	.51	1.62	.65
4617	46	17	1.17	.47	1.51	.61

G. & T. CO.'S WOVEN WIRE STRETCHER. The best Stretcher on the market for erecting wire fence. Simple, Strong and Convenient. List, \$6.00. Retail, \$5.00.

BARB WIRE.—We have 2 point 5-inch Barb Wire and 4 point 4-inch Barb Wire. Prices on application.

Ribbon Wire, Twisted Two-Strand Wire, Plain Galvanized and Annealed Wire, Panel Wire. Prices on application.

Never Slip Stretcher



PRICE, 75c.

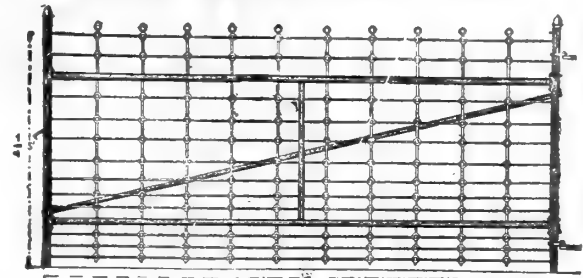


Price, 75c.

No. 1. WIRE STRETCHER

We carry in stock Standard Bale Ties and Annealed Baling Wire. Prices on application.

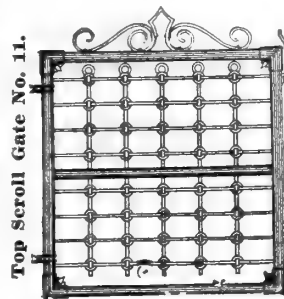
Farm and Railroad Gate No. 22



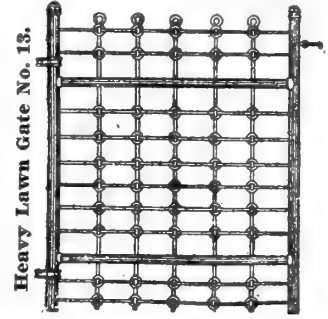
Frame 1 1/4 inches diameter, acorn tops, adjustable malleable hinges, heavy screw hooks to hang on wooden posts, hook catch, steel diagonal brace rod support. All wire work passes through the frame both ways. This gate is extra strong. List price. Retail price.

No. 22—10 feet wide, 4 feet high, each....	\$8.00	\$7.25
No. 22—12 feet wide, 4 feet high, each....	9.00	8.10
No. 22—10 feet wide, 5 feet high, each....	9.00	8.10
No. 22—12 feet wide, 5 feet high, each....	10.00	9.00

Add 4 inches to sizes of gates for allowances for Hinges and Latches.



Top Scroll Gate No. 11.



Heavy Lawn Gate No. 13.

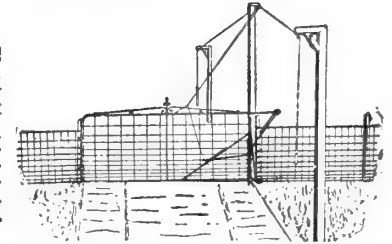
The No. 11 and No. 13 Gates as illustrated above are strong and well made. The frames are made of 1 1/2-inch Steel Tubing, and are filled with heavy wire. Fitted with malleable hinges and spring latch for wood or iron posts. Order by number and give height and width.

Height.	Width.	No. 11.		No. 13.	
		List.	Retail.	List.	Retail.
3 ft.	3 ft.	\$5.20	\$4.75	\$5.20	\$4.75
3 ft.	3 1/2 ft.	6.25	5.65	5.75	5.15
4 ft.	3 ft.	5.75	5.15	5.75	5.15
4 ft.	3 1/2 ft.	6.75	6.10	6.25	5.65
5 ft.	3 ft.	6.00	5.40	6.00	5.40
5 ft.	3 1/2 ft.	7.00	6.30	6.50	5.85

The "New Century" Automatic Gate

The most successful gate on the market. Unique in principle, easy to operate and free from springs and intricate devices. Locks automatically when closed. Elevates ten feet wide. Price, \$15.00.

Send for Special Catalogue.



GALVANIZED STEEL WIRE CLOTH

Used largely in corn-cribs to make them ratproof; also for making sieves, grain fan screens, etc. Widths 24 to 48 inches.

2x2-3x3 mesh, sq. ft., 4c.; full rolls, 3 1/2c. sq. ft. 4x4 mesh, sq. ft., 4 1/2c.; full rolls, 4c. sq. ft.

The word mesh means number of meshes to the inch. (2x2 mesh, 2 to the inch; 4x4 mesh, 4 to the inch, etc.)

Special price in roll lots 100 feet or more.

NEW UNIVERSAL GARDEN TOOLS

MATTHEWS' *New Universal* GARDEN DRILL

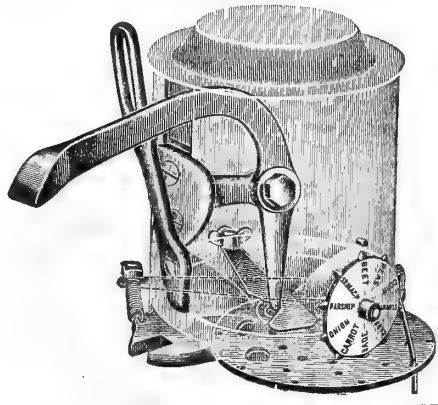
ONE OF THE STANDARD DRILLS OF AMERICA.

Simple in Construction. Neat in Design. Efficient in Operation. None Better Can Be Procured.

The indicator has the names of the various seeds plainly marked upon it. The DIAL has a separate hole for each kind of seed, which registers in the CENTRE of the hole in the bottom of seed-box. The hole in the dial may be gauged to a nicety by means of the REGULATOR, held by a thumb-screw. To lead the seed to the central opening there is provided a CORRUGATED and shouldered bottom, which admits of dropping any quantity of seed, even to a SINGLE PAPER.

List price, \$8.00. Our retail price, \$6.75.

The Seeding Device



No. 17

PATENT SEED INDICATOR USED ON ALL GENUINE DRILLS.

Seeding can be regulated to exact quantity desired.



Matthews' *New Universal* Hill and Drill Seeder No. 16

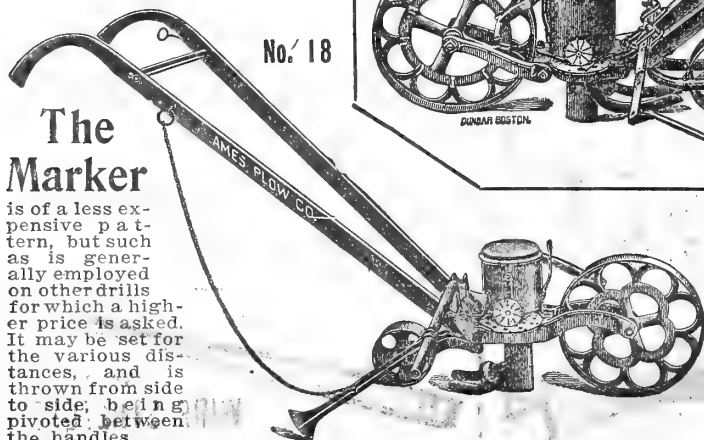
Is arranged so as to drop the seed continuously in drills or at a distance of 4, 8, 12, 16, 24 and 48 inches apart. The adjustment from drills to hills is made by one screw in attaching a brass cut-off to the agitator. The distance apart is regulated by the number of cogs on the driving wheel against which the agitator strikes. The seed cannot drop except when the hole in the bottom of seed-box is opened by the agitator striking a cog on the wheel, and it immediately closes again as the agitator drops. This saves seed, as no more need be dropped at a time than is desired, no matter what the distance may be. If this implement is wanted be sure and order the "Hill and Drill Seeder," as the regular garden drill cannot be fitted with the attachments. Our retail price, \$7.50. List price, \$9.00.

The manufacturers of this line do not make a Hill and Drill Seeder with cultivating attachments, and we would recommend as FAR PREFERABLE, one of the separate drills and a separate single wheel-hoe complete, with ALL the attachments, for which our retail price covering the two separate implements is only \$12.00.

Matthews' *New Universal* Constellation Seeder, Hoe, Cultivator, Plow, Rake and Marker

The two wheels are desirable when used as a cultivator or wheel hoe, as in this way the rows of young plants may be straddled and the cultivating done on both sides of the row at one passing. The special feature of this implement is that when used in straddle row cultivation there is no projection below the frame to interfere with plants. The attachments are—One (1) Pair Hoes, Five (5) Cultivator Teeth, One (1) Pair Rakes, One (1) Pair Plows.

List price, boxed.....\$10.50
Retail price, boxed..... \$5.00

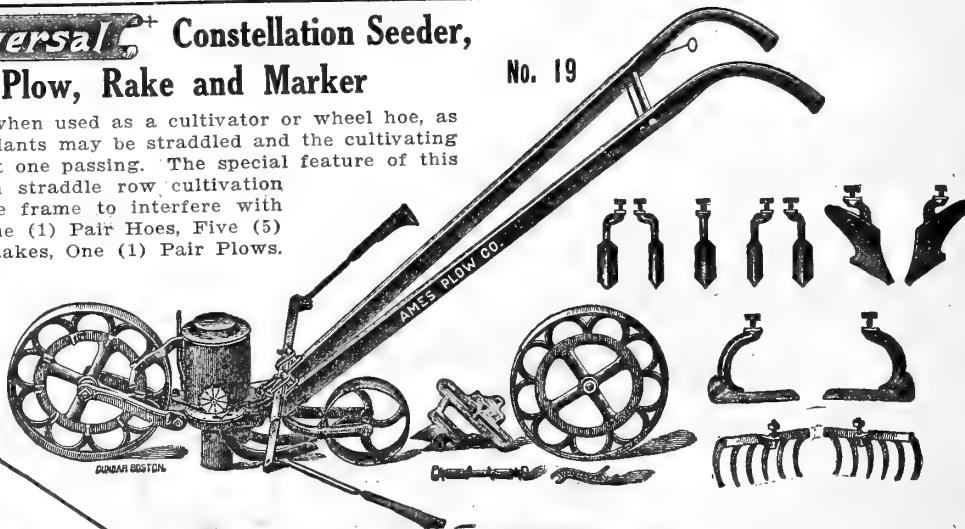


No. 18

The Marker

is of a less expensive pattern, but such as is generally employed on other drills for which a higher price is asked. It may be set for the various distances, and is thrown from side to side, being pivoted between the handles.

No. 19



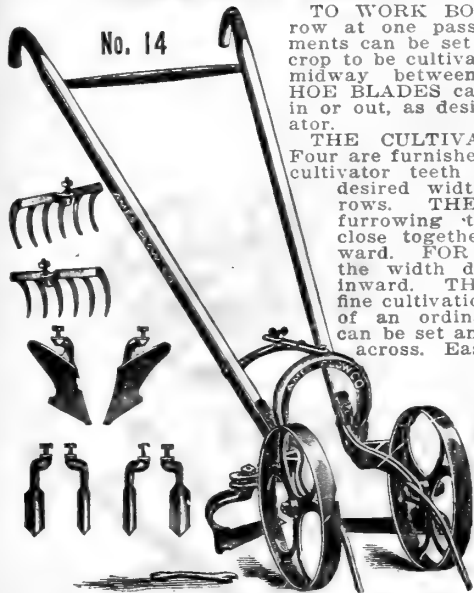
***New Universal* GemSeed Drill**

It has a new seed regulator for gauging the exact flow of seed required; seed cut-off for stopping the flow while turning at the ends of rows, and marker adjuster for marking the rows at any desired distance apart. We do not recommend it for use instead of the larger drills, but we are sure that all in want of such a drill as we represent will find this to be a very valuable implement.

Retail price, \$5.25. List price, \$6.25.

Send for Special Catalogue containing full description of all New Universal and Matthews' Tools.

New Universal Hand Double Wheel Hoe, Cultivator, Plow and Rake



TO WORK BOTH SIDES of a row at one passing, the attachments can be set to suit width of crop to be cultivated, keeping row midway between wheels. THE HOE BLADES can be set to turn in or out, as desired by the operator.

THE CULTIVATOR TEETH.—Four are furnished with each. Two cultivator teeth can be used at desired width to mark out rows. THE PLOWS.—For furrowing they can be set close together and turn outward. FOR COVERING, set the width desired, and turn inward. THE RAKES.—For fine cultivation and other uses of an ordinary rake. They can be set angling or straight across. Easily adjustable for width or depth.

THE LEAF GUARDS are to prevent wheels from injuring large spreading foliage.

- 1 Pair Hoes, 1
- Pair Plows, 1
- Pair Rakes, 1
- Pair Narrow Cultivators, 1
- Pair wide Cultivators, 1
- Pair Vine Guards.

Specially designed for working both sides of the row at one passing.

Our Retail Price, \$5.50. List Price, \$6.50.

New Universal DOUBLE WHEEL HOE WITH HOE BLADES ONLY.

Retail price, \$3.75. List price, \$4.25. No. 15.

New Universal High Arch Expansion Wheel Hoe, Cultivator, Rake and Plow

No. 26.

This is a larger implement than the Double Wheel Hoe just described, and high enough to cultivate over 20-inch plants. Can be used as a One Wheel as well as a Two Wheel. Has 5 cultivator teeth instead of 4. List, \$9.50. Retail, \$8.00.

New Universal Hand Single Wheel Hoe, Cultivator, Plow and Rake

No. 11.

As with the Double Wheel Hoe described, this can be used either between or astride the rows, although it is really intended for between-row cultivation. For straddle cultivation the wheel can be set to one side, so as to bring the row of young plants under center of frame. Later cultivation must be done between rows. The attachments are: 1 Pair Hoes, 1 Pair Rakes, 5 Cultivator Teeth, 1 Vine or Leaf Guard, 1 Pair Plows. List price, \$5.75. Retail price, \$5.00.

New Universal "FLIER" Hand Single Wheel Hoe and Plow

Retail Price...\$4.50
List Price.... 5.00

No. 12.



This implement is same as our regular Single Wheel Hoe, but at this price fewer attachments are furnished. They are: 1 Pair Hoes, 3 Cultivator Teeth, 1 Large Plow.

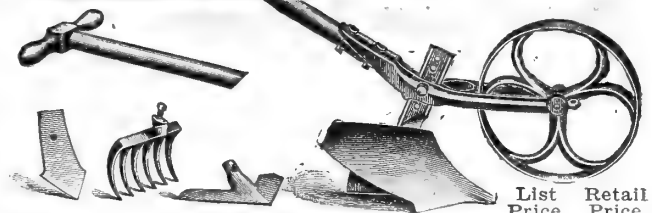
New Universal HAND SINGLE WHEEL HOE

No. 13.

With Hoe Blades Only.

Retail, \$3.00. List, \$3.25.

New Universal Wheel Plow



No. 10—Wheel Plow only.....	List Price. \$2.25	Retail Price. \$2.00
No. 112—Same with all attachments shown.....	2.75	2.40

New Universal No. 9 Draw Plow

This is the same Plow (but without wheel) as used in the NEW UNIVERSAL HAND WHEEL PLOW fitted with long handle, to be drawn instead of being pushed.

List price, \$2.00. Retail price, \$1.65.

New Universal GARDEN PLOW AND ATTACHMENTS.

No. 116, with wheel front and rear gives perfect steadiness and regulates exact depth.

No. 8, same as No. 116, but without rear wheel.

No. 116, list, \$3.75; rtl., \$3.50.
No. 8, list, \$3.25; retail, \$3.00.

Attachments on both are:
Landside Plow,
Sweep, Rake,
Double Tong'd
Cultivator.

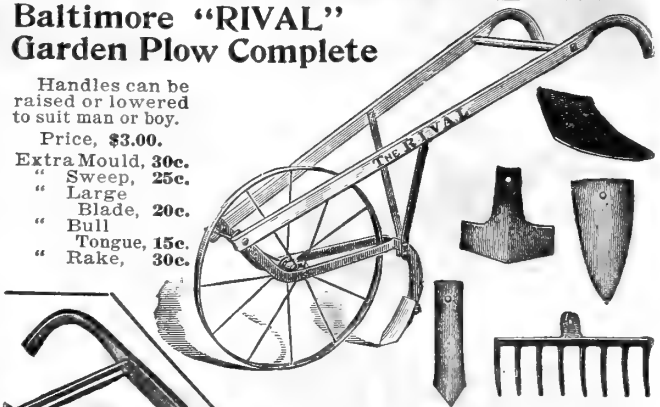


Baltimore "RIVAL" Garden Plow Complete

Handles can be raised or lowered to suit man or boy.

Price, \$3.00.

- Extra Mould, 30c.
- " Sweep, 25c.
- " Large Blade, 20c.
- " Bull
- " Tongue, 15c.
- " Rake, 30c.



Old Dominion Seed Drill

This Drill is of a type familiar to every market gardener in the country. The points that we claim are simplicity, quality of material, finish and the thoroughly satisfactory way it does its work. None better made. Try it.



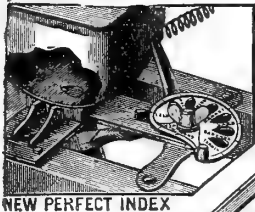
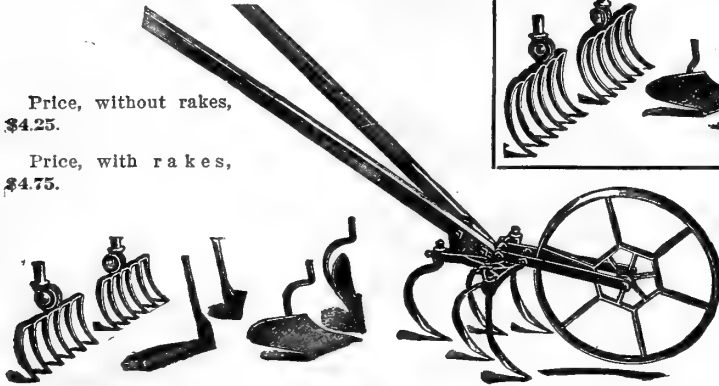
List price\$8.00
Retail price..... 7.00

The Baltimore Single Wheel Garden Cultivator

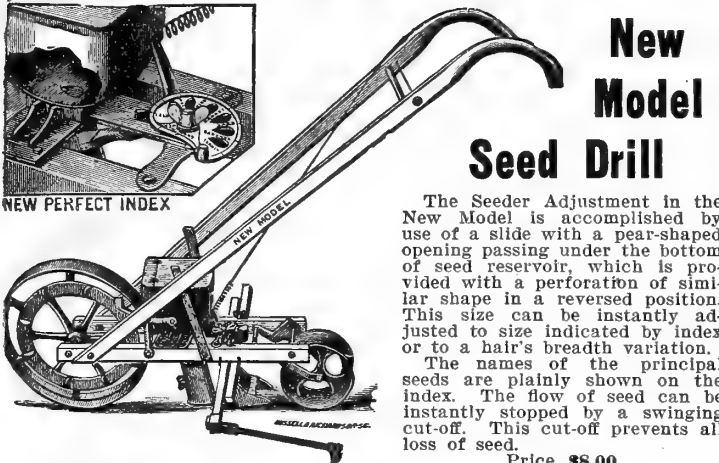
This Cultivator has an entirely new arrangement of frame which is strong, neat and compact, and with the aid of the different attachments, can be used for hilling, furrowing or covering. The hilling attachments or weed cutters can be arranged to hoe in or out and to or from the plants, and can be set at any angle desired. Wheel and handles are both adjustable.

Price, without rakes, \$4.25.

Price, with rakes, \$4.75.



NEW PERFECT INDEX



New Model Seed Drill

The Seeder Adjustment in the New Model is accomplished by use of a slide with a pear-shaped opening passing under the bottom of seed reservoir, which is provided with a perforation of similar shape in a reversed position. This size can be instantly adjusted to size indicated by index or to a half's breadth variation. The names of the principal seeds are plainly shown on the index. The flow of seed can be instantly stopped by a swinging cut-off. This cut-off prevents all loss of seed.

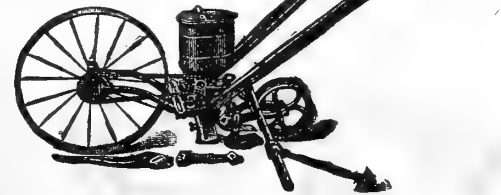
Price, \$8.00.

Iron Age Seed Drill

One of the Lightest, Strongest and Most Reliable Seed Drills on the Market.

Price, \$7.50.

No. 17. Same tool as No. 18 with the addition of the cultivating tools. Price, \$10.00.



Have You a Hot-Bed?
It is the only machine suited to sow in a hot-bed. Sows up close to the sides in very straight rows. Sows the smallest packet of seeds as well as a large bulk. Price, \$1.00.

Eureka Seeder



The Baltimore Double Wheel Garden Cultivator

This Cultivator has a new device for expanding and contracting, which permits the operator to set the machine instantly to any desired width. It is furnished with various attachments used for harrowing, furrowing and covering. Price, without rakes, \$5.50. Price, with rakes, \$6.00.



IRON AGE COMBINED DOUBLE WHEEL HILL AND DRILL SEEDER No. 6



In the No. 6 Hill and Drill Seeder is combined a drill seeder with hill dropping device, a double wheel hoe and a single wheel hoe. Will drop in hills at 4, 6, 8, 12 or 24 inches apart. \$12.00.

No. 1.

Iron Age Double Wheel Hoe

As shown in cut.

Price, \$7.00.



No. 3. Iron Age Double Wheel Hoe. Same tool as shown in cut, but with hoes only. \$3.75.

IRON AGE SINGLE WHEEL HOE

Is a steady, strong, light and easy-running tool, with attachments as shown in cut.



No. 20. Price, \$6.00.

WATER TRUCKS AND COMBINATIONS With Wood Or Steel Wheels.



Fig. 1.

22 1-2 in., Length, 24 in.; Height, 8 1-2 in. Box has tail door.

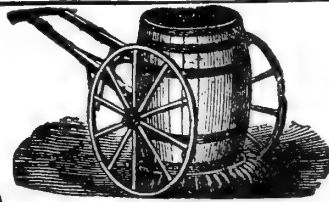


Fig. 2.

Fig. 1 shows Truck and Barrel.
 Fig. 2 shows Truck with Leaf Rack Attachment.
 Fig. 3 shows Truck and Barrel with Sprinkler Attachment.

Fig. 4 shows Truck and Box, with Barrel Detached.

DIMENSIONS: Height of Wheels 2 ft. 9 in.; Distance between Trunnions, 2 ft. 2 1-2 in.; Width Tire, Steel, 1 1-2 in., 2 1-2 in., 3 1-2 in.; Wood, 1 1-2 in., 2 1-2 in., 4 in.

Box—Inside Measure; Width. Box has tail door.

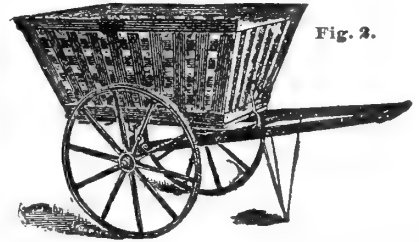


Fig. 3.

Fig. 1. This Fig. represents our Barrel Cart, to which can be attached the Brass Spray Pump. This is a convenient combination, and may be found useful in various ways, such as watering gardens, spraying fruit trees, etc.

The Barrel Cart and Pump may be ordered separately and arranged together to suit the purchaser. The Barrel Cart may be wheeled about when filled with water, to supply sprinkling cans for watering flowers and vegetable gardens. When the running-gear or truck is ordered without barrel the trunnions may easily be fastened to any good water-tight barrel by any person with ordinary mechanical ability.

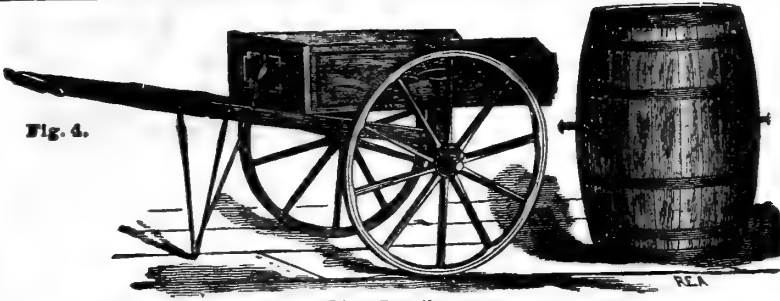


Fig. 4.

THIS shows our Sprinkling Cart, which is indispensable about parks, cemeteries and country seats for watering roads, drives, walks, lawns, etc. The wheels have wide tires and the whole outfit is well made. It can also be used as a Tank Cart for carrying water, spraying trees and removing matter from cess-pools, vaults, etc. Cart for spraying trees and crops. It is substantially made throughout. There is a valve in the bottom of tank, operated by lever, within easy reach of driver.

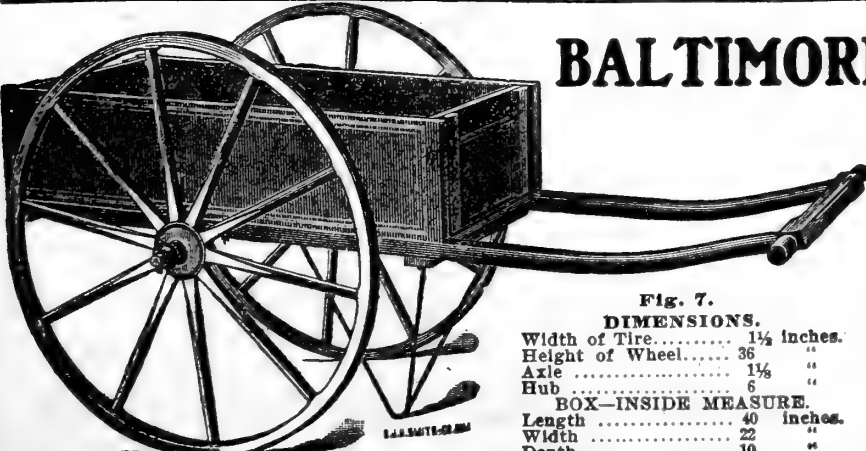
	List.	Retail.
Water Truck with 1 1/2" tires....	\$10.00	\$6.00
Water Truck and Barrel.....	15.00	8.50
Water Truck and Box.....	15.00	8.50
Water Truck, Barrel and Box....	20.00	11.50
Sprinkling Attachment.....	5.00	3.25
Leaf Racks.....	8.00	5.00
New Barrel.....	5.00	3.00
Box.....	5.00	3.00
Trunnions—List, per pair, 75c. Retail, per pair, 50c.		
For 2 1/2-inch Tires on Trucks add to the above price—List, \$1.50. Retail, \$1.00.		
For 3 1/2-inch Tires on Trucks add to the above price—List, \$3.00. Retail, \$2.00.		

	List.	Retail.
Regular Tire, wood or steel, each.....	\$3.50	\$2.25
2 1/2-inch Tire, wood or steel, each.....	4.50	2.75
4-inch Tire, wood, each.....	5.00	3.00
3 1/2-inch Tire, steel, each.....	5.00	3.00



Fig. 6.

Baltimore Lawn and Street Sprinkler.
 List \$160.00. Retail \$85.00.



BALTIMORE PUSH CART.

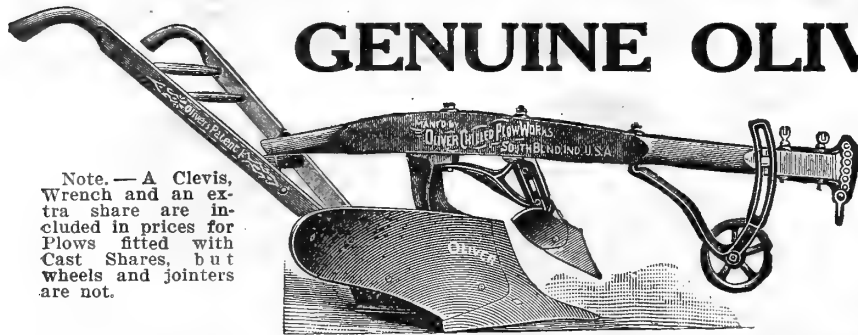
Fig. 7.

DIMENSIONS.	
Width of Tire.....	1 1/2 inches.
Height of Wheel.....	36 "
Axle.....	1 1/4 "
Hub.....	6 "
BOX—INSIDE MEASURE.	
Length.....	40 inches.
Width.....	22 "
Depth.....	10 "

For the merchant, printer, farmer, etc., to have one of these carts on his premises it will be found a most useful vehicle. There are so many purposes for which they can be employed—carrying bundles, printers' forms, farmers' tools and light implements, etc. It is never out of place, and always ready to pick up at short notice. They are nicely finished; higher wheels, better ironed and altogether superior to anything of its kind on the market. There is now an immense demand for these carts, but notwithstanding we have placed the price low.

PRICES.	
Retail.....	\$7.00
List.....	12.50
Extra wheels, each—List, \$5.00. Retail, \$3.00.	

GENUINE OLIVER PLOWS



Note.—A Clevis, Wrench and an extra share are included in prices for Plows fitted with Cast Shares, but wheels and jointers are not.

THE OLIVER PLOW was introduced in this section more than thirty-five years ago and is still the standard. This fact can be testified to by all of the farmers who have used them.

The word OLIVER is a synonym for excellence.

In every catalogue we have ever issued has been advertised the OLIVER PLOW.

PLOWS—PRICES.

- No. A-1 and A-2, Right Hand only.....\$4.75
- WOOD BEAM—RIGHT AND LEFT HAND.....
- No. B, Right Hand only.....\$6.50
- No. B, Vineyard, Right Hand only.....8.00
- No. 10-0.....7.50
- No. 13.....9.00
- No. 19.....9.50
- No. 20.....10.00
- No. E 1.....10.50
- No. 40.....11.00
- No. 40, XX.....11.50
- No. 22, Chilled, Iron Beam, Right and Left Hand.....12.00
- No. 3 X, Chilled, Iron Beam, Right Hand only.....10.00

OLIVER COMBINATION PLOWS

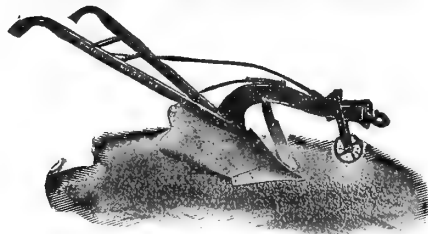
WOOD BEAM—RIGHT AND LEFT HAND.

- No. 120—All Chilled.....\$10.50
- No. 140—All Chilled.....11.00

OLIVER SPECIAL PLOWS

- No. 1—Road and Grading Plow, all steel, with Standing Coultter and Gauge Iron or Wheel.....\$30.00
- The Oliver Subsoiler, best of its kind, with Wheel.....14.50

Oliver Hillside Plows



Made with steel and chilled mouldboard and cast point, and is well equipped in all respects for first-class work.

In addition to its excellent qualities as a hillside Plow, it also works admirably in level ground, and having been thoroughly tried, we do not hesitate to recommend it highly.

- No. 52, Steel Mouldboard, Cast Share, Wood Beam, One Horse.....\$10.00
- No. 53 1/2, Chilled Mouldboard, Cast Share, Two Horse.....9.50
- No. 57, Steel Mouldboard, Cast Share, Wood Beam, Two Horse.....12.50
- No. 524, Iron Beam, Chilled Mouldboard, Cast Share, Shifting Clevis, Two Horse.....10.00

Oliver Steel Beam Plows



All the strong features of the Oliver Wood Beam are incorporated in the Steel Beam Plow. Light draft is one of its strong points. Scouring in all kinds of soil is another equally valuable requisite.

We cannot too highly recommend the Oliver Steel Beam Plow. It makes friends wherever sold.

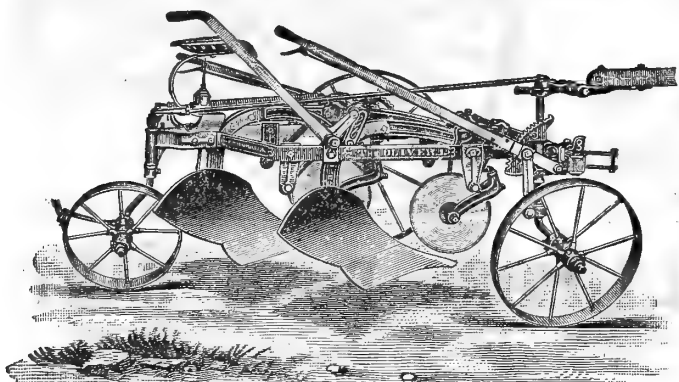
Shares, lands and moulds, same price as wood beam. Shares and moulds are interchangeable.

- Prices: No. B, R. H., \$7.50. No. 10, R. & L., \$8.50. No. 13, R. & L., \$9.75. No. 19, R. & L., \$10.50. No. 20, R. & L., \$11.00. No. 40, \$12.00.

OLIVER SULKY PLOW No. 11

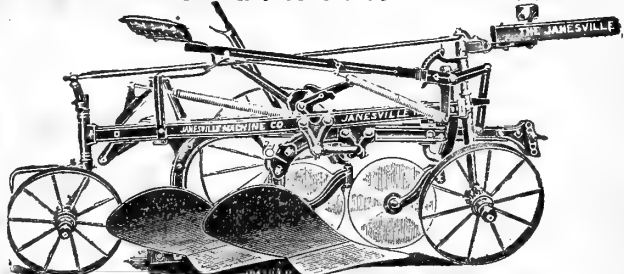
Light, durable and effective. Simple and novel device for turning. Plows the most difficult soils and does it well. Can be used with or without tongue. Depth easily regulated. Turns square corners without lifting out of ground. Made in both right and left hand. No. 11 Sulky Plow, fitted with No. 40 bottom, tongue, neck yoke, three-horse evener, jointer and weed hook. List, \$47.00. Retail.....\$40.00
If fitted with Rolling Coultter instead of jointer, add to price.....3.00
For special Four-Horse Evener, add.....1.00
With all bottoms fitted with cast shares an extra share is included in price.

OLIVER No. 1 GANG PLOW



PloWS a uniform depth in uneven ground. Is raised or lowered with little or no exertion. Is adapted to any soil and every condition of plowing. Turns to the right or left while plow bottoms are in the ground. Can be backed and handled as easily as a wagon. Is light in draft and perfect in work. In opening a land a square and level furrow is turned. Wheels are large and the plow runs steadier in consequence. Is fitted with dust and sand proof boxes and caps. PloWS two to ten inches in depth, as desired, at will of operator. CAN BE USED WITH OR WITHOUT LANDSIDE. Fitted with Rolling Coultter. List, \$85.00. Retail, \$65.00.

JANESVILLE GANG PLOW No. 2 With Two 12-Inch Bottoms, \$65.00.



Has all the points of the latest, up-to-date Gang Plow—spring balance features, ease of handling, foot-lever-horse list, extreme flexibility, self-leveling device, furrow wheel connection, light draft. Beams are adjustable to be set to turn 12, 13 or 14-inch furrows.

The methods of controlling the bottoms when they enter and leave the furrow give them the same action found in a walking plow. The points of this Gang Plow always enter and leave the furrow first. Thus the Janesville bottoms dip point first into the ground, and on reaching depth wanted automatically level themselves. Without this self-leveling device it is impossible to get these perfect walking plow principles.

There are a number of other excellent devices on this plow which altogether go to make it one of the most up-to-date and satisfying implements in use. \$65.00.

JANESVILLE SULKY PLOW, One 12-Inch Bottom, \$45.00.

Similar to the above Janesville Gang Plow, but has only one bottom. One of the most up-to-date plows of the kind on the market. For further particulars send for illustrated catalogue fully describing these goods.

OLIVER PLOW REPAIRS

MOULDBOARDS.

No. A-1 & A-2	\$1.35	No. 40 XX	\$3.50
B. & B. Vin.	1.85	E	3.25
10-0	2.25	3 X	3.25
13 & 13 Vin.	2.50	98	3.00
19	2.75	99	3.25
20	3.00	119	2.75
22	3.25	120	3.00
40	3.25	140	3.25

LANDSIDES.

No. A	\$.45	No. 40 & 40 XX	\$.85
B. & B. Vin.	.60	E	.85
10-0	.70	98	.85
13 & 13 Vin.	.75	99	.85
19	.85	119	.85
20	.85	120	.85
22	.85	140	.85
3 X	.85		

HANDLE BRACES.

No. A	\$.20
No. B-10-13-13 Vineyard, B. Vin	.35
All other Handle Braces	.60

BEAMS.

No. A-B-B Vineyard and 10	\$1.15
No. 40 XX	1.75
All other numbers, Wood	1.50
No. 22, Iron	4.25

WOOD BEAM CLEVICES.

Marked "A" for One-Horse Plows, Wood Beam	\$.20
Marked "B" for Two-Horse Plows, Wood Beam	.30
Marked "D" for Three-Horse Plows	.50
Shackles, Twisted	.10
Wrenches	10c., 15c. and
Guide Pins	.05
Shackle Pins	.05
Links, Two-Horse	.05
Rings, One-Horse	.05

IRON AND STEEL BEAM CLEVICES.

Marked "2" for B, 10 and 13 Plows	\$.60
Marked "3" for 19 and 20 Plows	.60
Marked "4" for 40 Plows	.75

HANGING COULTERS.

All Numbers, complete two-horse, except 7-L and 60	\$2.00
Holder, same as for jointers	1.00

STANDARDS.

No. A	\$1.35	No. 40 XX	\$2.75
B	1.65	40 XX	3.25
B. Vin.	2.25	E	2.75
10-0	2.25	119	2.75
13	2.50	120	2.75
19	2.50	140	3.00
20	2.50		

HANDLES.

Per Pair and Single.

All numbers, per pair, loose	\$1.10
All numbers, single, each	.55
Rounds, per pair	.10
L. S. Handle Plates	.10

Complete—Per Set.

No. A-B-10-0	\$1.35
No. 22, complete, less rod	1.25
No. 13, complete	1.50
No. B Vineyard	1.90
No. 98-99-119-120 and 140	1.55
No. 113	1.60
No. 19-20-E, 40 and 40 XX	1.75

SHARES.

Numbers.	Solid Cutter Shares.	Solid Plain Shares.	Cutter Oliver Slip Nose Shares.	Plain Oliver Slip Nose Shares.	Chilled Reversible Wings.	Chilled Reversible Slips.
A	22	20	25	25	25	8
B	25	22	30	30	30	10
B Vin	22	22	30	30	30	10
10-0	25	25	35	35	35	10
13	30	30	40	40	40	10
19	30	30	40	40	40	10
20	35	35	45	45	45	10
22	55	50	55	55	55	10
3-X	40	40	50	50	50	10
40	40	40	50	50	50	10
40-XX	50	50	50	50	50	10
E	40	40	50	50	50	10
98	55	40	40	40	27	18
99	55	40	40	40	27	18
119	45	45	45	45	33	22
120	45	45	45	45	33	22
140	45	45	45	45	32	22

ROLLING COULTERS.

11-in., for one-horse plows, complete	\$2.50
13-in., for two or three horse plows, complete	3.00

JOINTERS.

Decidedly the most important of all plow attachments, and can be used on most of our plows. The plowman who once uses a jointer will never want to do without it.

No. D—Chilled, for one-horse plows	\$1.50
No. 2—For two and three horse plows	2.00
Jointer Points, chilled, all numbers	.15
Jointer mouldboards	.35
One-horse jointer holders	.75
Two-horse jointer holders	1.00
One-horse jointer standards	.50
Two-horse jointer standards	.75

Note.—In ordering, say whether for wood or steel beam, right or left hand plows.

COMBINATION PLOW REPAIRS.

Numbers.	Mould-board Lugs.	Handle Lugs.	Mould-board and Landside Braces.	Shims.	Levers.	Springs.	Landside Plates.
98	20c.	20c.	50c.	20c.	25c.	5c.	5c.
99	20c.	20c.	50c.	20c.	25c.	5c.	5c.
119	20c.	20c.	40c.	20c.	25c.	5c.	5c.
120	20c.	20c.	40c.	20c.	25c.	5c.	5c.
140	20c.	20c.	40c.	20c.	25c.	5c.	5c.
3X	20c.	20c.	40c.	20c.	25c.	5c.	5c.

HILLSIDE PLOW REPAIRS.

Plow Nos.	Chilled Mould-board.	Steel Mould-board.	Stand-ards.	Land-sides.	Cast Shares.	Set Handles.	Beams.	Cleives.	Wrenches.	Wheels.	Jointers.
52	2.75	\$3.00	\$.65	\$.50	\$1.75	\$1.00	\$.20	\$.15	\$.75	1.00	2.00
53 1/2	3.25	2.75	.75	.40	1.75	1.00	.35	.20	1.00	1.00	2.00
57	3.25	2.75	.75	.55	2.00	1.00	.35	.20	1.00	1.00	2.00
58	2.50	4.00	2.25	.60	.60	1.25	4.00	.25	.20	1.00	2.00

BOLTS.

For shares, mouldboards and landsides, jointer and coulters standard No. 5, end of handle brace, each. \$.03

For jointer and coulters holder, No. 6, wheel standards, straight, end of beam, wheel hub, No. 14-A clevis bolts, Nos. 20 and 40 steel beam and landside bolts, No. 99 S. B. jointer holder bolts, each. \$.05

For all standards and beams, spreading bottom of handles, Nos. 140 and 125 shin bolts, No. 40 S. B. jointer holder to block bolt, steel set-screws, all sizes, No. 99 S. B. standard bolts, 9-16x2 1/4, each. \$.07

Wheel hook bolts. \$.10

Cast Washers Are Not Included in Prices for Bolts.

WHEELS.

Straight standard, one-horse, complete	\$.75	Standards, two-horse, all kinds	\$.50
Brace, standard, two horse, complete	1.00	Wheels only, one-horse	.40
Standards, one-horse, straight	.40	Wheels only, two-horse	.50
		Hubs	.10
		Center pins or hub bolts	.05

Note.—In ordering wheels, say if for right or left hand wood or steel beam plows.

All Polished Points each, add extra 10 cents. Non-Reversible Shares and Slips same as Reversible. Bowers' Slips same as other slips.

Where blank spaces occur parts are not made, hence prices are not given.

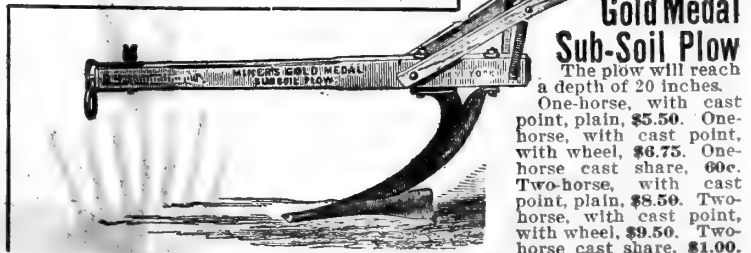
Other parts not enumerated, prices furnished on application.

Note.—A clevis and wrench are included in the foregoing prices, also an extra share is included in prices of all plows fitted with cast shares. Wheels and jointers are not included.



OLD DOMINION GRUB PLOW

It is peculiarly adapted to newly cleared ground that is encumbered with growth of hazel or other bushes. All wearing parts are of best steel, and it is so strongly built that it will withstand the hardest usage. It is the favorite plow of its class. It is built in right hand only, and cuts about 7 inches. If you ever have a demand for a new ground plow, you should try this one.

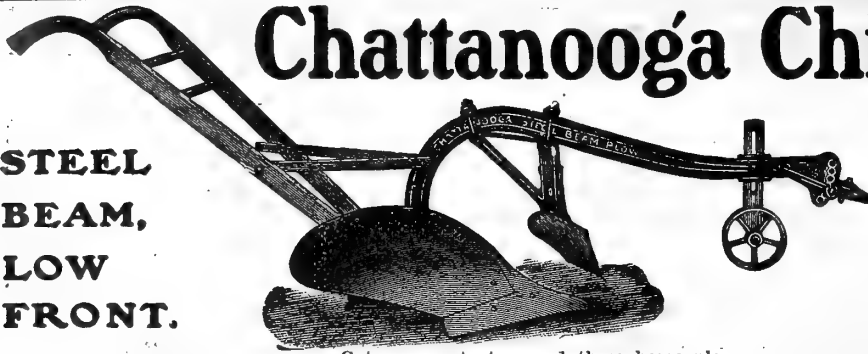


Gold Medal Sub-Soil Plow

The plow will reach a depth of 20 inches. One-horse, with cast point, plain, \$5.50. One-horse, with cast point, with wheel, \$6.75. One-horse cast share, 60c. Two-horse, with cast point, plain, \$8.50. Two-horse, with cast point, with wheel, \$9.50. Two-horse cast share, \$1.00.

Chattanooga Chilled Plows.

**STEEL
BEAM,
LOW
FRONT.**



Cut represents two and three horse plow.

Points of Merit: 1st. Low front, similar to Steel Pattern Plows; will not collect trash. 2d. Handle not bolted to mould, but to standard and brace that is attached to beam, thus preventing breakage of many moulds. 3d. Brace or rod between landside and mould, giving additional strength where it is most needed, making plow absolutely rigid. 4th. Special bolts which will not turn and can be readily taken out. All the base bolts are alike and interchangeable; only one kind necessary to keep on hand. 5th. Points are fastened on with two bolts; never fails; gives satisfaction.

Prices Chattanooga Plows and Extras

Nos.	Capacity.	Wt., lbs.	Price.	Shares, Plain.	Stony Ground or Sod Cutter Shares.	Shares, Cutter.	Shares, Slip Nose.	Slips.	Landsides.	Mouldboards.	Steel Beams.	Wood Beams.	Handles with Braces, Per Set.	Standards.
62 1-Horse, Wood Beam.....	5x9	55	\$4.25	..	..	..	..	..	..	..	1.00	..	..	..
62 1-Horse, Steel Beam.....	5x9	65	5.25	.20	..	..	.30	.08	.45	1.50	2.00	..	2.00	1.35
72 1-Horse, Steel Beam.....	5x9	70	5.75	..	..	..	.32	.08	.45	1.50	2.00	..	2.00	1.35
63 Very Light 2-Horse, Steel Beam...	8x10	100	8.50	..	.30	.25	.35	.10	.70	2.25	2.50	..	2.00	2.25
64 Light, 2-Horse, Steel Beam.....	9x11	120	10.00	..	.40	.30	.40	.10	.85	2.75	3.00	..	2.40	2.50
65 Medium, 2-Horse, Steel Beam.....	10x12	125	11.00	..	.40	.35	.45	.10	.85	3.00	3.00	..	2.40	2.50
66 Heavy, 2-Horse, Steel Beam.....	12x14	150	12.00	..	.40	.40	.50	.10	.85	3.25	3.50	..	2.40	2.75

Rolling Coulters, complete, \$3.00; Wheels, complete, \$1.00; Jointers, complete, \$2.00; Bolts for Shares, Landsides, Moulds, 3c.; Rear Beam Bolts on 1-Horse Plows, 5c. All other Beam Bolts, 10c.

CHATTANOOGA ONE-HORSE PLOWS

The one-horse plows as priced below are a little different from design shown in cut. The No. 72 is the factory's latest pattern.

PRICES:

No. 62—Wood Beam..... \$4.25
No. 62—Steel Beam..... 5.25
No. 72—Steel Beam..... 5.75

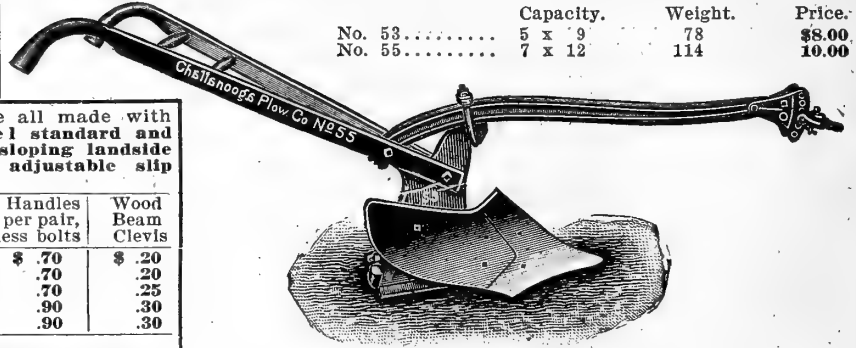
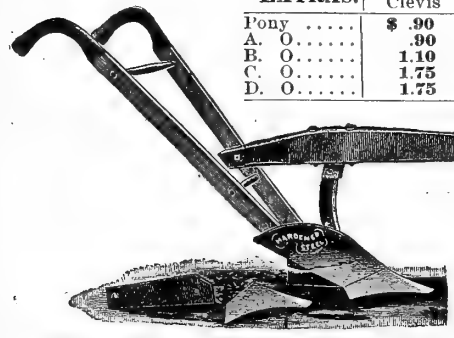
Chattanooga Reversible Hillside Plows

Steel beam only, 2-horse, with chilled or steel mouldboard.

CLIMAX STEEL PLOWS

CLIMAX EXTRAS.	Points	Lands	Moulds
Pony.....	\$.28	\$.15	\$.50
A. O.....	.36	.18	.60
B. O.....	.45	.18	.75
C. O.....	.55	.25	.90
D. O.....	.65	.25	1.10

CLIMAX EXTRAS.	Beams with Clevis	Handles per pair, less bolts	Wood Beam Clevis
Pony.....	\$.90	\$.70	\$.20
A. O.....	.90	.70	.20
B. O.....	1.10	.70	.25
C. O.....	1.75	.90	.30
D. O.....	1.75	.90	.30



	Capacity.	Weight.	Price.
No. 53.....	5 x 9	78	\$8.00
No. 55.....	7 x 12	114	10.00

Are all made with steel standard and cap, sloping landside and adjustable slip heel.

PONY.—Light, 1-horse, 7-in. cut, wood beam; very popular. Price, with extra steel point, weight 37 lbs., \$2.50. **A. O.**—1-horse, 8-in. cut, wood beam. Price, with extra steel point, weight 41 lbs., \$3.00.

B. O.—1-horse or light 2-horse, 9-in. cut, wood beam. Designed for either stubble or light sod, doing both kinds of work in the most satisfactory manner; very light draft. Price, with extra steel point, weight 43 lbs., \$3.50. **C. O.**—2-horse, 10-in. cut, wood beam. Price, with extra steel point, weight 63 lbs., \$4.75. **D. O.**—2-horse, 11-in. cut, wood beam; it turns its furrow slice perfectly. Price, with extra steel point, weight 66 lbs., \$5.50.

Combination Potato Digger

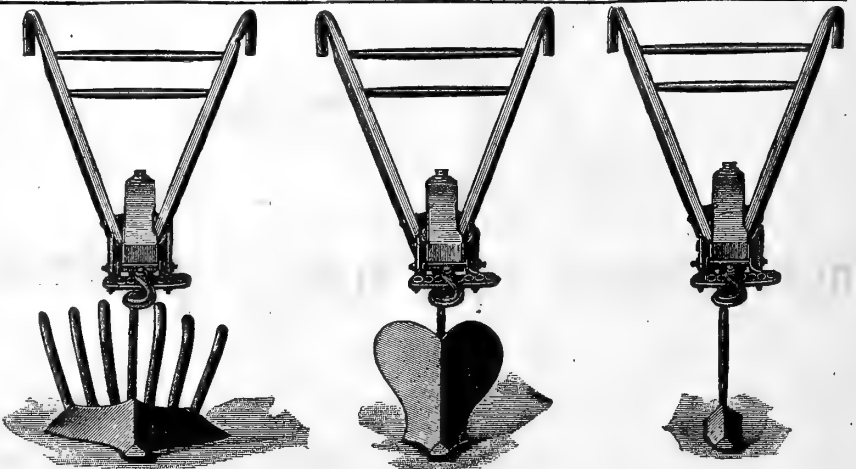
Subsoil Plow and Double Mouldboard Plow
FOR TWO OR THREE HORSES.

Each plow is in itself a perfect tool. The change from one plow to another can be made in a few minutes. The subsoil plow should always be used with a wheel.

The standard is made of malleable iron, 6½ inches wide at the narrowest point and firmly bolted to the beam. The double mould and points and digger mould are made of chilled cast iron, polished, and digger fingers of wrought iron. Altogether a very strong and serviceable implement.

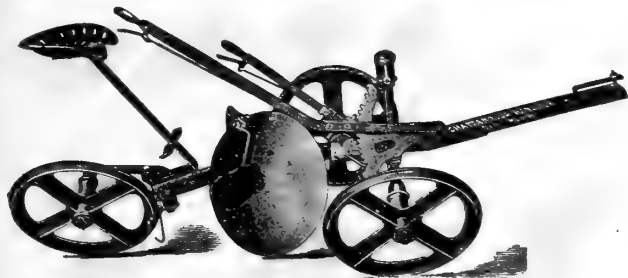
OUR SPECIAL PRICES.

Subsoil Plow, plain.....	\$5.00
Subsoil Plow, with wheel.....	6.00
Double Mould for same, 12 inch.....	1.00
Potato-Digging Attachment for same.....	2.00
Same with Steel Beam, add.....	



THE CHATTANOOGA-HANCOCK DISC PLOWS

FOR TWO, THREE AND FOUR HORSES



THE SINGLE DISC PLOW.

It handles more cubic inches of soil with less draft than any other plow made; it turns under stalks, trash and weeds completely; it breaks up "hard pan" and pulverizes the soil.

It leaves the ground at bottom of furrow porous and natural; it prepares the soil to withstand either a wet or dry season; it insures better crops than any other method of plowing.

It is so simple in design, so few in parts and so perfect in construction that anyone can operate it.

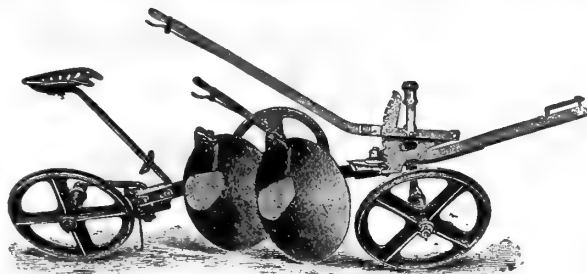
It is not a sod plow; it is a pulverizer. You cannot pulverize sod. Everywhere else it is all right.

Single Disc, with double and triple trees, price.....\$45.00
Double Disc, double and triple trees, price..... 60.00

Weight, single disc.....600 pounds.
Weight, double disc.....750 pounds.

THE FIRST CUT SHOWS THE SINGLE DISC.

THE SECOND, THE DOUBLE DISC.



THE DOUBLE DISC PLOW.

What is said about the single disc pertains to the double. It is only a matter of number of horses. If 100 pounds be added to the draft of the single it will cover the double. It will be seen the difference in draft is comparatively slight.

We guarantee our Disc Plow to do good work, not only in hard, dry and sticky ground, but to do good work in any fallow ground, either clean or trashy; in short, to be good anywhere, at any time, except turf land, and when plowing can be done.

DISC PLOW EXTRAS

In ordering extras always be sure to give name or number, or send the piece to be duplicated or a correct drawing. Attention to this seemingly small matter will avoid delay.

	Each.
Double disc attachment for single disc plow.....	\$16.50
Nos. 1 and 2 discs.....	3.00
No. D 17 scraper blade.....	.50
No. D 95 scraper, complete.....	1.00
No. D 116 scraper, standard.....	.50
No. D 119 scraper arm.....	.50
No. D 90 L. H. lever, complete.....	1.25
No. D 92 R. H. lever, complete, O. S.....	1.50
No. D 94 R. H. lever, complete, N. S.....	1.50
Disc bolt, with nut.....	.30
No. D 113 disc bolt nut.....	.10
Disc box bolt.....	.10
No. D 101 disc box.....	1.50
No. D 102 disc holder or journal.....	1.50
No. D 143 tongue bracket, old style.....	1.00
No. D 144 R. H. quadrant, old style.....	1.00
No. D 130 hub washer, outside.....	.10
No. D 127 wedge.....	.25
No. D 137 malleable wrench, O. S.....	.15
No. D 138 malleable wrench, O. S.....	.25

Other extras not named on this list can be furnished on application. Do not keep them in stock.

Chattanooga Reversible Disc Plow



The "Chattanooga" is the only successful Reversible Disc Plow built. On steep hillside, where a team can walk and draw a plow, it works perfectly. The combination of features in The Chattanooga Reversible make it the most valuable of all Disc Plows. It can be used right or left hand, plowing around the land, or Reversible, throwing furrows all one way. Will plow between terraces without leaving a water-furrow.

Will do good work, not only in hard, dry and sticky ground, but will do good work in any fallow ground, either clean or trashy, on hillsides or level land; in short, will be good anywhere, at any time, when plowing can be done, except in sod land. We warrant against breakage for twelve months caused by defects in material or workmanship. \$40.00

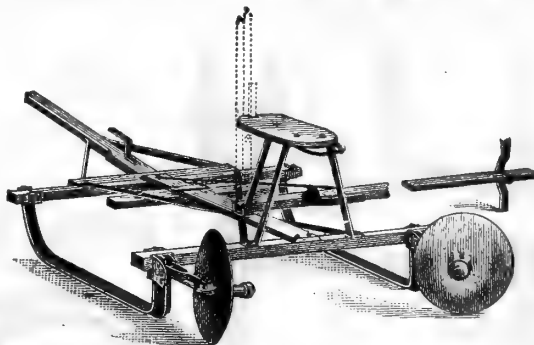
YORK IMPROVED PLOW TRUCK



The great advantage of this Truck is its adjustability to any size or kind of beam and instantly to rocky or uneven land. By use of lever depth of furrow can be changed without stopping the team. Both stems or pivots are corrugated, as well as clamps which hold them. All parts of the attachment are malleable iron or steel, except wheels, which are made of cast iron. A boy can plow with this attachment as well as a man. Price, \$9.00.

ment are malleable iron or steel, except wheels, which are made of cast iron. A boy can plow with this attachment as well as a man. Price, \$9.00.

DARNELL'S IMPROVED PATENT FURROWER AND MARKER



Strong, light and durable. A half-dozen tools in one. Runs steadily and cannot be choked. Adjustable throughout. Broad runners of wrought T-angle iron with rib to prevent sliding on side hill. Revolving discs or furrows 15 inches in diameter, with chilled hub and steel axle. Shipping weight, 140 pounds.

Price.....\$20.00
Neck Yoke and Whiffle Trees..... 2.50

THE HAMPTON CAST PLOWS

GENUINE FARMERS' FRIEND PLOW

No. ½	\$2.75	No. 8 R. and L., with rod.	\$6.00
No. 5	2.75	No. 9 R. and L., with clevis	5.75
No. 7 R.	4.25	No. 1 Hillside	4.00
No. 7 L.	4.75	No. 2 Hillside	5.25
No. 7 ½ R.	4.75	No. 3 Hillside	5.50
No. 8 R and L., with clevis.	5.50	Plain Castings, per lb.,	6c.

"Boy" Dixie Plow

"Boy" Dixie	\$2.25
No. X	2.55
No. I	2.75
No. 2	5.60
No. II	4.35

Girl Champion Plow

Plain Casting, per lb.,	5c.
No. "Girl"	\$3.25
No. A	3.50
Nos. AA and 2	3.75



Hampton No. 1 C or Jersey and Attachments

With every Hampton No. 1 C Plow is sent three extra moulds and one extra share and wrench, as follows:
 No. 1 B-Mould. A regular one-horse mouldboard used on all regular No. 1 plows.
 Cabbage Mould—Smaller than No. 1 B—Particularly adapted to the second cultivation of all crops.
 Truck-Mould—A small mouldboard suitable for the early cultivation of all truck.

All of above are included in the price	\$4.25
Fig. 7 in cut—Cutter or sod land point	.60
Fig. 8 in cut—Potato-digging attachment	.90
Fig. 6—Double mould	2.50

HAMPTON BOY PLOW.

Price, with truck and mouldboard, wrench and point, \$3.00
HAMPTON PLOW, No. 1 REGULAR.
 This style is similar to the Boy, but larger. Attachments are: Truck mouldboard, point and wrench.

HAMPTON PLOW No. 5.

This is a medium 2-horse plow, very light draft, and scours thoroughly. Front wheel and jointers furnished when desired extra.
 Price, plain plow \$6.00
 Other castings on all Hampton Plows, 5c. lb.
Liberal Discount to the Trade.

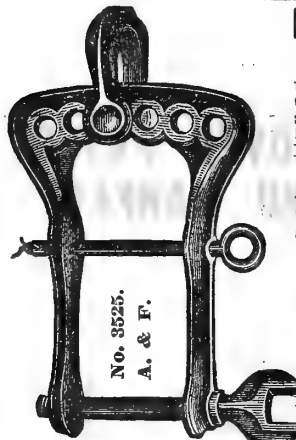
Minor & Horton High Standard Plows

No. 18	\$2.75	No. 18 ½	\$3.00	Plain Casting,
No. 19	3.25	No. 19 ½	4.25	per lb., 5c.

PLOW HANDLES—Not Finished

1 ½ x 2 inches, 5 feet long, per pair	\$.30
1 ½ x 2 ¼ inches, 5 feet long, per pair	.35
1 ½ x 2 ½ inches, 5 ½ feet long, per pair	.40
1 ½ x 2 ¾ inches, 6 feet long, per pair	.45
1 ½ x 3 inches, 7 feet long, per pair	.50
1 ½ x 3 ½ inches, 5 feet long, per pair	.55
1 ½ x 2 ½ inches, 5 ½ feet long	.60
1 ½ x 2 inches, Side Bend	.33

MALLEABLE CLEVISES

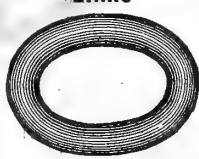


No. 3525 A.
 2 ¼ in. beam; 2 ¾ in. from center of wrench to center of pin; 6 ¾ in. extreme length; 6 holes; shackle and pin. For use on No. 5 F. F. and similar cast plows.
 Price 20c.

No. 3525 F.
 2 ½ in. beam; 3 ½ in. from center of wrench to center of pin; 7 ½ in. extreme length; 6 holes; shackle and pin. For use on No. 7 F. F. and similar cast plows.
 Price 25c.

No. 3500.
 2 in. beam; 5 ¾ in. extreme length; 3 in. from center of wrench to end of beam. Patent wrench.
 For use on Girl Champion and similar class plows. Price, 15c.

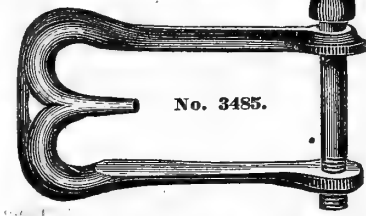
MALLEABLE PLOW LINKS



No. 3645.
 3 in. long, 2 ½ in. wide.
 Price 5c.

No. 3485.

2 in. beam; 5 ½ in. extreme length; 3 in. from center of wrench to end of beam. Patent wrench.
 For use on "Boy" Dixie and similar cast plows.
 Price 15c.



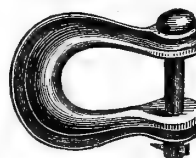
No. 3515 A.

2 in. beam; 3 ½ in. from center of wrench to center of pin; 6 ¾ in. extreme length. For use on Hampton Boy and Hampton No. 1 Plows 20c.

No. 3490.

2 in. beam; 6 ½ in. extreme length; 3 ¾ in. from center of wrench to end of beam. Patent wrench.

END CLEVIS, OR SHACKLE



No. 3355 B.
 ¾ in. inside measure, 3 in. extreme length.
 Price 8c.

For use on Southern cast plows.

Price 15c.



No. 3490.

REPAIRS FOR WIARD PLOWS

Nos.	Kind.	No. Horse.	Price.		
			Shares.	Lands.	Moulds.
62	R. H. only	1 Horse	\$.25	\$.25	\$.75
13	"	1 "	.35	.50	1.50
10	"	1 "	.40	.75	2.00
19	"	2 "	.40	.75	3.00
16	"	2 "	.40	.75	3.00
18	"	2 "	.40	.75	3.50
26	"	2 or 3 Horse	.40	.75	3.50
26 1/2	"	2 Horse	.40	.75	3.25
27	L. H.	2 "	.40	.75	3.25
28	"	2 "	.40	.75	3.50
116	Hillside	2 "	.55		3.00
126	"	2 "	.55		2.50
130	"	2 "	.55		2.50

REPAIRS FOR SOUTH BEND PLOWS

Nos.	Shares.	No. Horse.	Shares.	Lands.	Moulds.	Handles, sets, complete.	Standards.	Wood Beams	Shins.
1 B	"	1 Horse	.30	.40	1.75	1.25	1.50	.75	...
2	"	2 "	.35	.75	2.50	1.25	2.25	.90	\$.20
3 1/2	"	3 "	.35	.75	3.00	1.25	2.50	.90	\$.20
3	"	3 "	.35	1.00	3.00	1.50	2.50	1.00	\$.20
4	"	4 "	.40	1.00	3.25	1.50	2.75	1.25	\$.25
10	"	10 "	.40	1.00	3.50	1.50	3.00	1.25	\$.25
15	"	15 "	.40	1.00	3.50	1.50	3.00	1.25	\$.25
3	Slip	"	.45	1.00					
4	"	"	.45	1.00					
10	"	"	.50	1.00					
15	"	"	.50	1.00					

Jointers, complete, \$2.00. Wheels, complete, \$1.00. Rolling Coulters, \$3.50. Handles, single, all numbers, 50c. each. Other extras not named here can be furnished; price on application. Standing Coulters, \$2.00. Slip Points, each, 10c.

REPAIRS FOR SYRACUSE PLOWS

Nos.	Wood Beam Chilled Plows.	Cutter shares.	Shares.	Lands.	Moulds.	Beams.	Standards.	Shins.	Slip shares.	Slip points.
50	"	1 "	.20	.50	1.40	1.50	1.75			
51	"	1 "	.25	.55	1.35	1.50	1.75			\$.10
52	"	1 "	.25	.65	1.25	1.50	1.75			\$.10
53	"	1 or 2 H.	\$.40	.30	1.25	1.50	1.75			\$.10
54	"	Light 2	.45	.35	1.25	1.50	1.75			\$.10
55	"	Med. 2	.45	.35	1.25	1.50	1.75			\$.10
56	"	Reg. 2	.50	.40	1.25	1.50	1.75			\$.10
57	"	2 or 3 H.	.50	.40	1.00	1.75	2.75			\$.10
95	L. H.	3 Horse	.45	.35	1.00	1.75	2.50			\$.10
96	"	2 "	.50	.40	.85	1.75	2.75			\$.10
97	"	2 or 3 H.	.50	.40	1.00	1.75	2.75			\$.10
501	"	2 "	.40	1.00	.85	1.75	2.75			\$.10
502	"	2 "	.40	.85	.85	1.75	2.50			\$.10
503	"	2 "	.35	.80	.80	1.75	2.50			\$.10
601	R. H.	2 "	.40	1.00	.85	1.75	2.75			\$.10
602	"	2 "	.40	.85	.85	1.75	2.50			\$.10
603	"	2 "	.35	.80	.80	1.75	2.50			\$.10

Extras for Iron Beam Syracuse Plows

Nos.	R. H. only	Horse	Common shares.	Cutter shares.	Cast lands.	Moulds, chilled.	Beams.	Slip shares.	Slip points.
2-78	"	2	.40	.50	.70	3.25	4.00	.50	\$.10
1-78	"	2	.40	.50	.75	3.25	4.25	.50	\$.10
10-78	"	3	.45	.55	.85	3.75	4.75	.55	\$.10
20-78	L. H. only	3	.40	.50	.75	3.25	4.25	.50	\$.10
30-78	"	3	.45	.55	.85	3.75	4.75	.55	\$.10

Extras for Steel Beam Syracuse Plows

Nos.	R. H. only	Horse	Common shares.	Cutter shares.	Cast lands.	Chilled moulds.	Beams.	Standards.	Slip shares.	Slip points.
15	"	2	.40	.50	.70	3.25	4.00	.50	\$.10	
15	"	3	.45	.55	1.00	3.75	4.50	.55	\$.10	
21	L. H.	3 or 3 H.	.40	.50	.85	3.25	3.50	3.00		
35	"	3 Horse	.45	.55	1.00	3.75	4.00	3.50		

Jointers, complete, chilled, \$2.00. Wheels, complete, \$1.00. For Heavy Shares, add 5c. each. Jointer Points for any of above Syracuse Plows, 20c. Syracuse Base Bolts, 3c.

Repairs for Syracuse Contractors Plows

Nos.	For Contractors Plows, see page 157.	Steel shares.	Lands.	Moulds.	Beams.	Standards.	Shins.
98		5.00	2.25		11.00		
1	Heavy Cast.	.45	.85	3.25	5.00		

List Price of Repairs for Roland Chilled Plows

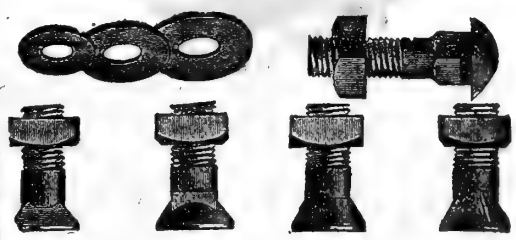
Numbers.	No. on Slip Nose.	Mould-boards.	Land-sides.	Standard.	Solid share.	Slip shares.	Slip Nose.	Cutter.
23	D	3.00	.85	2.75	.40	.45	.10	.25
D3 and C3	C	3.00	.85	2.50	.35	.45	.10	.25
D4	C	2.75	.85	2.50	.35	.45	.10	.25
13	A	2.25	.75	2.25	.30	.40	.10	.20
B3	X	1.85	.60	1.65	.25	.30	.10	
A3	X	1.35	.50	1.35	.25	.30	.10	

- WRENCHES.**
Wrenches \$.15
- JOINTERS.**
Two and three horse.... 2.00
Holders 1.00
Standards75
Mouldboards40
Points20
- WHEELS.**
Complete 1.00
Standards50
Wheel, only50
Wheel, axle25
- BOLTS.**
For Mouldboards, Land-sides, Jointer, Coulter Standards, End of Handle Brace.... .03
For Wheel Arm (hook), Wheel through Beam Side, Rolling Coulter Axle, Back End of Beam, Jointer, and Coulter Holder (fronts), and Wheel Hubs07
For spreading bottoms of Handles10
For Standard through Beam10

- CLEAVES.**
Nos. A3, B3 and 13 \$.20
All other numbers, 2-horse30
Three-horse50
Shackles10
- HANDLES.**
Nos. A3, B3 and 13, complete, per set.... 1.25
All other numbers, complete, per set.... 1.75
Single Handles, each, all numbers..... .50
Rounds, per pair10
- HANDLE BRACES.**
No. A325
Nos. B3 and 1330
All other numbers..... .50

PLOW, MACHINE AND CARRIAGE BOLTS AND NUTS

WRITE FOR PRICES.



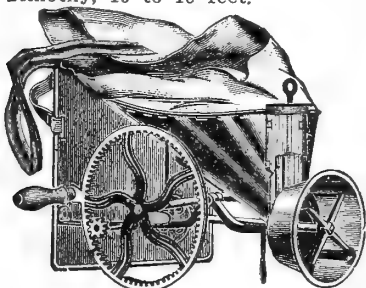
BOLTS FOR CAST PLOWS, such as Minor & Horton, Farmers' Friend, Boy Dixie, Girl Champion, 3c.

BASE BOLTS FOR CHILLED PLOWS.—South Bend, Wiard, Syracuse, Roland, 3c.

CAHOON'S BROADCAST SEED SOWER

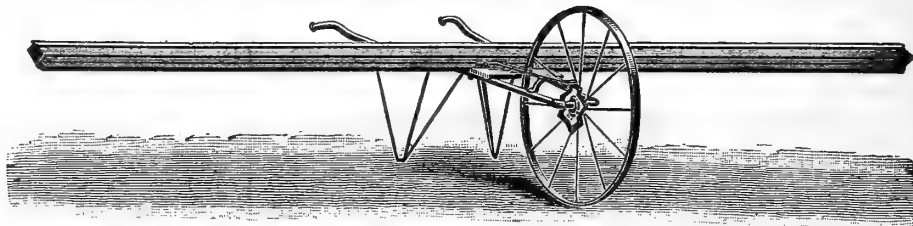
FOR SOWING CLOVER, TIMOTHY, MILLET, OATS, WHEAT, HEMP, BARLEY, RYE, RICE, BUCKWHEAT, ETC. STANDARD SEEDER OF THE WORLD—A MODEL FOR ACCURACY AND DURABILITY—MALLEABLE IRON FRAME—STEEL HOPPER AND GATE—BRASS DISCHARGER.

The breadth of the cast will be according to the weight of the seed. Wheat and Rye, 30 to 36 feet. Oats, 21 to 25 feet. Barley, 27 to 33 feet. Clover, Millet, Hungarian Seed, 20 to 24 feet. Hemp, 27 to 30 feet. Timothy, 15 to 18 feet.



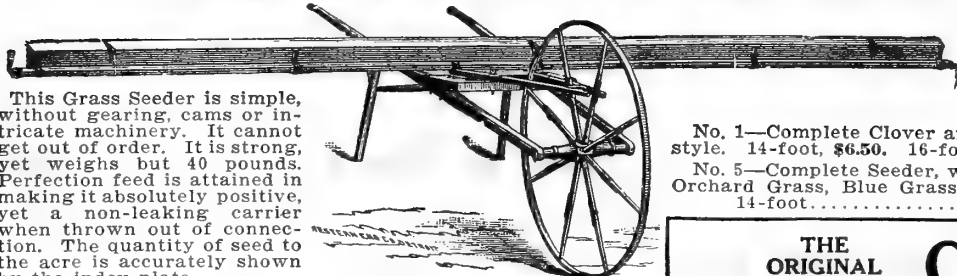
Factory Price, \$3.50. Our Special Price, \$3.00 Cash With Order.

CROWN WHEELBARROW GRASS SEEDER



Made with wood or steel frame, with wire rope feeder; very strong, and will sow accurately the various clovers, timothy, etc. Furnished in either 14 or 16-foot lengths. Price, 14-foot, \$6.50. 16-foot, \$6.75.

THOMPSON'S CLOVER AND GRASS SEEDER



This Grass Seeder is simple, without gearing, cams or intricate machinery. It cannot get out of order. It is strong, yet weighs but 40 pounds. Perfection feed is attained in making it absolutely positive, yet a non-leaking carrier when thrown out of connection. The quantity of seed to the acre is accurately shown by the index plate.

MANILA ROPE FEEDER.

SOWS 14 TO 16 FEET WIDE, ANY AMOUNT DESIRED PER ACRE. WILL SOW 20 TO 25 ACRES PER DAY.

No. 1—Complete Clover and Grass Seeder, the most popular style. 14-foot, \$6.50. 16-foot, \$6.75.

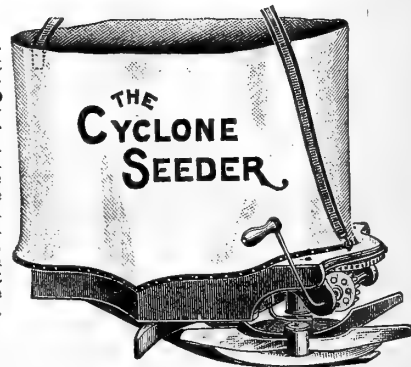
No. 5—Complete Seeder, with Double Hopper, sows Red Top, Orchard Grass, Blue Grass, Lawn Grass, as well as Clover. 14-foot.....\$8.50

THE ORIGINAL IMPROVED

CYCLONE



Although this machine has been much improved and simplified in recent years, yet the same general principles which characterized it when sold for from \$10.00 to \$12.00 each are still retained. It differs materially and very advantageously from all other Sowers in having a slope feedboard with an oblong hopper which terminates in a metal edge, on which edge oscillates a feed plate which does not allow the seed to become clogged, but makes a positive force feed and insures a uniform flow and even distribution of seed. Anyone desiring a convenient, practical and an all-round first-class grain and grass seeder, a good large sower that will meet the most exacting demands, we cannot recommend the CYCLONE too highly. Price.....\$1.50



The CHICAGO SEEDER, like the CYCLONE, is a strictly first-class machine and will do equally well the same amount and kind of work. In fact the machines are very similar, and what has been said of one as to quality and convenience is true of the other, as they differ only in the manner of operation, the CYCLONE operating with a crank and the CHICAGO with a backward and forward movement of a steel bow through a swivel guide. This machine is sometimes called the Fiddle Seeder. The CHICAGO has few wearing parts, is not liable to get out of order and is generally recognized by the trade as the best Bow Seeder made. Price, \$1.25.

LIGHTNING SEED SOWER

Will Sow 60 Acres per Day of Clover, Timothy, Millet, Alfalfa, Flax, Etc.

Cheap, durable, weighs 12 oz. Simple, no repairs. Will spread seed evenly from 30 to 40 feet. Method of sowing is by swinging tube in horizontal position from right to left, which closely resembles the old method by hand. Gives control over seed on a circle of 8 feet before it leaves the tube, and the wind has no chance to blow seed into bunches before it strikes the ground. Price, \$1.25.

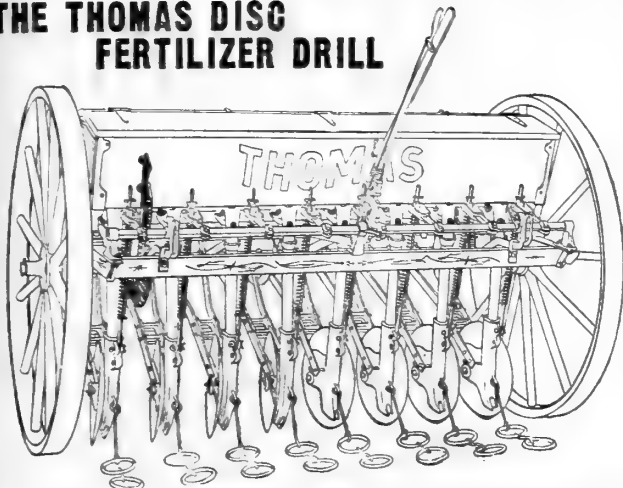


National Broadcast Seed Sower

\$1.25.

It will sow wheat, rye, oats, rice, flax, millet, turnip seed, clover seed, grass seed, including light grasses; in fact, all kinds of seed, broadcast. Also plaster, fertilizer, salt, ashes, etc.

THE THOMAS DISC FERTILIZER DRILL

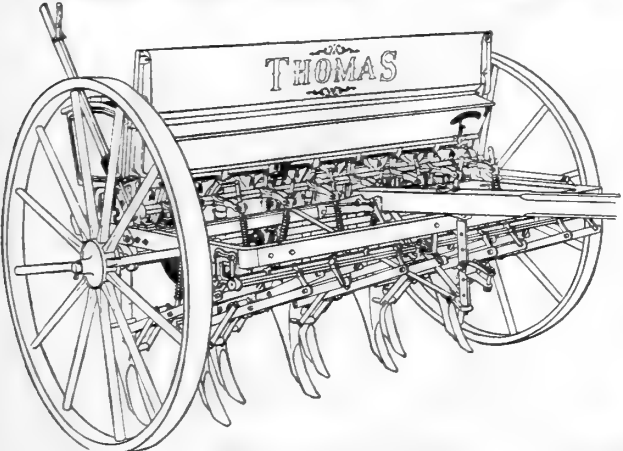


A new fertilizer feed specially adapted to this particular climate is used on this drill. (Write for catalogue describing this fertilizer feed.) The device for changing quantity is entirely new and has been thoroughly tested, and consists of a simple speed gear direct and adjustable mounted on the axle. The flow is stopped automatically when the discs are raised. When spotting shocks in sowing corn ground, can be thrown out of gear without raising the discs.

DISC BOOT.—Our Delivery Disc Boot is specially designed and very complete, and prevents choking or clogging in any soil. There is a chilled iron spindle, which will last for years, if it will ever wear out. The scrapers for discs are of spring steel, and are adjustable.

8-Disc Drill.....	\$75.00	10-Disc Drill.....	\$85.00
9-Disc Drill.....	80.00	11-Disc Drill.....	90.00

THOMAS HOE DRILL WITH FERTILIZER ATTACHMENT.



8-Hoe Pin.....	\$67.50	8-Hoe Spring.....	\$72.50
9-Hoe Pin.....	72.50	9-Hoe Spring.....	77.50
10-Hoe Pin.....	77.50	10-Hoe Spring.....	82.50
11-Hoe Pin.....	82.50	11-Hoe Spring.....	87.50
12-Hoe Pin.....	87.50	12-Hoe Spring.....	92.50

GRAIN DRILL POINTS

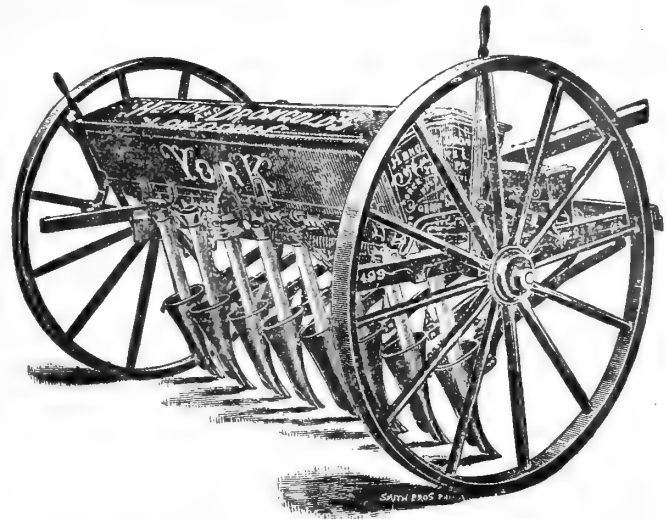
We are one of the largest Distributors of GRAIN DRILL POINTS AND TUBES in the Country.

For all leading Grain Drills, including York Superior, Pennsylvania, Bickford & Hoffman, Buckeye, Hoosier, Indiana, Champion, Empire, McSherry, Hagerstown, Greencastle, etc.

IN ORDERING POINTS, either send an old one or give name of Drill, length of point, and be sure to give distance from center of hole to end of point. It is always best, if possible, to send an old sample. If our customers will carefully comply with the foregoing directions it will be a mutual saving of an immense amount of time.

Price, Points, each.....10c.

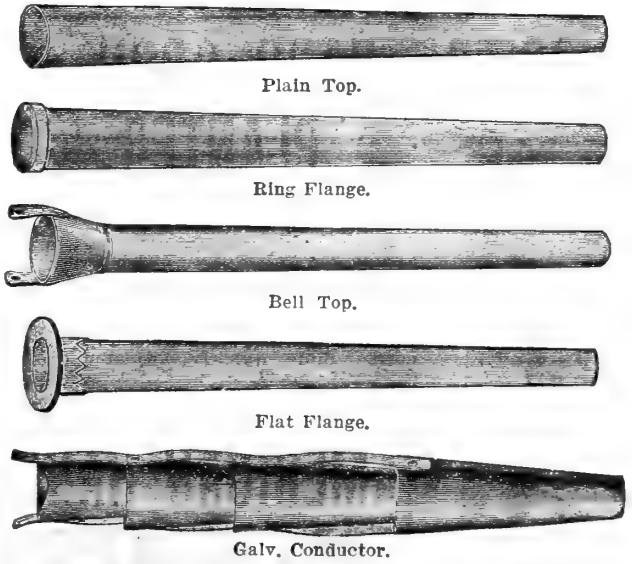
YORK GRAIN AND FERTILIZER DRILL



Both the grain and fertilizer are positive force feeds, and will sow with absolute regularity any kind of grain or fertilizer in good condition. The grass seeder is also a force feed, and can be used either in front or rear of the hoes; also quantity can be changed to any amount necessary. It is fastened on the frame and very low down, thus preventing the wind from blowing the seed away before reaching the ground. The fertilizer feed can be stopped or started at any time while the drill is in motion, which makes it convenient in case the operator does not wish to sow fertilizer while going over good ground.

8-Hoe Pin.....	\$62.00	10-Hoe Spring.....	\$71.00
9-Hoe Pin.....	65.00	11-Hoe Spring.....	74.00
10-Hoe Pin.....	68.00	8-Disc Drill.....	67.00
11-Hoe Pin.....	71.00	9-Disc Drill.....	70.00
8-Hoe Spring.....	65.00	10-Disc Drill.....	73.50
9-Hoe Spring.....	68.00	11-Disc Drill.....	76.75

GRAIN DRILL TUBES



IN ORDERING TUBES it is always best to send an old tube as a sample. If that cannot be done, be sure to state name of Drill, the kind of Tube, whether ring flange or plain top, or special bell-shaped top with straps, and by all means the length and diameter at top and bottom.

Plain Tubes, each.....	25c.
Bell Top Tubes, with strap, each.....	30c.
Flat or Ring Flange Tubes, each.....	30c.
Galvanized Conductors, each.....	40c.

HENCH & DROMGOLD'S CORN PLANTERS



Fig. 28 B.

PRICES.
 Plain Planter.....\$12.00
 Planter with fertilizer attachment 15.00
 Extra Dropping Dies, each..... .50

Special Price for Cash.

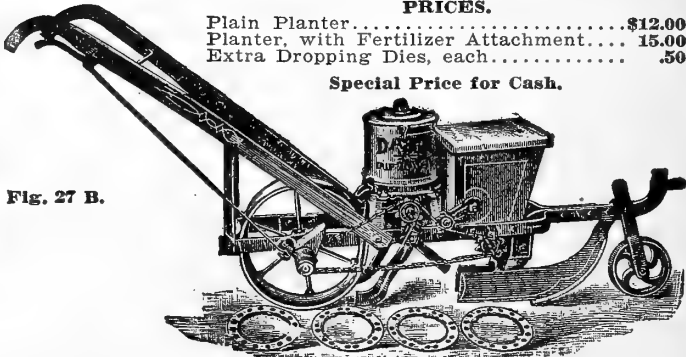


Fig. 27 B.

PRICES.
 Plain Planter.....\$12.00
 Planter, with Fertilizer Attachment.... 15.00
 Extra Dropping Dies, each..... .50

Special Price for Cash.

In all of these Planters the top part of corn-box is made of heavy sheet iron, riveted to a cast ring which is hinged to the bottom, and by loosening one thumb-nut can be turned to the side and the rings changed and the bottom cleaned out nicely.

On all machines where fertilizer attachments are used the fertilizer box sets lower on the frame, has less number of pieces, less complicated and the most positive force feed of any Planter on the market. Will sow from 20 pounds to 450 pounds per acre, and if a larger quantity is wanted use the five-point chain wheel, and it will sow 525 pounds per acre.

NOTE.—If the rows are marked out closer than three feet six inches it will sow more per acre.

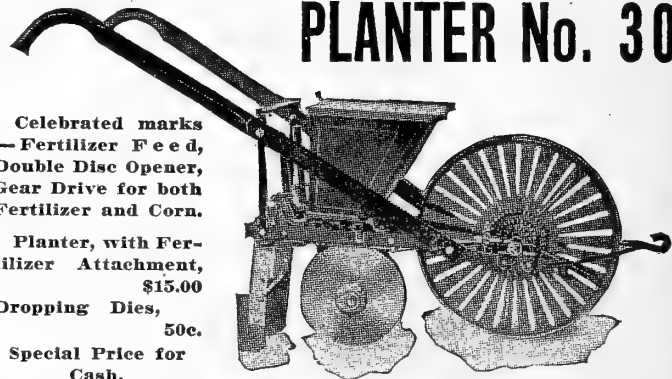
It has the same dropping device and fertilizer feed as our other Planter.

All of the H. & D. Planters have the spring trip cut-off in the corn hopper instead of the brush. This is preferable to the brush, as it does not break any corn and is more durable.

Three Chain Wheels are furnished with plain Planter and four with fertilizer. The six-point chain wheel drops one grain 13 inches or two grains 26 inches apart. The seven-point drops one grain 15 inches or two grains 30 inches apart. The eight-point wheel drops one grain 17 inches or two grains 34 inches apart. The nine-point wheel drops one grain 19 inches or two grains 38 inches apart. We can also furnish rings for planting Peas, Beans, Ensilage Corn, and by using the different chain wheels can plant any desired amount.

THESE PLANTERS (FIGS. 28 B AND 27 B) CAN BE FURNISHED EITHER WITH RUNNER OR PLOW FOR OPENING FURROW, AND WITH EITHER DOUBLE OR CONCAVE WHEEL. ALSO BOTH WITH AND WITHOUT FERTILIZER ATTACHMENT. READ THIS CAREFULLY, AND ALWAYS SPECIFY THE STYLE WANTED.

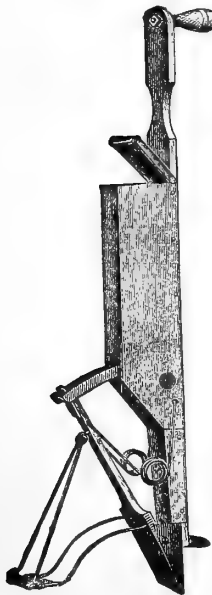
SINGLE ROW DISC CORN PLANTER No. 30



Celebrated marks
 — Fertilizer Feed,
 Double Disc Opener,
 Gear Drive for both
 Fertilizer and Corn.

Planter, with Fertilizer Attachment,
 \$15.00
 Dropping Dies, 50c.
Special Price for Cash.

GRITCO HAND CORN PLANTER



In the Gritco there is no chance of cracking the corn, beans or other delicate seed, because of the Chinese bristle brush cut-off. No casting about the planter. The stamped steel slide is formed on a segment of the circle, whose center is the pivot of the blades. Means are provided to plant pumpkin seed at the same time with the corn. Slide quickly adjusted for different sized seeds. Galvanized iron hopper, smooth, polished hardwood handle.....\$1.25

AMERICAN HAND CORN PLANTERS

Are fitted with Sheffield's famous patent adjustable seed disc and spring brass cut-off. The disc revolves similar to disc used in horse planters, and is one of the best finished and most accurate dropping discs ever used in corn planters of any description. Price, \$1.75.

ACME ROTARY AUTOMATIC HAND CORN PLANTER

ITS ROTARY SLIDE has a motion two ways—back and forth. It prevents skips. No matter how short the stroke, the pocket is pushed into the corn and back into the conveyor tube.

This motion is positive. It breaks up all bridging and fills the pocket uniformly—it counts the kernels for each drop\$1.50

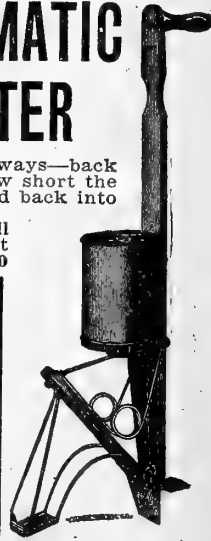
Check-Rower Wire



For All the Leading Planters.

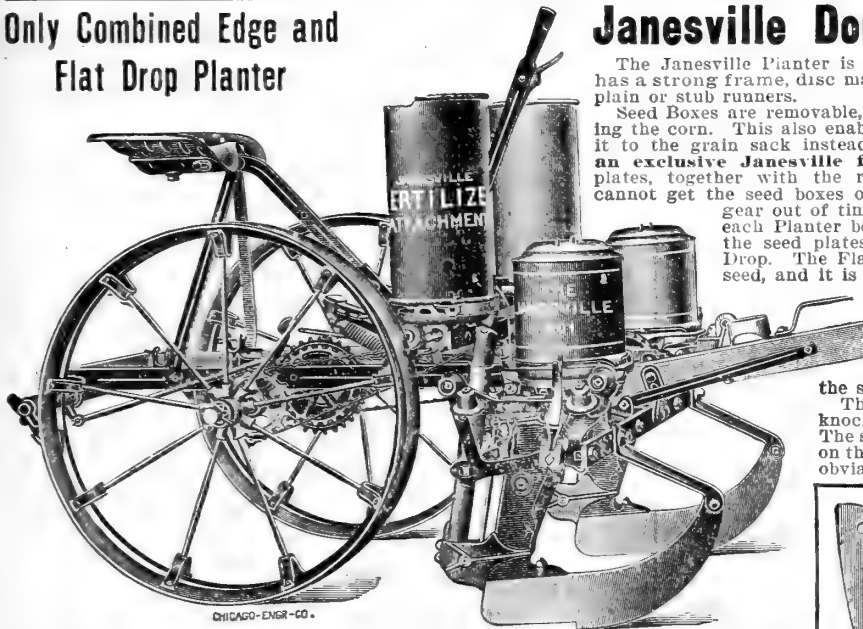
Carry in stock 3 ft. 6 in. and 3 ft. 8 in. Price per rod, 6c.

FOR CORN GRADERS SEE NEXT PAGE. UP-TO-DATE FARMERS GRADE THEIR CORN BECAUSE IT PAYS.



Only Combined Edge and Flat Drop Planter

Janesville Double Row Corn Planter



The Janesville Planter is made adjustable in width 3 feet to 4 feet. It has a strong frame, disc marker, adjustable seat, open or concave wheels, plain or stub runners.

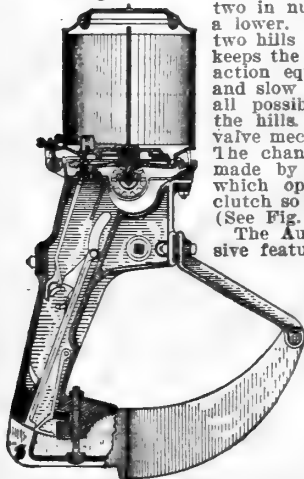
Seed Boxes are removable, and the plates may be changed without removing the corn. This also enables the operator to refill the seed can by taking it to the grain sack instead of carrying the heavy sack to the machine, an exclusive Janesville feature. The time gear for driving the seed plates, together with the removable boxes, are so constructed that you cannot get the seed boxes on the wrong side, nor can you get the driving gear out of time. With our Convertible Drop we furnish with each Planter both kinds of plates, so that by simply changing the seed plates you can have either the Edge Drop or Flat Drop. The Flat Drop gives much the best results with mixed seed, and it is sometimes not convenient to have selected seed

corn. Our Edge Drop is one of the best mechanical devices ever gotten up for the purpose, and operates as follows: The seed plate has cells in the outer edge, each of which is made to receive one kernel of corn edgewise. A revolving disc working on an eccentric over the seed plate insures the filling of these cells.

The cut-off will not crack the corn. The spring knocker drops in each cell and forces out the kernel. The seed plates are chain driven from a sprocket wheel on the main axle to a sprocket on the feed shaft. This obviates the side draft and relieves the wire strain.

- | | |
|---|---------|
| No. 1—Plain Planter, with Check Rower and 80 rods wire, Edge Drop only..... | \$40.00 |
| No. 1—Same as above, with both Edge and Flat Drop Plates..... | 42.50 |
| No. 1—Plain Planter, without Check Rower..... | 35.00 |
| No. 2—Plain Planter, Drill Drop only, without Check Rower..... | 35.00 |
| No. 1—Planter, with Check Rower Wire, Edge Drop Plates and Fertilizer Attachment..... | 50.00 |
| No. 1—Same as above, with both Edge and Flat Drop Plates..... | 52.50 |
| No. 1—With Fertilizer Attachment, and without Check Rower..... | 45.00 |
| Discs on above Planters, instead of Runners, add..... | 1.50 |

Fig. 3.



The valves of the Janesville Planter are two in number in each shank, an upper and a lower. This makes it impossible to plant two hills at the same time. The lower valve keeps the heel of the runner clear and by its action equalizes the difference between fast and slow driving. The upper valve prevents all possibility of discharging seed between the hills. Being enclosed in the shank, the valve mechanism cannot be affected by trash. The change from hill to drill drop may be made by turning a button on each shank which opens the valves; then release the clutch so as to make a continuous revolution. (See Fig. 3.)

The Automatic Clutch device is an exclusive feature that every user will appreciate. Its action is without jerk or jar when thrown in and out of gear, and it is positive in action. A safety device prevents breakage should a foreign substance get into the hopper. The buttons on the wire trip the clutch, allowing the feed shaft to make one revolution. This accumulates enough corn for one hill. It is then thrown out of gear until the next button operates the check row and throws the clutch into gear.

The front of the Planter is assisted by a spring lift. This arrangement balances the weight at any point. The pole has a spring under the back end, which gives perfect flexibility.

Spring Lift and Connection to Front Frame.

An adjustment on the pole may be raised or lowered to regulate the set of the check row.

The Check Head Trip is a patented device which operates entirely differently from the former manner in which this was accomplished. A trip bar is fastened on the front frame, and when the planter is raised out of the ground it automatically releases the wire.

Automatic Wire Distributor and Reel.

The Automatic Wire Distributor and Reel are operated by power from the main axle, so that you simply have to drive the horses and the reel takes care of itself, whether in laying out or taking up the wire. The reel has a friction clamp, which is to be used in letting out the wire, so as to produce the proper tension. The Automatic Distributor in taking up the wire prevents tangling on the reel. This is also an exclusive idea, and found only on the Janesville No. 1 Planter.

Corn Planter Runners

Made to fit the following styles: Janesville, Evans, Farmers' Friend, Hamilton, Barlow, Richmond, Champion, Hench & Dromgold, Deere, Keystone Junior, U. S., Black Hawk, Challenge, etc.

In ordering Planter Runners always state, as near as possible, the year Planter was made; whether steel or wood frame; or, better still, a diagram showing position of hole and size of bend. For Double Row Planters, per pair, \$3.00. For Single Row Planters, each, \$1.50.

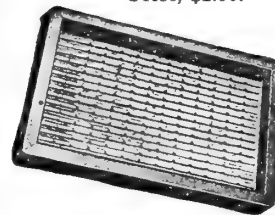


No Corn Planter Can Afford to be Without a Corn Grader.

Planter Patent Seed Corn Grader

SINGLE SCREEN.
Price, \$1.00.

DOUBLE SCREEN.
Price, \$1.50.



Simplest, Perfect Grader. Most Rapid (12 bushels per hour).

Absolutely Substantial. Satisfaction Guaranteed.

Endorsed by Corn Growers and Planter Manufacturers.

Seed Corn Sorted with the Planter Patent Seed Corn Grader separates the kernels into different sizes.

First—The large, irregular kernels.

Second—The uniform kernels.

Third—Small, round, thin and broken kernels.

The second are the uniform kernels which are the ones that germinate more perfectly and are those that the planter will drop practically, perfectly and absolutely in your hill, the exact number wanted. No loss of seed. The corn grower can plant the large, irregular grains if he wishes or he can also plant the round, thin and broken kernels, but it is not advised by growers, breeders or the majority of Corn Farmers.

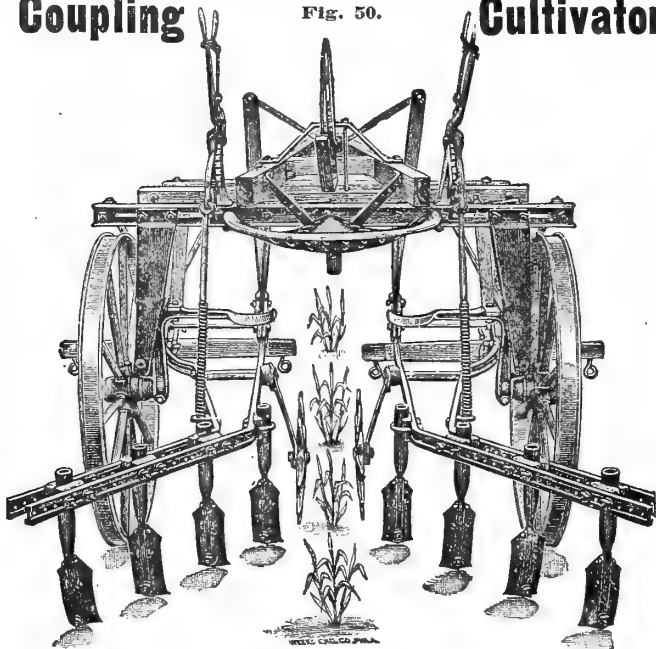
It is absolutely necessary to get a perfect drop in order to have the perfect stand of grain in the field, and this can only be accomplished by grading.

The cost of a grader is but a trifle and a single acre of graded corn, by its increased crop from a perfect stand, will more than cover the price paid.

By grading your corn with the Planter Patent Seed Corn Grader you will increase your crop on every acre from four to twenty-five bushels.

Hench's 20th Century Steel Ball Coupling Cultivator

Fig. 50.



A Wonderful Improvement in Pivot Axle Cultivators.

This is a perfect machine for both rolling and level land. Pivot axle, easy of adjustment, simple arrangement to accommodate the machine for narrow rows. Can be furnished either for pin or spring hoe.

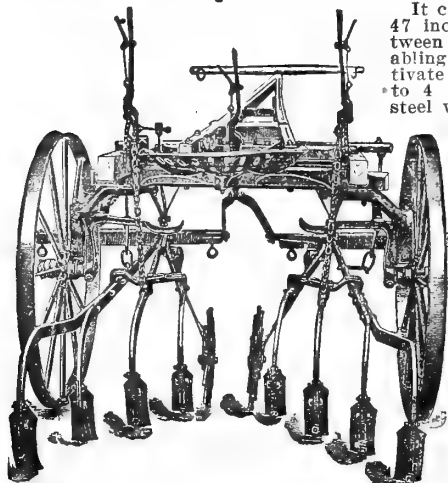
The shovel gangs are coupled in front by steel balls, 1½ inches diameter, and malleable sockets having larger running surface and no lost motion whatever. This simple arrangement prevents the lateral movement so common in this style of machine, so that, if the shovel happens to strike a bunch of grass, it will not glance around, but will cut it out.

By simply slacking four nuts on the wheel standards they can be moved in or out on the axle, narrowing the wheels from 46 inches, the widest point, to 34 inches, the narrowest point, between the wheels.

Wheels 32 inches high, made of steel, with 2-inch tread, malleable hubs, removable boxes, which can be replaced when worn out. Weight, about 375 pounds.

PRICES: 6-shovel Pin Hoe, \$30.00; 6-shovel Spring Hoe, \$33.00; 8-shovel Pin Hoe, \$31.00; 8-shovel Spring Hoe, \$35.50; 2 Center Beams and Shovels, Pin Hoe, \$2.50; 2 Center Beams and Shovels, Spring Hoe, \$3.50; 2 Standards and Shovels to make 10-shovel Pin Hoe, \$2.25; 4-disc Cultivator, with 13-inch discs, \$30.00; 6-disc Cultivator, with 13-inch discs, \$31.50. **Special Discount for Cash.**

The Hench Improved Pivot Axle Cultivator



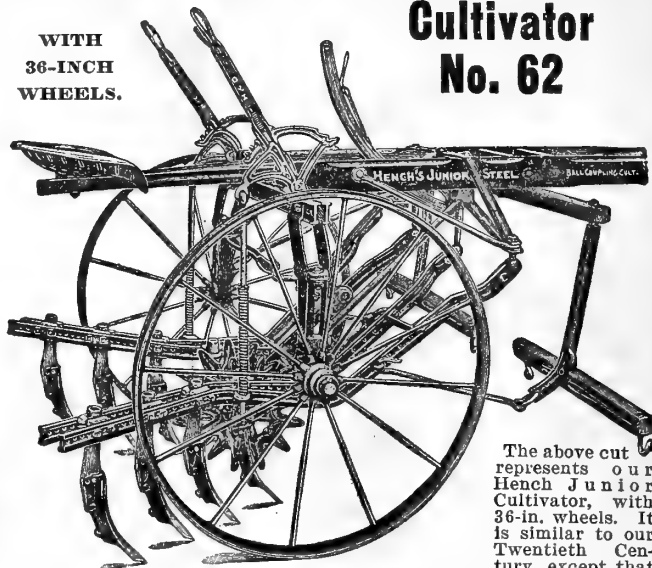
It can be narrowed from 47 inches to 36 inches between the wheels, thus enabling the operator to cultivate rows from 2 feet up to 4 feet apart. We use steel wheels 36 inches high, with renewable boxes. The spindles are 1½ inches round steel, 8 inches long, and can be renewed very quickly by any blacksmith. We furnish it with either three or four shovels on each side, or drag bar as desired. Also a pair of hilling shovels and one pair of bull tongues.

PRICES: 6-shovel Pin Hoe, \$28.50; 6-shovel Spring Hoe, \$32.00; 8-shovel Pin Hoe, \$31.00; 8-shovel Spring Hoe, \$35.50; 2 Center Beams and Shovels, Pin Hoe, \$2.50; 2 Center Beams and Shovels, Spring Hoe, \$3.50.

6-shovel Pin Hoe, \$31.00; 8-shovel Spring Hoe, \$35.50; 2 Center Beams and Shovels, Pin Hoe, \$2.50; 2 Center Beams and Shovels, Spring Hoe, \$3.50.

Hench Junior Steel Ball Coupling Cultivator No. 62

WITH
36-INCH
WHEELS.



The above cut represents our Hench Junior Cultivator, with 36-in. wheels. It is similar to our Twentieth Century, except that

the axle standard allows the wheels to pass over the axle, and is recommended where extremely narrow rows are not cultivated.

It is made with three, four or five shovels on each gang, making it six, eight or ten shovel Cultivator for rowed crops, with a pair of 1½-inch bull tongues for first cultivation and one pair of hilling shovels for last cultivation of rowed crops.

It can be rigged with two middle beams and shovels, making a 12-shovel Cultivator for fallow cultivation. It also can be furnished with Double Row Corn Planter Attachment, as shown below in Fig. 56.

PRICES: 6-shovel Pin Hoe, \$28.50; 6-shovel Spring Hoe, \$32.00; 8-shovel Pin Hoe, \$30.00; 8-shovel Spring Hoe, \$34.50; 2 Center Beams and Shovels, Pin Hoe, \$2.50; 2 Center Beams and Shovels, Spring Hoe, \$3.50; 2 Standards and Shovels, to make 10-shovel Pin Hoe, \$2.25; 4-disc Cultivator, 13-in. discs, \$28.50; 6-disc Cultivator, 13-in. discs, \$31.00.

20th Century Corn Planter Attachment

Fig. 56.

Special Discount for Cash.

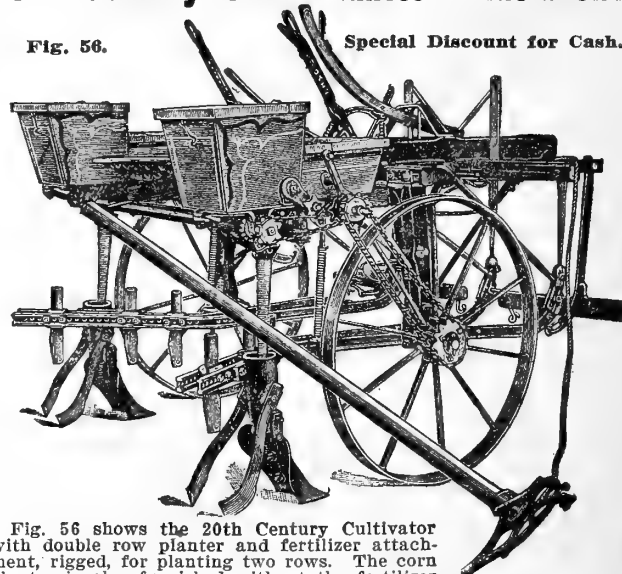


Fig. 56 shows the 20th Century Cultivator with double row planter and fertilizer attachment, rigged for planting two rows. The corn planter is also furnished without the fertilizer attachment.

All Cultivators are made so that the planter can be attached at any time. It will plant accurately almost any depth required, one grain 11, 13 or 15 inches, or two grains 22, 26 or 30 inches apart, and additional dies can be furnished at a small cost for sowing ensilage corn or for peas, beans and other seeds. It can be set to plant rows from 2 feet 10 inches to 4 feet apart. The cost for 2-row planter attachment is but a trifle more than a single row. **Price of Planter Attachment:** Double-Row Planter Attachment, plain, \$16.00. Double-Row Planter Attachment, with Fertilizer Attachment, \$21.00.

HENCH CHAMPION STEEL WALKING CULTIVATOR



With Shovel Beam Hoisted and Held up by Springs Alone. In the annexed cut is seen our six-shovel Corn and Fallow Cultivator, with seventh or middle shovel.

Perfect spring pressure and hoisting device for regulating the shovel beams or drag bars for deep or shallow cultivating. The high arch permits its use in high corn, and, being firmly braced, gives it great strength.

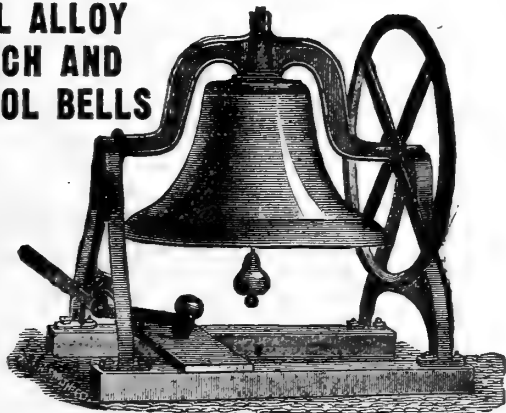
We furnish the same patent spring hoe that is used on our riding Cultivators for rocky or stumpy land at small extra cost.

4-shovel Pin Hoe.....	\$16.75	4-shovel Spring Hoe...\$19.25
6-shovel Pin Hoe.....	16.75	6-shovel Spring Hoe... 20.75
8-shovel Pin Hoe.....	18.50	8-shovel Spring Hoe... 23.50
7th or Middle Beam....	1.75	7th or Middle Shovel... 2.00

In addition to the regular shovels, 2 bull tongues and 2 hilling shovels accompany each machine.

Special Discount for Cash.

STEEL ALLOY CHURCH AND SCHOOL BELLS



These Bells are cast from an alloy of cast steel and crystal metal, and can be relied on under all circumstances and in all seasons.

No.	Diam.	Weight.	(MOUNTED)	List Price.	Retail Price.
22	22 in.	122 pounds.	175 pounds.	\$20.00	\$16.00
24	24 in.	153 pounds.	225 pounds.	25.00	20.00

Tolling hammer not furnished with No. 22. When furnished with No. 24, List, \$5.00; Retail, \$4.00. Prices on above named are for COMPLETE BELLS, and include wood sills and iron wheel.

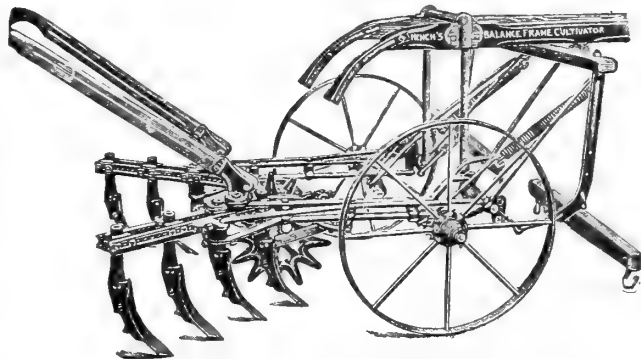
AXLE GREASE AND OILS.

Atlas, per box.....	\$.06
Atlas, 10-lb. buckets, each.....	.55
Atlas, 15-lb. pails, each.....	.70
Atlas, 25-lb. pails, each.....	.85
Mica, tin boxes, each.....	.08
Mica, 10-lb. pails, each.....	.75
Mica, 15-lb. pails, each.....	1.00
Mica, 25-lb. pails, each.....	1.25
Boston Coach Oil, per gallon.....	.75
Mineral Castor Oil, per gallon.....	.60
Eureka Harness Oil, per gallon.....	.75
Gasoline Engine Oil, per gallon.....	.60
Best Gasoline Engine Cylinder Oil.....	.75
Neats Foot Oil, per quart.....	.40
Neats Foot Oil, per gallon.....	1.00
Perfection Separator Oil, per gallon.....	.75
Perfection Separator Oil, per 5 gallons.....	2.50
Harvester Oil, per quart.....	.20
Harvester Oil, per half-gallon.....	.35
Harvester Oil, per gallon.....	.50
Capitol Steam Cylinder Oil, per gallon.....	1.00
Special Steam Cylinder Oil, per gallon.....	.60
Household Lubricant Oil.....	
1/4-pt. Tin Oillers, with spout.....	.15
1/2-pt. Tin Oillers, with spout.....	.20

HENCH BALANCE FRAME WALKING CULTIVATOR

WITH PARALLEL BEAMS.

No. 66.



The shovel gangs are coupled by cone and socket bearing to the axle, which is 6 1/2 inches in front of the wheel spindles, and when the shovel gangs are raised up the entire frame of the machine drops down about 6 or 7 inches, and this weight, together with the aid of the springs, raises the drag bars without any assistance whatever from the operator, and holds them up. It is a perfect balance, and will not tilt the tongue up when the shovel gangs are hoisted. The drag bars can be furnished with three, four or five shovels on each gang, making it 6, 8 or 10-shovel Cultivator. These shovel standards can be adjusted or placed at almost any position required. It is also made with spring trip shovels. Each machine is furnished with a pair of 1 3/4-inch bull tongues and a pair of hilling shovels, in addition to the other shovels. Either rotary or sheet steel fenders are furnished with either style of machine.

PRICES.

6-shovel Pin Hoe....\$18.00	6-shovel Spring Hoe....\$22.50
8-shovel Pin Hoe.... 19.50	8-shovel Spring Hoe.... 24.00
2 Standards and Shovels to make 10-shovel Pin Hoe....	2.00

Special Discount for Cash.

For Prices on Cultivator with Corn Planter Attachments add prices of Attachments to prices of Cultivators. Planter Attachments can be applied to 20th Century, Hench Junior, Hench Old Style and Hench Improved Cultivators, but when ordering it is necessary to state for which Cultivator it is intended.

STEELS FOR HENCH & DROMGOLD'S RIDING CULTIVATORS AND CHAMPION WALKING CULTIVATORS

1 3/4 in. Plain Shovel, O. S., without revolving backs.....	12c.
2 1/2 in. Plain Shovel, O. S., without revolving backs.....	15c.
2 1/2 in. Plain Shovel, N. S., with revolving backs.....	20c.
3 1/2 in. Plain Shovel, O. S., without revolving backs.....	20c.
3 1/2 in. Plain Shovel, N. S., with revolving backs.....	25c.
6x11 Blade, with revolving back, for 4-shovel Cultivator.....	45c.
Hilling Shovels.....	55c.

CRYSTAL METAL FARM BELLS

No.	Wt. complete.	Diam. of Bell.	List Price.	Retail Price.
1.....	40 lbs.	15	\$4.00	\$2.00
2.....	50 lbs.	17	5.00	2.50
3.....	75 lbs.	19	7.50	3.75
4.....	100 lbs.	21	10.00	5.00

THESE BELLS ARE COVERED WITH A RICH GOLD BRONZE AND THE HANGINGS WITH GOOD VARNISH.



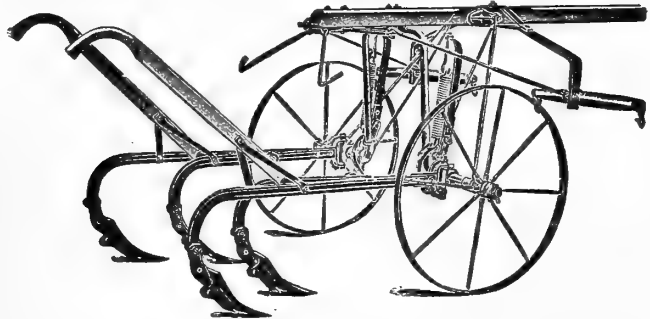
ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

KEYSTONE LINE

KEYSTONE No. 77 CULTIVATOR

WHEELS EITHER 32" OR 44" HIGH.

Unexcelled as a hillside Cultivator. Strongly braced in all directions. Built to withstand the greatest possible strain. Adjustable Shovel standards and Stirrups.



Keystone No. 77 Cultivator.

This Cultivator is not a balance frame, but it is so constructed that a person weighing one hundred and fifty pounds can ride it and balance the tongue, putting no weight on the horses' necks, nor is it necessary to tie down the tongue. The man on the seat balances the tongue.

KEYSTONE No. 55 PIVOT AXLE CULTIVATOR

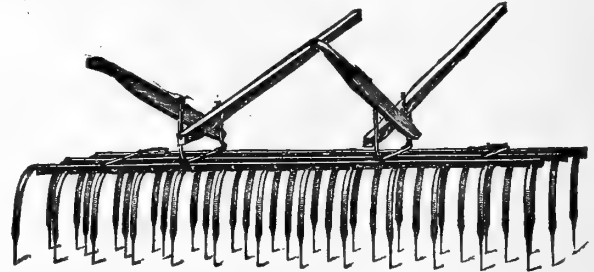
First class construction throughout. Can be narrowed to 32 inches or expanded to 46 inches between the wheels. The gangs are operated independently. Pressure levers are arranged so that a perfect float gang can be obtained if desired. Stirrups are adjustable and pivots are easily operated. The arrangement of pressure springs insures uniform pressure on all shovels. The shovel standards are adjustable, whereby suction can be obtained to force the shovels into the hardest kind of ground. The walking lever is furnished when ordered. Hitch is direct to gang, thereby securing direct pull on the gang. Excellent finish.

Prices of Cultivators with 32-inch Wheel

Style of Gang.	No. 77.	No. 55.
6 Shovels Pin Hoe.....	\$30.00	\$27.50
8 Shovels Pin Hoe.....	31.00	29.00
6 Shovels Spring Hoe.....	33.00	31.00
8 Shovels Spring Hoe.....	35.50	33.50
8 Spring Teeth, with Reversible Points.....	30.00	28.50
10 Spring Teeth, with Reversible Points.....	32.00	30.00
2 Center Beams and Shovels Pin Hoe.....	2.50	2.50
2 Center Beams and Shovels Spring Hoe.....	3.50	3.50
Ex. Standards and Shovels Pin Hoe, each.....	1.25	1.25
Ex. Standards and Shovels Spring Hoe, each.....	2.50	2.50
Parallel Beam Attachment, extra.....	2.00	2.00
Independent Wheel and Gang Movement, Ex.....	.75	.75
For Cultivators, with 44-inch Wheel, add.....	\$2.00.	

HALLOCK & KEYSTONE WEEDERS AND ATTACHMENTS

The value of shallow cultivation is now unquestioned. With our Weeders you increase crops and save labor. Buy none but the famous Hallock and Keystone Flat Tooth Weeders and Shallow Cultivators. Write for booklet.



PRICES OF WEEDERS AND ATTACHMENTS

Hallock 7 1/2 ft. Walking Weeder.....	\$10.00
Hallock 12 ft. Walking Weeder.....	20.00
Hallock 7 1/2 ft. Riding Weeder.....	18.00
Hallock 12 ft. Riding Weeder.....	33.00
Keystone 7 1/2 ft. Adjustable Weeder.....	11.00
Seeder Attachment for 7 1/2 ft. Weeder.....	8.00
Seeder Attachment for 12 ft. Weeder.....	15.25
Keystone Gangs for Sulky Cultivator.....	8.50
Keystone Gangs for Fig. 5—5-tooth Cultivator.....	5.50
No. 12—Single Wheel Hand Weeder.....	5.00
No. 13—Double Wheel Hand Weeder.....	5.50
No. 9—Two-Gang D. W. Hand Weeder.....	5.50
No. 10—Combined Hand Weeder and Seeder.....	8.00
Gritco, similar to Hallock, but with round teeth.....	8.00

THE KEYSTONE ADJUSTABLE WEEDER

We illustrate here Keystone Adjustable Weeders and Shallow Cultivators; can be narrowed to 30 inches and expanded to 7 1/2 feet. Prices of Weeder and Attachments given above.



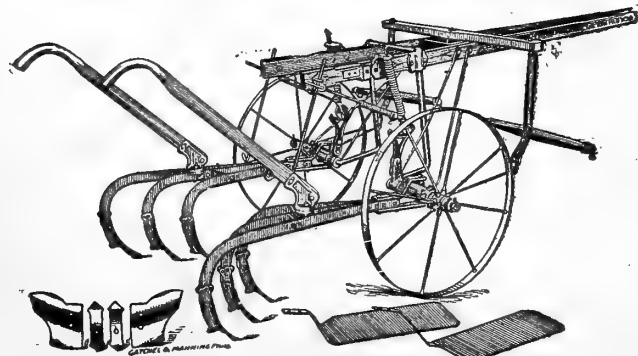
KEYSTONE DOUBLE ROW PLANTER ATTACHMENT

This attachment is for any of the Keystone Riding Cultivators. One or two rows can be planted at a time, as desired. Different rings for different crops and to be regulated to drop different distances apart in row.

Price, without fertilizer attachment, \$16.00.
Price, with fertilizer attachment, \$21.00.

WRITE FOR SPECIAL KEYSTONE CATALOG, SHOWING THE KEYSTONE LINE OF SINGLE ROW CORN PLANTERS, FERTILIZER DISTRIBUTORS, CORN SHELLERS, HAY AND FODDER CUTTERS, SWINGS, ETC.

KEYSTONE WALKING CULTIVATORS

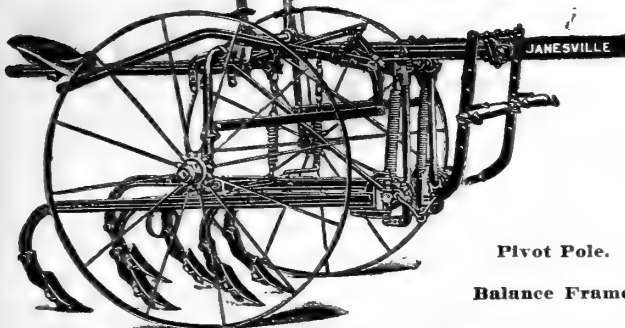


The Keystone Walking Cultivators are made with plain gangs, as illustrated here, and with parallel beam gangs. While the parallel beam feature appeals to many, and is valuable, the plain gangs are light and easily handled, and in certain sections are much more popular than any other kind. The shovel standards and handle are adjustable. These Cultivators are very popular on account of their splendid construction, the convenience with which they can be handled and the excellent quality of work they will do.

PRICES OF KEYSTONE WALKING CULTIVATORS

	Plain Gangs.	Parallel Beam.
4-shovel Pin Hoe.....	\$16.00	\$18.00
6-shovel Pin Hoe.....	16.75	18.50
8-shovel Pin Hoe.....	18.50	20.00
Seventh or Middle Beam.....	1.75	1.75
4-shovel Spring Hoe.....	19.25	21.00
6-shovel Spring Hoe.....	20.75	22.50
8-shovel Spring Hoe.....	23.50	25.50
Seventh or Middle Shovel.....	2.00	3.50

Janesville Riding Cultivators



Pivot Pole.

Balance Frame.

The Janesville Balance Frame is provided with a pivot pole which is of great assistance to the rider on side hills or in crooked corn. On account of the extreme long leverage the cultivator is very easily guided.

There is positively no other style of construction so well adapted to take care of the balance of a combined riding and walking cultivator as the Janesville. It balances, whether the shovels are in or out of the ground, and it absolutely does this under any and all conditions.

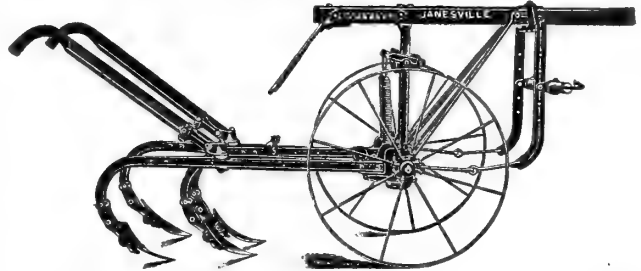
Besides balancing perfectly at all times, the Janesville has another exclusive feature—it is thrown from an inoperative position to an operative position, or vice versa; the end of the pole does not have the teeter-toter motion, so prevalent in some of the constructions now in use. Neither is the changing of the balance of the cultivator from one position to the other accompanied by a general convulsion throughout the whole machine, but glides into perfect balance.

The Janesville is the very acme of perfection as a balancing combined cultivator.

C 54—4-shovel Pin Hoe.....	\$29.00
C 55—4-shovel Spring Hoe.....	32.00
C 56—6-shovel Pin Hoe.....	31.00
C 57—6-shovel Spring Hoe.....	35.00

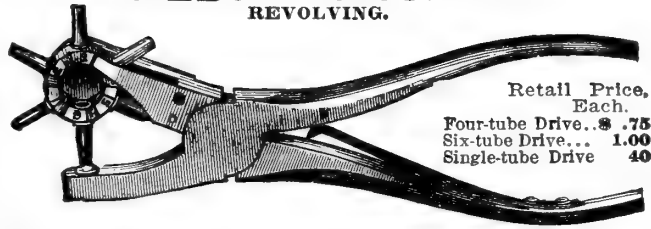
Janesville Walking Cultivator

Splendid Construction. Well Balanced Throughout. Readily Adjusted for Wide or Narrow Rows. Removable Dust Proof Wheel Boxing. This Cultivator is BOUND to please.



C 4—4-shovel Steel Beam Pin Hoe.....	\$17.50
C 5—4-shovel Steel Beam Spring Hoe.....	21.00
C 6—6-shovel Steel Beam Pin Hoe.....	19.00
C 7—6-shovel Steel Beam Spring Hoe.....	23.00
C 8—8-shovel Steel Beam Pin Hoe.....	21.00

BELT PUNCHES REVOLVING.



Retail Price,
Each.
Four-tube Drive... \$.75
Six-tube Drive... 1.00
Single-tube Drive 1.40

Axes

In Axes we carry the best lines only. We aim to sell only those we know to be first class in every respect and that have an established reputation.

G. & T. Celebrated Axes, 3 to 4 lbs., 3½ to 4½ lbs., 4 to 5 lbs., 4½ to 5½ lbs. Each..... \$.75

Beatty's Hatchets, Half Pattern and No. 2 Shingling. Each .60

AXE HANDLES.	
No. E X C—Extra Selected Second Growth, All White Hickory Axe Handles.....	.25
No. 1—Selected White Hickory Axe Handles.....	.20
No. 2—White and Red Hickory Axe Handles.....	.15
No. 3—White and Red Hickory Axe Handles.....	.12

MATTOCKS AND GRUB HOES



No.	Retail.	List.
1 Gritco—5 lb. Best Quality War. Steel Mattocks.....	.90	
1 Gritco—6 lb. Best Quality War. Steel Mattocks.....	1.00	
2—5 and 6 lb. Best Refined Iron Mattocks (Steel Cutters).....	.70	\$17.00
1 and 2 Gritco—Warranted Steel Grub Hoes.....	.65	
1—3½ lb. Best Refined Iron Grub Hoes (Steel Bit).....	.45	12.00
2—4 lb. Best Refined Iron Grub Hoes (Steel Bit).....	.50	13.00

Picks



1 Gritco—6 to 7 lb. Best Quality War. Steel Railroad Picks.....	.75
2—6 to 7 lb. Best Refined Iron Railroad Picks (Steel Point).....	.50

PICK AND MATTOCK HANDLES.	
No. XX—Best Quality Selected Second Growth Hickory Pick Handles.....	.30
Excelsior—Good Quality White Hickory Pick Handles.....	.25
1—Good Quality White and Red Hickory Pick Handles.....	.20
2—Mixed White and Red Hickory Pick Handles.....	.15

Round



Nos. 1 to 6, Retail Price, each.....	\$.10
Nos. 7 to 9, Retail Price, each.....	.15

HAMMERS



FIG. 1. STONE SLEDGES, NO. 730, NOT HANDLED. 5 to 30 lbs.....List, 30c. lb. Retail, 8c. lb.

FIG. 2. MACHINISTS' BALL PEIN HAMMER. 12 oz.....List, \$12.00 doz. Retail, 75c. each. 12 oz.....List, 12.50 doz. Retail, 80c. each. 20 oz.....List, 13.55 doz. Retail, 85c. each. 24 oz.....List, 14.50 doz. Retail, 90c. each.

FIG. 3. ENGINEERS' HAND HAMMER. 1 lb. 10 oz.....List, \$13.00 doz. Retail, 75c. each. 2 lbs.....List, 14.00 doz. Retail, 85c. each.

FIG. 4. NAPPING HAMMER, No. 890, NOT HANDLED. 5 lbs. and over.....List, 30c. lb. Retail, 9c. lb. 3 to 5 lbs.....List, 36c. lb. Retail, 10c. lb. Under 3 lbs.....List, 45c. lb. Retail, 12c. lb.

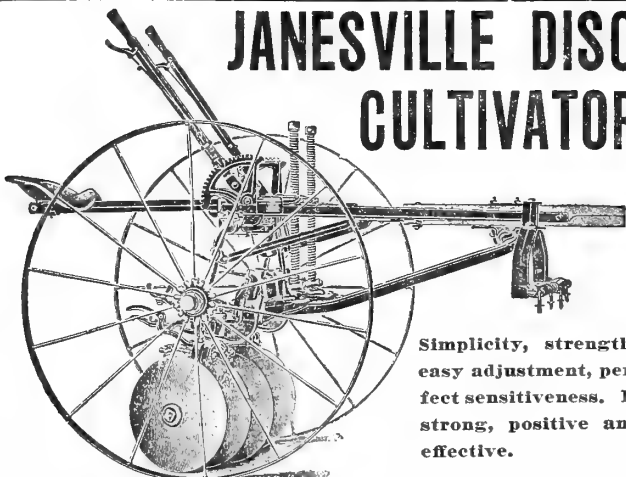
FIG. 5. RIVETING HAMMER. 4 oz.....List, \$5.50 doz. Retail, 40c. each. 7 oz.....List, 5.75 doz. Retail, 45c. each. 9 oz.....List, 6.00 doz. Retail, 50c. each. 12 oz.....List, 6.25 doz. Retail, 55c. each. 15 oz.....List, 6.50 doz. Retail, 60c. each.

FIG. 6. ADZE-EYE NAIL HAMMER. 1 lb., Not Polished.....Retail, 30c. each. 1 lb., Polished.....Retail, 40c. each. 1 lb., Polished.....List, \$8.50 doz. Retail, 60c. each.

FIG. 7. BLACKSMITHS' SLEDGES, NOT HANDLED. 5 lbs. and over.....List, 30c. lb. Retail, 8c. lb. 3 to 5 lbs.....List, 36c. lb. Retail, 9c. lb.

BLACKSMITHS' HAND HAMMER, NOT HANDLED. 5 lbs. and over.....List, 30c. lb. Retail, 8c. lb. 3 to 5 lbs.....List, 36c. lb. Retail, 9c. lb. Under 3 lbs.....List, 45c. lb. Retail, 10c. lb.

JANESVILLE DISC CULTIVATOR



Simplicity, strength, easy adjustment, perfect sensitiveness. Is strong, positive and effective.

Steel wheels; removable dustproof box; disc gangs heavy construction; chilled wearing boxes in the yoke; light draft; angle of the discs and the tilt of the frame accomplished by levers. The one machine that is imitated by other Disc Cultivator manufacturers.

A hand lever, operated without leaving the seat, sets the gangs at any desired cutting angle and enables the driver to throw as much dirt to the plants as he desires.

Any change made in the angle of the gangs does not affect the position of the shields and levelers.

The foot levers, the gangs and the coupling arms that control the tilt of the gangs and shields are positive in their action, and never slip when set, because they are held by interlocking teeth.

The yoke boxes in the gang yoke are renewable. It is never necessary to buy a new gang yoke when the bearings of the yoke boxes wear out. This feature will be appreciated.

The spring pressure feature of the Janesville Disc Cultivator enables the operator to put the gangs as deeply as desired into the hardest soil.

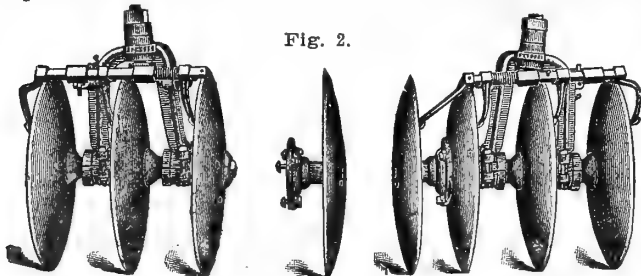
As the gangs are hung on springs the guiding is done by foot pressure instead of by shoving sidewise. The discs follow the shape of the ground evenly because of their adjustment with the wheels.

You can run it up close with the young plant without cutting off or wounding the lateral roots.

The Janesville cuts and buries trash, vines, stalks and kills the weeds.

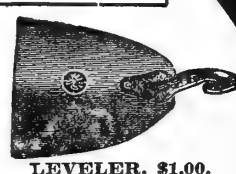
- Prices, less Levelers and Lister Bars.....\$36.00
- Levelers, per pair..... 1.75
- Four-shovel Attachment Pin Hoe..... 7.50
- Six-shovel Attachment Pin Hoe..... 8.50
- Four-shovel Attachment Spring Trip..... 9.50
- Six-shovel Attachment Spring Trip..... 11.00
- 16-inch discs and thimble for attachment to gangs, per pair..... 4.00

Fig. 2.



This cut shows the gangs with a fourth disc attachment and how easy it is for one to convert the Janesville Disc Cultivator into a disc harrow.

WE carry extra Discs, Spring Teeth, etc., for Harrows. Mowing Machine Extras, Plow Repairs, etc., all described in this Catalogue. If what you want is not shown in this Catalogue, write for further information.



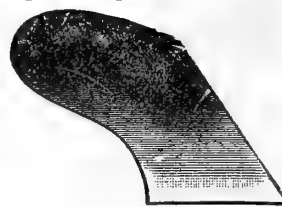
LEVELER, \$1.00.

Steels for Riding and Walking Cultivators

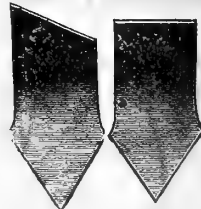
For Iron Age Riding Cultivators.



91



92



STEELS

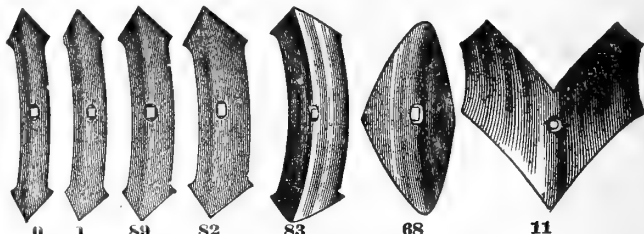
for Malta, Brown and similar styles Walking and Riding Cultivators.

- Hilling Shovels.**
PRICES OF STEELS.
 No. 90—1 1/4 inches wide, each.....\$.15
 No. 91—2 1/2 inches wide, each..... .18
 No. 92—Hilling Shovels, per pair..... .75

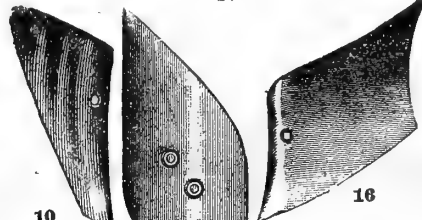
- 5 1/2 x 11, flared or straight, each.....\$.25
- 4x10, flared or straight, each..... .25
- 2 1/2 and 3 Bull Tongues, each..... .20
- 3 and 3 1/2 x 10, reversible, each..... .20
- Riding and Walking Cultivator Steels with backs and set screws, 1 1/2, 2, 2 1/2 and 3 and 3 1/2 inch..... .40
- 5 1/2 inch..... .50

Steels for Hench & Dromgold's Riding Cultivators and Champion Walking Cultivators

- 1 1/4-in. Plain Shovel, O. S., without revolving backs.....\$.12
- 2 1/2-in. Plain Shovel, O. S., without revolving backs..... .15
- 2 1/2-in. Plain Shovel, N. S., with revolving backs..... .20
- 3 1/2-in. Plain Shovel, O. S., without revolving backs..... .20
- 3 1/2-in. Plain Shovel, N. S., with revolving backs..... .25
- 6x11 Blade, with revolving back, for 4-shovel Cultivator..... .45
- Hilling Shovels, right and left, each..... .55



- No. 0—1 1/4-inch Diamond Point Steel.....\$.06 1/2
- No. 1—2-inch Diamond Point Steel..... .07 1/2
- No. 82—3-inch Diamond Point Steel..... .08
- No. 83—Or 3 1/2-inch Diamond Point Steel..... .09
- No. 84—Or 4-inch Diamond Point Steel..... .10
- No. 89—2 1/2-inch Diamond Point Steel..... .08
- No. 67—Oval or Light Jersey Point Steel..... .08
- No. 68—Oval or Jersey Point Steel..... .09
- No. 10—Turn Shovel, right or left, each..... .15
- No. 16—Turn Shovel, each..... .15
- No. 11—6-inch Sweep, about 11 inches across, each..... .15
- No. 11—8-inch Sweep, about 11 inches across, each..... .22

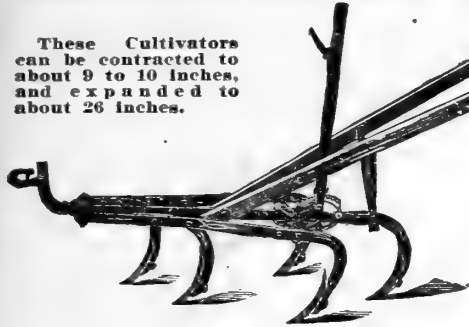


- No. 12—Horse Hoe, Steel, with Shank or Standard, per pair, \$1.25.
- No. 12—Horse Hoe, Steel, without Shank or Standard, each, 20c.
- Horse Hoe Attachments complete, in three pieces, \$1.35.
- No. 13—8-inch Sweep, each.....\$.20
- No. 18—10-inch Sweep, each..... .22
- No. 18—12-inch Sweep, each..... .25
- No. 18—15-inch Sweep, each..... .30
- Wheels for Cultivators, each..... .60
- Levelers for Cultivators, each..... 1.00
- Cultivator Plate and Frame Bolts, each..... .03
- Wheel Cultivator Clamps, each..... .25
- Set Screw Cultivator Clamps, each..... .22
- Teeth for Baltimore Combined Harrow and Cultivator, Diamond-Shaped Steel, each..... .07
- Cultivator Handles, finished, per pair..... .75

All of the Above Goods are of Best Steel and Highly Polished. Special Prices on Bolts in Quantities.

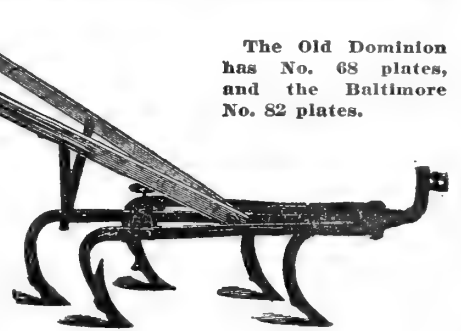
Baltimore and Old Dominion Horse Hoes and Cultivators

These Cultivators can be contracted to about 9 to 10 inches, and expanded to about 26 inches.



The Baltimore has bent steel frames. The only difference between the Baltimore and Old Dominion Cultivators is that the latter is a little lighter, and has straight frame. The Old Dominion Cultivator is sold principally in Virginia and the South, and wherever sold it becomes a favorite.

The Old Dominion has No. 68 plates, and the Baltimore No. 82 plates.



PRICES:

Baltimore Cultivator	\$2.50	Old Dominion Cultivator.....	\$2.50
Baltimore Horse Hoe and Cultivator combined, plain....	3.50	Old Dominion Cultivator and Horse Hoe, plain.....	3.50
Baltimore Horse Hoe and Cultivator combined, with wheel	4.00	Old Dominion Cultivator and Horse Hoe, with wheel....	4.00

For Lever on Old Dominion or Baltimore, add 50c.

Lord Baltimore Cultivator and Horse Hoe

Combined with Lever.

Equipped with the latest Improved Hollow Steel Standard and Lever Expander and outside Handle Braces. Extra high steel frame. Standards are interchangeable, there being no "right" nor "left," as in solid standards in general use. The horse hoe standards differ from the other three, and take either the regular cultivator teeth or hilling attachments.



They have two holes to accommodate Hillers, and may be turned all the way around, thus giving any sideway angle desired. Hillers are reversible, and may be used with either point or rounded edge foremost.

PRICES.

Plain	\$4.50
With Wheel	5.00

ORIOLE CULTIVATOR AND HORSE HOE

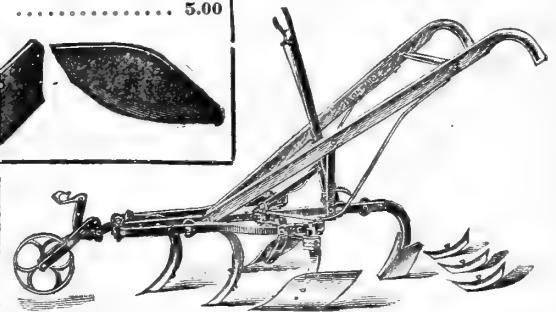
The Oriole is similar to the Old Dominion except that it has a bent frame.

Oriole Cultivator, plain.....	\$2.50
Oriole Cultivator and Horse Hoe, plain.....	3.50
Oriole Cultivator and Horse Hoe, with wheel	4.00

The Iron Age Horse Hoe

Wheel and Cultivator Combination—with or without Lever Adjuster.

Can be contracted to 13 inches and expanded to 22 inches.



BALTIMORE COMBINED HARROW AND CULTIVATOR

PRICES.

Plain	\$2.75
With Lever.....	3.25

Can be contracted to 9 inches and expanded to 21 inches.



The teeth have four positions—First, the position as shown in cut, in which case it can be used for working very close to small plants. Thoroughly pulverizes, but throws no dirt on plants. Second position, as a straight tooth harrow. Third position, the teeth can be arranged as a smoothing harrow with sharp points down, in order to cut and level the surface. Fourth position, the teeth can be set with sheared end down, being less liable to injure young plants.

Price, without lever.....	\$2.75	Price, with lever.....	\$3.25
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The Iron Age is celebrated for solidity of construction, adaptation to a great variety of purposes and ease of handling. The reversible hoes or plows of Horse Age are bolted to Solid Steel Standards of their own (not attached to light cultivator standards). The value of the Iron Age as a Corn Coverer is now well known, also for covering Peas, Potatoes, etc., and for making up rows for root crops it is not surpassed.

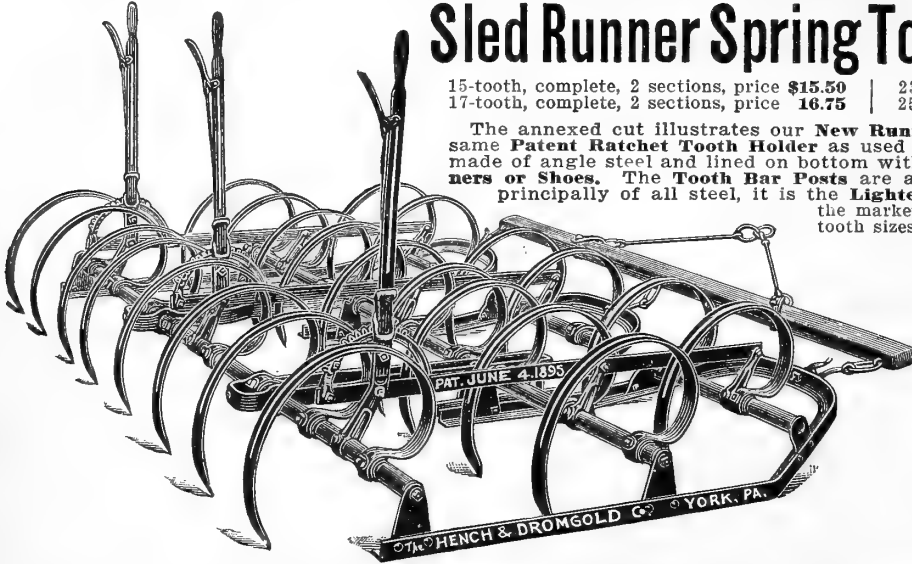
PRICES.

Iron Age Cultivator, plain.....	\$3.15
Iron Age Cultivator, with Lever.....	3.95
Iron Age Horse Hoe and Cultivator, plain	4.50
Iron Age Horse Hoe and Cultivator, with Wheel.....	5.10
Iron Age Horse Hoe and Cultivator, with Lever and Wheel.....	5.90
Iron Age Horse Hoe, Cultivator and Corn Coverer combined, plain.....	6.10
Iron Age Horse Hoe, Cultivator and Corn Coverer combined, with Lever.....	6.90

Sled Runner Spring Tooth Lever Harrow

15-tooth, complete, 2 sections, price **\$15.50** | 23-tooth, complete, 3 sections, price, **\$22.50**
 17-tooth, complete, 2 sections, price **16.75** | 25-tooth, complete, 3 sections, price, **24.50**

The annexed cut illustrates our **New Runner Spring-Tooth Harrow**, having the same **Patent Ratchet Tooth Holder** as used on our **Wheel Harrow**. The frame is made of angle steel and lined on bottom with $1\frac{1}{2}$ inch by $\frac{1}{4}$ inch **Hard Steel Runners or Shoes**. The **Tooth Bar Posts** are also of **Steel**. The construction being principally of all steel, it is the **Lightest, Neatest and Strongest Harrow** on the market. The two section is made in 15 and 17 tooth sizes.



Spring Harrow Teeth



For All
 Leading
 Harrows.

Price, 35c.
 each.

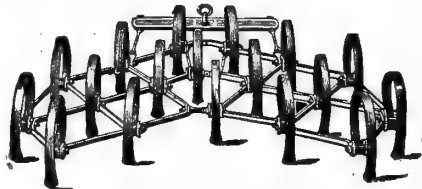
When taken
 in full sets,
 special price

HENCH & DROMGOLD'S ALL STEEL FRAME, SPRING TOOTH HARROW

This Harrow has ratchet arrangement for regulating length of tooth in case of wear.

Special Discount for Cash.

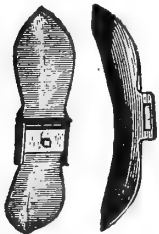
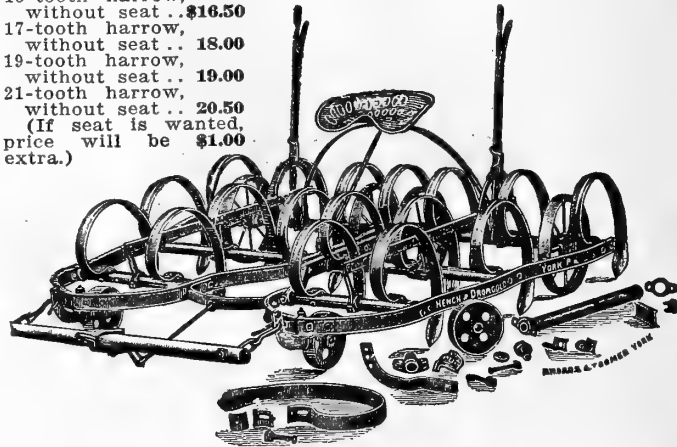
14-tooth Harrow.....	\$10.50	20-tooth Harrow.....	\$13.50
16-tooth Harrow.....	11.00	22-tooth Harrow.....	14.50
18-tooth Harrow.....	12.50		



HENCH & DROMGOLD'S IMPROVED WALKING OR RIDING SPRING TOOTH HARROW ON WHEELS

The original standard lever wheel harrow of the world. Depth easily and quickly regulated by the levers; wheels prevent teeth from gouging. By use of ratchets and levers 15 inches can be worn off teeth before renewing.

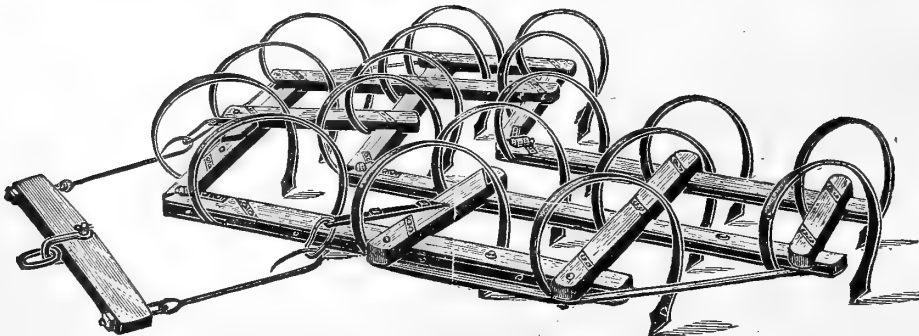
15-tooth harrow, without seat ..	\$16.50
17-tooth harrow, without seat ..	18.00
19-tooth harrow, without seat ..	19.00
21-tooth harrow, without seat ..	20.50
(If seat is wanted, price will be	\$1.00 extra.)



REVERSIBLE HARROW TOOTH POINTS

Fastening device to the old tooth very simple, making any length desired. Points reversible. Has pulverizing qualities for any soil. Price, 15c.

WOOD FRAME STEEL LINED HARROW



14-tooth Harrows.....	\$ 8.75
16-tooth Harrows.....	9.00
18-tooth Harrows.....	9.75
20-tooth Harrows.....	10.50
22-tooth Harrows.....	11.25

Special Discount for Cash.

Wood Frames Only, with Regular Lining, But Without Teeth.

14-tooth Frames.....	\$ 6.75
16-tooth Frames.....	7.25
18-tooth Frames.....	7.75
20-tooth Frames.....	8.25
22-tooth Frames.....	8.75

Made in five sizes—14, 16, 18, 20, 22 Teeth. Lined, Guarded, Protected Bolt Heads, Perfect Tooth Seat. The best of the "Wood Frames."

ADJUSTABLE SPIKE TOOTH

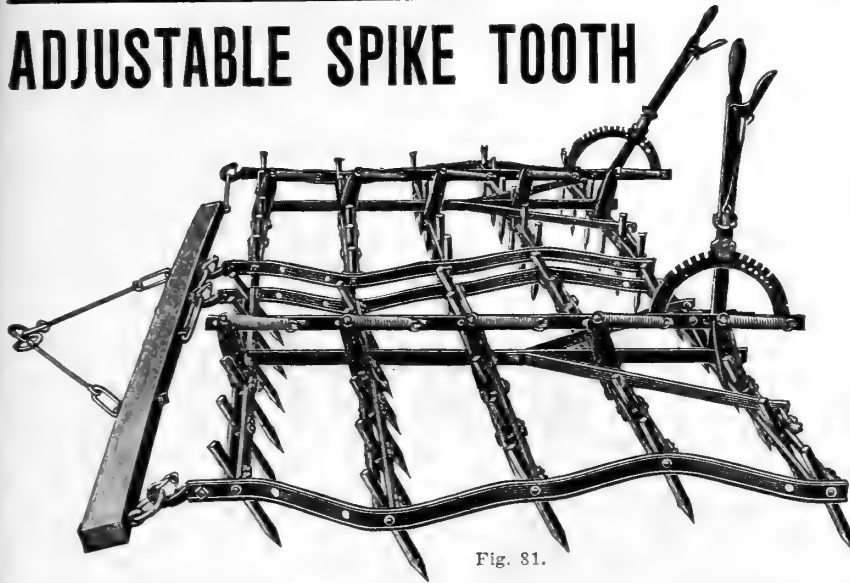


Fig. 81.

LEVER HARROW

Fig. 81.

The annexed cut is a view of "Hench's" New Improved Spike Tooth Lever Harrow. The tooth bars are constructed of two pieces of steel. The teeth are held between two bars, the corners of same being inserted into small notches on inside of tooth bars, each tooth being held by two bolts.

SPRING TRIP. Each tooth bar is connected with a coiled spring, so that when the teeth strike a rock or stump they will spring back, allowing it to pass over without effecting the other tooth bars. This is a wonderful improvement over other Harrows now on the market and the price is not any more. Patents applied for.

Fig. 81 is a side view of Harrow, showing one section with teeth set back at a slant. It is made in the following sizes:

50-Tooth 2 Section.....	\$11.50
60-Tooth 2 Section.....	12.75
75-Tooth 3 Section.....	17.50
100-Tooth 4 Section.....	23.00

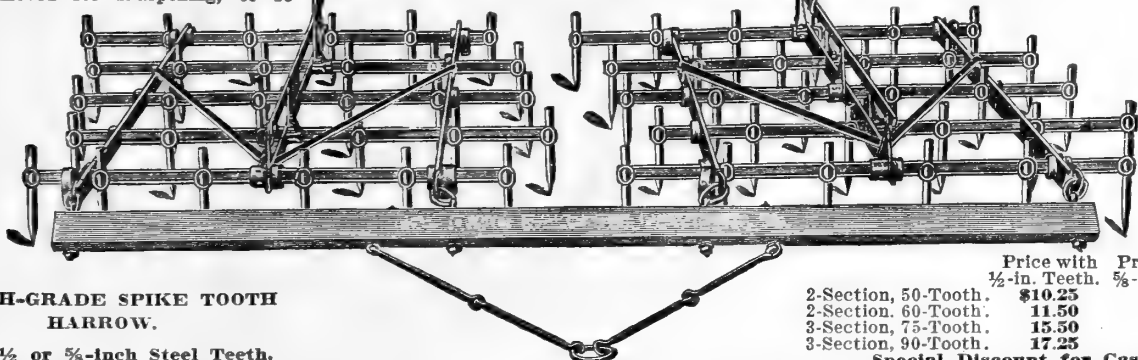
STEEL "U" BAR LEVER HARROW

SO ARRANGED THAT THE TEETH CANNOT TRACK.

This is a "U" Bar Steel Harrow, with five "U" bars each section. The teeth are so fastened by a malleable tooth-holder secured by a bolt that may be easily removed for sharpening, or so

they may be adjusted to make them cut deep or shallow, as desired. The levers permit the teeth to be lowered for smoothing or set forward at an angle to make them do more work and run more steadily, and also allow the operator to unload trash without stopping his team.

It is strong and durable; made of high carbon steel. It is finished nicely, painted and varnished. The heads of the teeth are swedged to prevent losing them, which makes a much more economical and satisfactory Harrow for the farmer to own and the dealer to sell.



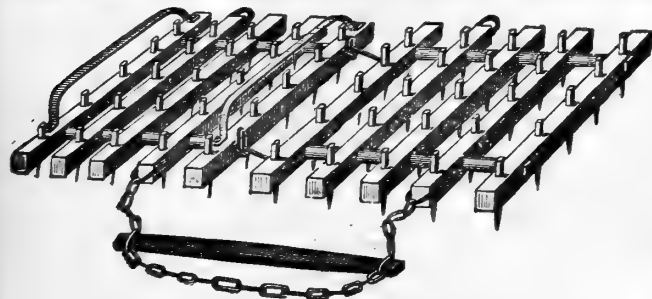
A HIGH-GRADE SPIKE TOOTH HARROW.

With 1/2 or 5/8-inch Steel Teeth.

	Price with 1/2-in. Teeth.	Price with 5/8-in. Teeth.
2-Section, 50-Tooth.	\$10.25	\$11.00
2-Section, 60-Tooth.	11.50	12.25
3-Section, 75-Tooth.	15.50	16.50
3-Section, 90-Tooth.	17.25	18.25

Special Discount for Cash.

BALTIMORE DOUBLE HINGE HARROW



This is a two section, wood-frame, spike tooth Harrow. The runners, as seen in the cut, are intended to be used in carrying the Harrow from one field to another.

PRICE.

40-Tooth.....	\$9.00
48-Tooth.....	10.25

Special Discount for Cash.

GARDENER'S HARROW

This Harrow is similar to the Baltimore Double Hinge Harrow, only it is made in one section instead of two. It is designed to be used by one horse. We furnish this Harrow with 30 teeth, which cuts 4 feet 6 inches wide, and with 24 teeth, cutting 3 feet 8 inches wide.

PRICE.

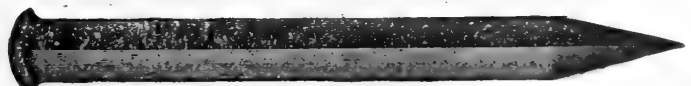
With 25 teeth.....	\$5.50	With 30 teeth.....	\$6.50
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Also furnish the old-style "A" and Double "A" Harrows at the following prices:

Single "A," with 20 5/8-inch teeth.....	\$8.00
Double "A," with 26 3/4-inch teeth.....	14.00
Double "A," with 30 3/4-inch teeth.....	15.00

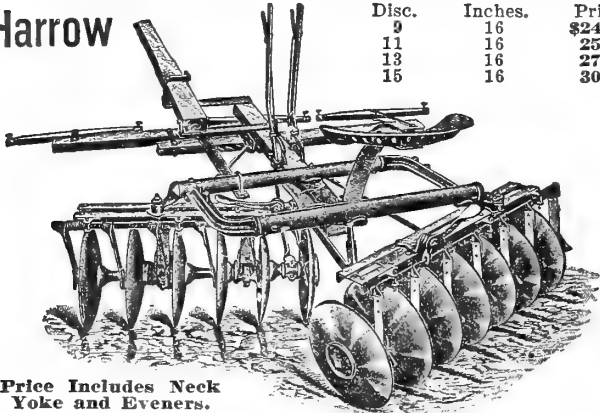
Special Discount for Cash.

SPIKE HARROW TEETH



Per pound.....5c.

Bell's Center-Cut Overlapping Disc Harrow



Disc.	Inches.	Price.
9	16	\$24.00
11	16	25.50
13	16	27.75
15	16	30.75

Price Includes Neck Yoke and Eveners.

A number of firms furnish Disc Harrows without neck yokes and eveners.

Most of the Disc Harrows on the market are so constructed as to leave an uncut ridge in the center. This is not the case with the **BELL'S CENTER-CUT** (see engraving). This Harrow cultivates the ridge and pulverizes the ground from outside to outside, leaving a smooth surface behind it. There will be no hard ridge. There will be no row of weeds between the grain. This Harrow is made of steel angles and platform and high-test steel discs. Harrows will always be furnished with Round Discs unless especially ordered otherwise. Polygon or cut discs furnished at small extra cost when specially ordered.

Special Discount for Cash.

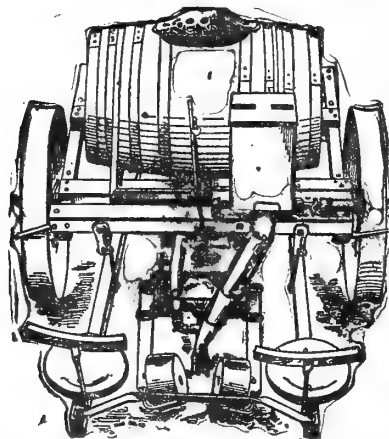
WALTER A. WOOD DISC HARROW

Formerly BUFFALO PITTS

These Harrows possess the advantage of a flexible up-and-down movement at the inner end of the disc gangs while retaining an equal pressure on all the discs. This feature is under complete control of the driver.

Prices with Neck Yokes and Eveners—8 Discs, 16 inches, \$21.00; 10 Discs, 16 inches, \$23.00; 12 Discs, 16 inches, \$25.50; 14 Discs, 16 inches, \$28.00. Special Discount for Cash.

NAGLEY'S TRANSPLANTING MACHINE



Price, \$57.50.

This transplanter has been fully tested on all kinds of soil, and can be operated and worked satisfactorily on any ground on which you wish to transplant tobacco, cabbage, celery, tomatoes, etc.

The Automatic Check Valve Device is Furnished with All Machines, but a Continuous Stream is Always Recommended.

Directions: Keep heavy oil on check valve.

1st. Use martingales or breeching when hitching to transplanter.

2d. Prepare your ground in good condition.

3d. Regulate the pressure iron so that the right pressure is attained on loose or heavy soil.

The raising or lowering the rollers regulates the depth the plow should be run in the ground.

4th. Adjust the foot rests for the dropper boys' comfort.

5th. The two dropper boys set plants in the heel of the plow alternately.

6th. Drive horses slow and regular, and in a short time the boys can do good work.

7th. If you have long and short plants, transplant the long ones, then lower the packers for the short ones.

8th. The water is regulated by turning the upper faucet.

THE NAGLEY, JR., TRANSPLANTER

The factory's latest production. Has two rollers in front which straddle the row being set. Plants successfully tomatoes, cabbage, tobacco or sweet potatoes. Send for circular. Price, \$60.00.

JANESVILLE DISC HARROW

No. B.

PRICES WITH NECK YOKES AND EVENERS.

Disc.	Inches.	Price.
8	16	\$20.00
10	16	21.25
12	16	25.50

Special Discount for Cash.



Extra Discs for Center-Cut, Janesville and Walter A. Wood Disc Harrows, \$1.25.

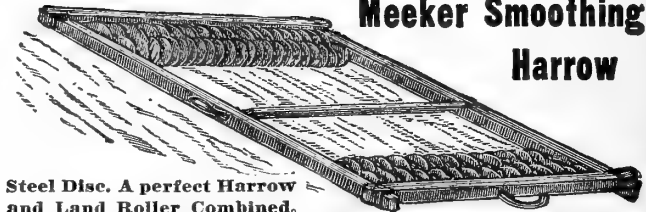
An angle steel bar runs the full length of the gang and is fastened to the top of the standards. This takes the place of weight boxes.

The cleaner bar and cleaners are attached to this bar. The standards are steel.

The inner and outer draft boxes are oiled from the top of the standards, the center box from the bottom. The oil boxes are fitted with spring covers.

The Janesville Disc Harrow carried in stock in the following sizes: Four, five and six feet wide.

Meeker Smoothing Harrow



Steel Disc. A perfect Harrow and Land Roller Combined.

The frame measures 6 feet 8 inches by 6 feet, and has four sets of rollers, having 58 discs, 8 inches diameter on them. The discs grind all the lumps so fine that the seed must come up, leveling and leaving the land fine and smooth and doing its work far better than the rake. Price, \$22.50. Special Discount for Cash.

MASTER'S RAPID PLANT SETTER

All Kinds of Plants, Such as Cabbage, Tobacco, Tomatoes, Cauliflower, Strawberries, Sweet Potatoes, Sugar Beets, Etc. The only Hand Mechanical Plant Setter on the market; is built on scientific principles throughout. Its conical jaws are made of heavy sheet steel and the main body or water reservoir and plant tube of heavy tinned plate. The water valve is of brass with rubber packing. The valve rod and trip spring are of steel wire; thumb button and other fittings are also of brass. The machine is well put together with rivets and solder and should last for years.

Price, each, \$3.75.

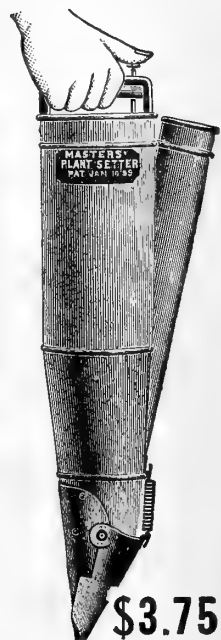
TESTIMONIALS

The Masters Planter I purchased has worked very satisfactorily, and have obtained better results from the plants set out by your machine than from those planted by hand with season. F. E. Wright, Fork, Md., May 27, 1905.

We have used the Masters Plant Setter and we find it a great labor saver. We cheerfully commend it to be as represented. Hartley, Md. Fredk. and George Davage.

I bought one of Master's Rapid Plant Setters in May, 1903, and used it to great advantage that spring. This last spring I bought two more Setters and find them satisfactory in every respect, saving labor, saving plants, with far better results than the best hand work. I would not do without the Setters for many times their cost. Harvey W. Hastings.

Laurel, Del., Oct. 19, 1904.



\$3.75

Shovel Plows

Farmers' Favorite, single-shovel Plow \$2.25
 Farmers' Favorite, double-shovel Plow 2.50

The cost of these goods is not so much in the finish as in the construction and material, these being the principal requisites in an implement.



Triple-shovel Plows, regular \$3.00
 Extra Heavy three-shovel Plows 3.25

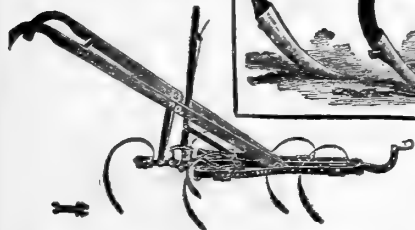


The Original and Genuine "Malta" Iron Beam Single and Double Shovel Plows

Has 1 1/4 x 3/4-inch Beam.

Double Shovel Plow... \$3.25
 Single Shovel Plow... 2.75

SEVEN-TOOTH SPRING TOOTH CULTIVATOR WITH LEVER.



A most excellent little tool at a low price. \$4.00.

Daisy Cultivator On Wheels



Set Handles and Braces to make Daisy on Wheels, 75c.

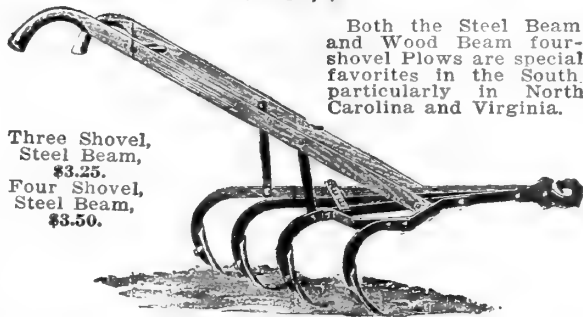
This style Cultivator is precisely the same as either half of the regular Spring Tooth Wheel Harrow, with the addition of handles. We can furnish anyone having the regular Harrow a set of handles and braces, and they can be attached to either half. The front wheel is pivoted, and will draw with ease after the horse. The wheels guide it and cause it to run steady. For turning at the ends the teeth can be raised by the use of the lever, and is very easy to operate.

RETAIL PRICE.
 7-Tooth..... \$10.00 10-Tooth..... \$11.50
 8-Tooth..... 10.50 11-Tooth..... 12.00
 9-Tooth..... 11.00

Special Discount for Cash.

Gritco Steel Beam Four Shovel Plows

PRICE, \$3.50.



Both the Steel Beam and Wood Beam Four Shovel Plows are special favorites in the South, particularly in North Carolina and Virginia.

Three Shovel, Steel Beam, \$3.25.
 Four Shovel, Steel Beam, \$3.50.

Gritco Wood Beam Four Shovel Plow

PRICE, \$3.25.

Both Wood and Steel Beam are furnished with reversible plates.

Four Nut Shovel Plow Spreader Bolts

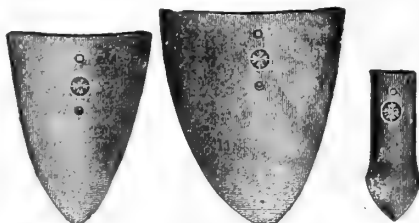
For Beams and Handles, each..... 25c.
 Shovel Plow Clevis, 20c.

Shovel Plow Handles

Finished, for Single and Double Shovel Plows, complete with round and rod, per set..... 75c.
 Finished, without round and rod, per pair..... 60c.
 Finished and bored, right and left, each..... 30c.

Steels

For Single and Double Shovel Plows.



Full and complete line of polished Steels for Single and Double Shovel Plows made in both one and two-hole styles.

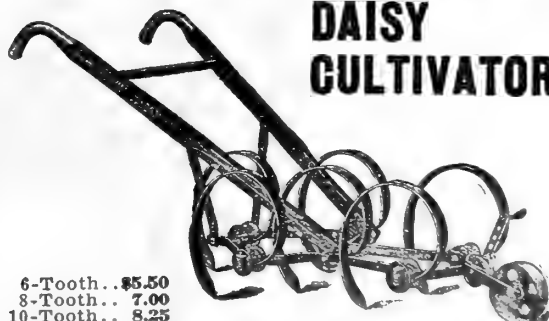
Genuine Malta Double or Single Shovel Plow Steels, per pound.. \$.08 1/2
 Farmers' Favorite Triple Shovel Plow Steels, per pound..... .08 1/2
 Farmers' Favorite Single and Double Shovel Plow Steels, per pound07 1/2
 Bolts for Shovel Plow Blades, each Four Shovel Plow Steels, 3 1/2-inch, each09
 Four Shovel Plow Steels, 4-inch, each10

Shovel Plow Fender



PRICE EACH 35c.

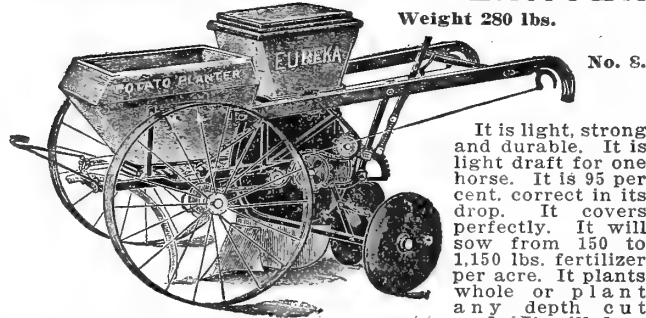
DAISY CULTIVATOR



6-Tooth.. \$5.50
 8-Tooth.. 7.00
 10-Tooth.. 8.25
 12-Tooth.. 11.75

All with Wheel and Ratchet Tooth Holder.

EUREKA POTATO PLANTER



Weight 280 lbs.

No. 8.

It is light, strong and durable. It is light draft for one horse. It is 95 per cent. correct in its drop. It covers perfectly. It will sow from 150 to 1,150 lbs. fertilizer per acre. It plants whole or plant any depth cut seed. It will drop apart. It will hold 1 1/4 bushels of potatoes and 50 pounds of fertilizer. It is made with or without fertilizer attachment. It turns easily at the end of the row. It has marker for marking return row. The furrow is opened by an anti-packing shoe or plow. The potato is dropped equi-distant apart, as regulated. The potato is partially covered by earth; the fertilizer is dropped and does not come in contact with the potato; the discs cover both potato and fertilizer any depth desired. With Fertilizer Attachment, Retail price, \$47.50. List price, \$75.00.

seed in the row 15, 19, 23 and 30 inches apart. It will hold 1 1/4 bushels of potatoes and 50 pounds of fertilizer. It is made with or without fertilizer attachment. It turns easily at the end of the row. It has marker for marking return row. The furrow is opened by an anti-packing shoe or plow. The potato is dropped equi-distant apart, as regulated. The potato is partially covered by earth; the fertilizer is dropped and does not come in contact with the potato; the discs cover both potato and fertilizer any depth desired. With Fertilizer Attachment, Retail price, \$47.50. List price, \$75.00.

Note—Pole or Tongue Atchmts. extra. Retail \$3.00, list \$5.00.



Eureka Potato Planter

No. 10.

This Planter is marked at 95 per cent. correct. Extras for widening disc furnished on application. Price, 75c.

We furnish an extra seat (if ordered), and a second man can

supply five seeds in one hundred if needed. A handy lever raises the Plow, Disc and Marker, also throws the Planter in and out of gear. No. 10—Weight, with Fertilizer Attachment, 480 pounds. Retail price, \$65.00. List price, \$110.00.

“Peerless” Hand Potato Planter

THE LIGHTEST TUBULAR PLANTER MADE.

Its spring-closed jaws are especially designed to enter the soil easily, yet open wide enough to drop the largest seed. The dropping lever or dump is adjustable for any depth of planting. The conveyor tube is galvanized iron.

Retail price, \$1.00. List Price, \$1.60.

Directions for Using.—Walk erect, plunge planter into the soil, press forward as you withdraw it; seed is left in moist soil, not dry, as is usually the case when seed is dropped by one man and left to be covered by another.

“Acme” Hand Potato Planter

This is similar to the above except it is not tubular but a stick planter. We do not carry these in stock, but can furnish them direct from the factory. Same directions for working apply on this as on the “Peerless.”

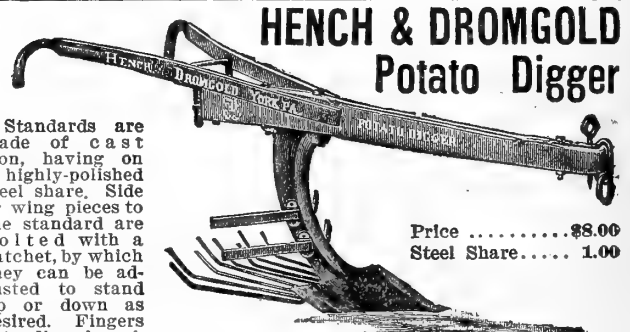
Retail Price, 75c. List Price, \$1.00.



EUREKA 2-ROW POTATO PLANTER No. 12

Weight, with Fertilizer Attachment, 700 lbs. Same in general construction as the Eureka No. 10, except it plants two rows at one time and does its work perfectly. Each gang works separately, and one independent of the other. All of these Planters have the celebrated Wizard Fertilizer Feed.

Special Retail Price, with Fertilizer Attachment, \$85.00. List Price, \$150.00.



HENCH & DROMGOLD Potato Digger

Standards are made of cast iron, having on a highly-polished steel share. Side or wing pieces to the standard are bolted with a ratchet, by which they can be adjusted to stand up or down as desired. Fingers extending back from the standard are made in a zig-zag form, instead of straight, as shown in cut, on account of which they separate the potatoes from the ground better. They are made of spring steel, and are very elastic and durable.

Price \$8.00
Steel Share..... 1.00

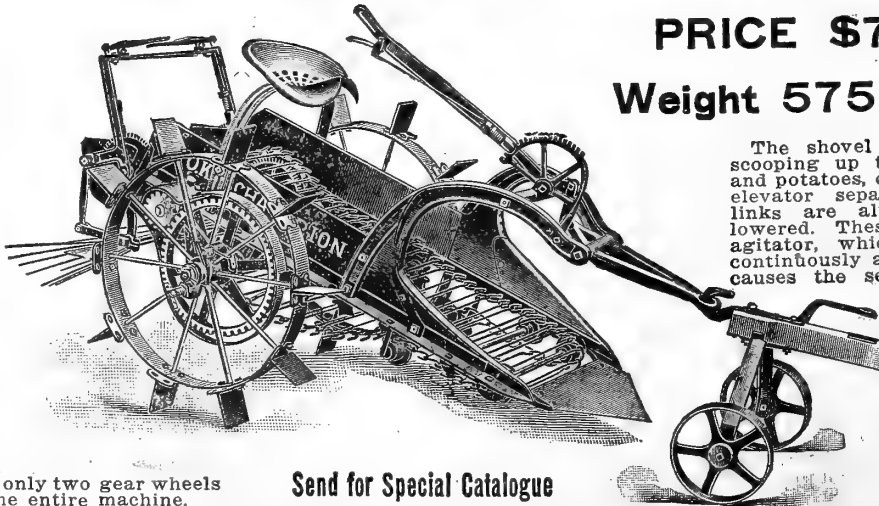
We also carry Repairs for the Hitchcock Digger.
Steel Point, 75c. Beam, \$2.50. Cast Head, \$1.25.

O. K. Champion Potato Digger

PRICE \$75.00

Weight 575 Pounds

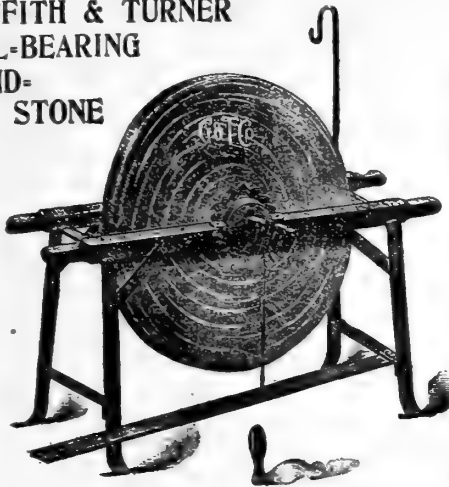
The O. K. Champion Digger with its many superior features commends itself to the careful buyer. It has stood the test of years and has many times proven to be the victor in the potato field over all competitors. Its construction embodies all the essential features, which make it absolutely reliable. It is built with a view to simpleness, doing away with all unnecessary wearing parts, which accounts for its easy draught. Two horses will do the work with ease. There is no chain drive to cause friction and wear; only two gear wheels are employed on the entire machine.



Send for Special Catalogue

The shovel is 20 inches wide, scooping up that width of ground and potatoes, depositing them on the elevator separating apron, whose links are alternately raised and lowered. These run over a sprocket agitator, which keeps the apron continuously agitated up and down, causes the separation to be done with the least possible power requirements and giving the machine a good separating capacity. The potatoes then fall upon the rear shaking fork row, thoroughly cleaning any remaining dirt from the potatoes, and deposits them in a row of about 12 inches behind the machine.

GRIFFITH & TURNER BALL-BEARING GRIND- STONE



The G. & T. B. B. Grindstone has combination steel and hardwood frame. Stone carefully selected Berea grit. Ball-bearing steel journals and axles.

No. 1 Stone, 90-110 pounds, each.....\$4.00
No. 2 Stone, 70-80 pounds, each..... 3.75
No. 3 Stone, 40-50 pounds, each..... 3.50

Stones usually furnished vary in thickness from 1 1/4 to 2 1/4 inches.

Weight of frame and fixtures, only 32 pounds. Shipped knocked down unless ordered otherwise. If crated an additional charge will be made.

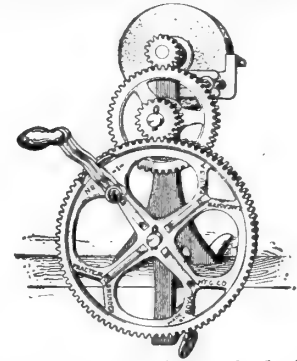
NORKA ANTI-FRICTION BI-PEDAL GRIND- STONE



Frame made from 1-in. tubing and fitted with No. 3 Stone, weighing from 40 to 50 lbs., and about 17 in. diameter; anti-friction bearings.

The frame is so constructed it cannot tip over, either backwards or sideways, and stands very firmly. Boxes strong and heavy. Shipped knocked down unless otherwise ordered. Frame easily and quickly set up. Price, \$4.00.

ALUNDUM TOOL GRINDER



No. 01 as shown in cut is designed for household use, and fills the requirements of every family. Weight 4 lbs. Size of wheel, 3 1/2 in. diameter, 3/4-in. face. Price, \$1.75.

No. A1, for use in house, on the farm or anywhere that tools need grinding. Most approved pattern. No foot power needed. Weight 7 lbs. Grinding wheel 4 in. diameter, 1 in. face. Price, \$2.50.

Extra Grinding Wheels, \$1.00 each.

IMPROVED BARREL HEADERS

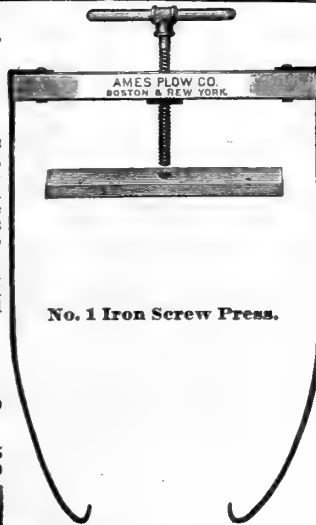
The Patent Screw Press

The Nos. 3 and 5 Screw Presses have the followers attached to screw, which device is patented. The follower attached thus can revolve, and is taken up with the screw after the barrel is headed. The side clamps are fastened to the head with two bolts.

The Lever Press has an improved rotary connection between crosshead and side clamps. It can be operated from either side of the barrel.

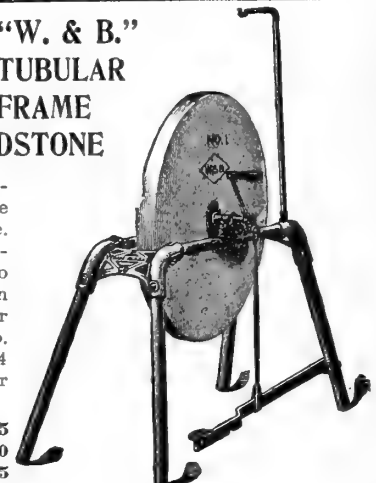
PRICES:

No. 3, similar to old No. 1, with 3/4-in. screw and follower attached\$1.50
No. 5, similar to old No. 2, with extra heavy 1-in. screw and follower attached..... 1.75
No. 6, with Lever.....1.50



No. 1 Iron Screw Press.

"W. & B." TUBULAR FRAME GRINDSTONE



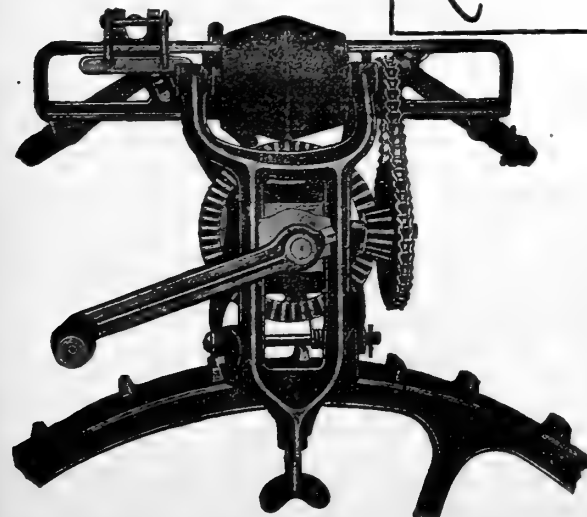
All parts fit perfectly, causing the stone to run true. Absolutely indestructible—nothing to wear out. Made in two sizes—No. 1, for 30-inch stone, and No. 2, for a stone 24 inches in diameter or less.

No. 1, each.....\$5.25
No. 2, each..... 5.00
No. 3, each..... 4.75

W. & B. Bi-Pedal Grindstone

Tubular Frame with Roller Bearings.

No. 10, each.....\$5.75 No. 20, each.....\$5.50
No. 30, each.....\$5.25.

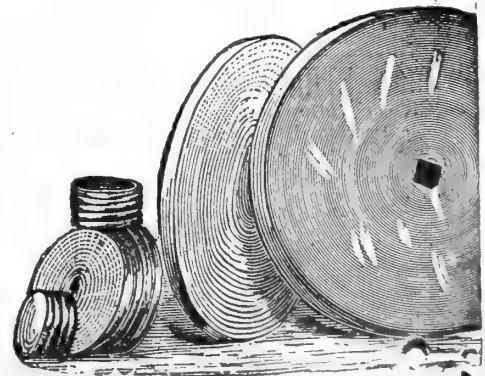


Diamond Sickle Grinder

Can be easily set to grind at any bevel. No clamping required to hold knife in position. Only two gears in entire machine. Emery wheel best obtainable; will not glaze nor draw temper from knives. Can furnish straight-faced stone when desired for grinding tools. Easily attached to bench, mowing machine wheel or other suitable place.

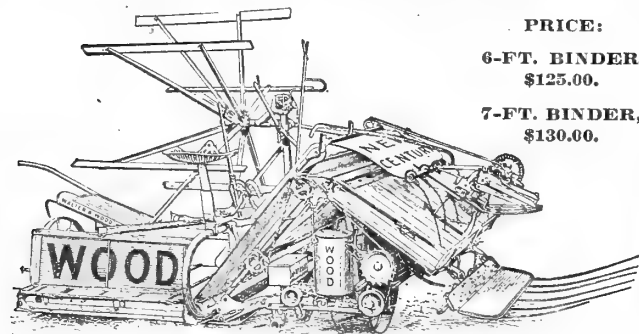
PRICE, \$3.00.

We Carry a Full Line of Loose
Stones of All Sizes, 2c. Per Lb.



Walter A. Wood NEW CENTURY GRAIN BINDER

A GENUINE TWO-HORSE MACHINE.

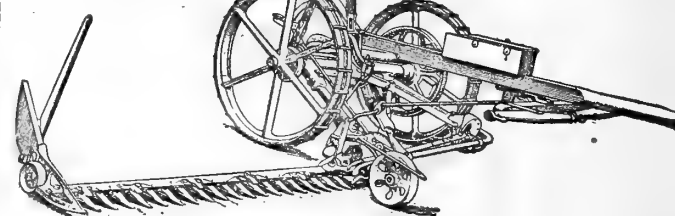


PRICE:
6-FT. BINDER,
 \$125.00.
7-FT. BINDER,
 \$130.00.

Rigid main shaft of heavy angle steel. Strong double-truss joint between main frame and platform. Great 36-inch all-steel drive wheel. "Z"-shaped finger bar. Low elevators with easy slope. Unusually deep elevator; greater capacity for heavy crops. Steep-pitched binder deck. Relief roller between elevators and deck. Automatic tighteners on all aprons. Three under-packers, assuring perfect work in short grain. Revolving discharge-arms, making perfect separation. Improved spring dropboard. Improved compression device. Unequaled knotter, grasper and tension. Binder driven from the rear. Easily threaded binder. Adjustable butting device. Ease and range of adjustment of binder. Improved and strengthened reel. New and improved simple transport. New tubular seat support. New spring tightener on drive chain. Improved non-wearing spring clutch. Improved support for rear end of crankshaft. Liberal use of roller and ball bearings.

Walter A. Wood Admiral Mowers

4 ft. 3 in. and 4 ft. 6 in. two-horse. \$42.50
 5 ft., two-horse 45.00
 6 ft., two-horse 47.50



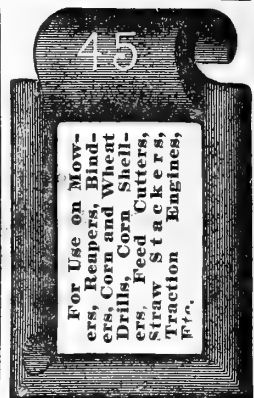
Wood two-horse Mowers cut a swath 4 feet 3 inches or 4 feet 6 inches; with patent axle extension, 5 feet or 6 feet. Wood Giant Mowers cut 5 feet, 6 feet or 7 feet, without patent extension axle.

Walter A. Wood Vice-Admiral Mowers

With Steel Wheel, \$40.00.
 Wood one-horse Mowers cut a swath 3 feet 6 inches or 4 feet.

Link Chain Belting

No.	Links per ft.	Working strain, lbs.	List price per ft. all plain links.	Retail per link
25	13.3	75	11c.	2c.
32	10.4	150	11c.	2c.
33	8.6	200	11c.	3c.
34	...	...	11c.	...
35	7.4	250	11c.	3c.
42	8.75	300	12c.	3c.
45	7.4	350	11c.	3c.
48	6.	375	13c.	4c.
52	...	...	18c.	...
55	7.4	450	16c.	4c.
62	7.25	650	22c.	5c.
65	5.66	550	18c.	6c.
72 1/2	7.25	925	37c.	7c.
76 1/2	5.8	700	25c.	5c.



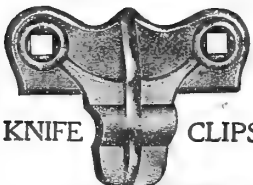
For Use on Mowers, Reapers, Binders, Corn and Shell Drills, Corn Shellers, Feed Cutters, Straw Stacks, Tractor Engines, Etc.



Price, 25c. Special Prices in Quantities.

TEDDER FORKS

Always on hand, stock of forks for leading styles of hay tedders. When ordering tedder forks always state name of tedder, year it was made if possible, and whether fork is in one or two pieces.



KNIFE CLIPS



WOOD PITMANS

PITMAN STRAPS OR CLASPS



WEARING PLATES



Binder Canvas Staples

Per Pound, 29 cents

BINDER CANVAS SLATS

Each, 5c.



RAKE TEETH

FOR ALL LEADING RAKES.

In ordering, either send old tooth or exact drawing and avoid errors.

PRICE, 25c.

KNIFE CLIPS

To Fit the Following Machines:

	Price Each.
Champion, A413, A468, A467, A693...	\$.10
Deering, F94, E461, F92...	.10
McCormick, M254, M533, H496, H919, L39	.10
McCormick, M290, M293, M652	.15
Milwaukee, J1, Osborne, E36	.10
Osborne (Columbia), K256	.20
Plano, J46, J106, J325	.10
Wood, 171, 1432	.10

WOOD PITMANS

(Without Pitman Box and Bolts.)
 To Fit the Following Machines:

Deering (Ideal Mower), 1901 and since, D1471	\$1.50
McCormick (Big 4 Mower), 1896 and since, M392	1.50
Milwaukee (No. 6 Mower), 1894 and since, PN290	1.50
Plano (Jones Mower), 1901 and since, No. 7394	1.50

PITMAN STRAPS OR CLASPS

To Fit the Following Machines:

Malleable Deering, D464, D465, D605, D606, D470, D607	Each .20
Malleable McCormick, M556, M557, M147, M304, M315	Each .20
Malleable Milwaukee, PJ9, PJ9 1/2, PH34, PH35, PG34, PG35, PJ34, PJ35	Each .20
Malleable Plano, J118, J119, J120, J121	Each .20
Plano, J378, Steel (will answer for 355), Plano, J379, Steel (will answer for 356), Plano, J380, Steel (will answer for 357, 358)	Each .20

WEARING PLATES

To Fit the Following Machines:

Champion, H315, Under Shoe Cap	
Champion, H282, Under Clips	
Deering, D1038, Under Clips	
Deering, 1040, Under Shoe Cap	
Deering, D1455, Under Shoe Cap	
McCormick, M468, Under Clips	
McCormick, M490, Under Shoe Cap	
Milwaukee, PK156, Under Chp PJ1	
Milwaukee, PG157, Under Shoe Cap	
Osborne, K325, Under Clips	
Osborne, K326, Under Shoe Cap	
Plano, 7094, Under Clips	
Plano, 7095, Under Shoe Cap	

List Price, ea., 15c. Retail Price, ea., 10c.

PITMAN WOODS

Finished and Bored, Without Straps, Bolts or Boxes. To fit the following machines: Deering (Ideal Mower), McCormick (Big 4 Mower), Milwaukee (No. 6 Mower), Plano (Jones Mower). Each, 40c.

PITMAN BOLTS

To Fit the Following Machines:

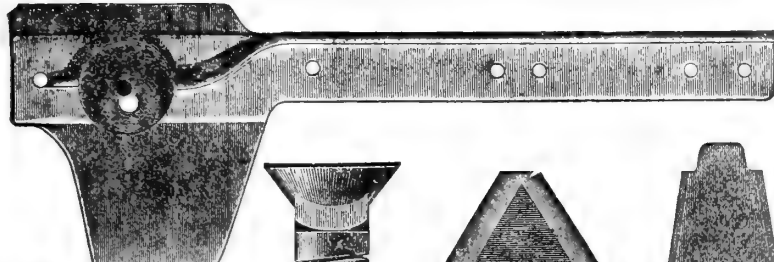
Deering Knife End, Deering Box End, McCormick, M322, with Nut; M483, with Nut 2 1/2 x 3/8; 483 1/2, with Nut 3 x 3/8	
Milwaukee, with Horn Nut, PG174	
Milwaukee, with Ratchet Nut, PG175	
Osborne, Box End (Long)	
Osborne, Knife End (Short)	
Plano, 1/2 x 3, with Nut J134	
Plano, 1/2 x 2 1/2, with Nut J103	
Plano, 1/2 x 2 1/2, with Nut J147	
Plano, 1/2 x 2 1/2, with Nut J363	

Each, 10c.

Buckeye, complete with washers	\$.15
Champion, H442, with Nut	.15
Champion, H609, with Nut	.15
Champion, 1/2-inch, Left, A96	.20
Champion, 1/2-inch, Right, No. 13	.20
Champion, 3/8-inch	.20
Wood, with Nut	.20



SECTION AND GUARD RIVETS.



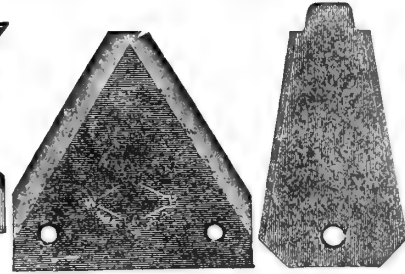
KNIFE HEAD.



GUARD.



GUARD BOLT. SMOOTH SECTION. LEGER PLATE.

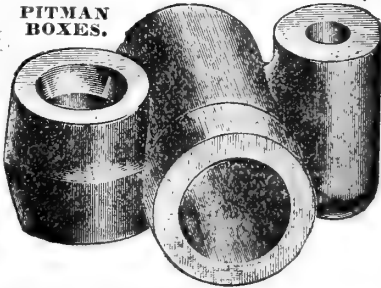


MOWER SMOOTH SECTIONS, KNIVES AND GUARDS.

REAPER SICKLE.

MOWER KNIFE.

Made to fit the following Machines.	Size of Section.	Retail Price of Section	No. of Guard	Retail Price of Guard	No. of Knife Head	Retail Price of Knife Head	Knives complete.		Pitman Boxes No.	List Price of Pitman Boxes	Retail Price of Pitman Boxes
							4 1/2 ft.	5 ft.			
Wood.....									539-540	\$.60	\$.50
Wood.....	3x3 1/2	\$.05	A	\$.25 1680	\$.35	\$2.40	\$2.50	291 1/2		.60	.60
Wood.....	3x2 3/4	.05	P. P.	.25 1810	.35	2.40	2.50	1785		.60	.40
Deering.....	3x3 3/4	.05	D 442	.25 F 123	.35	2.40	2.50	D 334		.90	.80
Deering.....	3x3 3/4	.05	F 1 1/2	.25 F 174	1.00	2.40	2.50				
Deering.....	2 1/4 x 3 1/8	.05	F 99 1/2	.25 F 74	1.00	2.40	2.50				
McCormick.....	3x3 3/8	.05	M 462	.25 M 139	.25	2.40	2.50	M 317		.50	.40
McCormick.....	3x3 3/8	.05	M 253	.25 M 139	.25	2.40	2.50				
Champion.....	3x3 3/8	.05	A 41	.25 A 415	.50	2.40	2.50				
Champion.....	3x3 3/8	.05	A 811	.25 A 415	.50	2.40	2.50	A 747		.50	.40
Champion.....	3x3 3/8	.05	A 465	.25 A 415	.50	2.40	2.50				
Champion.....	3x3 3/4	.05	A 41	.25 B 37	.50	2.40	2.50				
Champion.....	3 1/2 x 3 1/4	.05	4	.25 B 37	.50	2.40	2.50				
Osborne.....	3x3 High Punch	.05	K 280	.25 K 284	.25	2.40	2.50	K 278		.90	.50
Osborne.....	3x3 Low Punch	.05	K 72	.25 K 212	.25	2.40	2.50				
Johnston.....	3x3 3/8	.05	897	.25 919	.25	2.40	2.50				
Johnston.....	3x3 3/8	.05	77	.25 124	.25	2.40	2.50	257		.40	.40
Plano.....	3x3 3/8	.05	H 46	.25 J 94	.25	2.40	2.50	J 100		.30	.25
Plano.....								J 99		.75	.40
Milwaukee.....	3x3 3/8	.05	P K 5	.25 P.G. 6	.25	2.40		P J 50		.80	.25
Milwaukee.....								P J 173		.25	.25
Adriance Buckeye	3x3 3/8	.05	564	.25 557 F	.40	2.40	2.50				
Akron Buckeye... 3x3 3/8	Low Punch	.05	775	.25 301	1.00	2.40	2.50				
Akron Buckeye... 3x3 3/8	High Punch	.05	775	.25 301	1.00	2.40	2.50				
Whiteley.....	3x3 3/4	.05	A 16	.25 A 57	1.00	2.40	2.50				
Whiteley.....	3x3 3/4	.05	A 185	.25 15	1.00	2.40	2.50				
Eureka.....	3x2 7/8	.05	40	.25 66 B	.50	2.40	2.50				
Eureka.....	3x3 3/8	.05	40 D	.25 66 B	.50	2.40	2.50				
Manny.....	3x3 3/8	.05	A	.25 { Mal. Lock Nut }	1.00	2.40	2.50				
Warrior.....	2 1/4 x 3	.05	W	.25 1470	1.00	2.40	2.50				
Warrior.....	2 1/2 x 2 3/8	.05	V	.25 1699	.50	2.40	2.50				
Triumph.....	3x3 3/4	.05	635	.25 6139	.50	2.40	2.50				
Empire.....	3x3 3/8	.05	55	.25 Forged	1.00	2.40	2.50				
Bradley.....	3x3 3/8	.05	400	.25 736	.50	2.40	2.50				



PITMAN BOXES.

COTTER.



Prices on application.

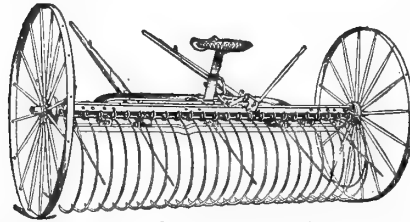
BINDER SICKLE SECTIONS, GUARDS AND KNIVES.

Made to fit the following Machines.	Size of Section.	Retail Price of Section	No. of Guard.	Retail Price of Guard.	No. of Knife Head.	Retail Price of Knife Head.	Knives complete.		
							6 ft.	6 1/2 ft.	7 ft.
Wood Binder.....	3 x 2 1/2	\$.05	W	\$.25	H 2139	\$.40	\$2.75		\$3.00
Wood Binder.....	3 x 2 3/8	.05	H 171	.25	H 1150	.35		\$3.00	
Deering Binder.....	3 1/8 x 2 1/8	.05	286	.25	H 260	.25	2.75		3.00
Deering Binder.....	3 1/8 x 2 3/8	.05	286	.25	A 46	.50	2.75		3.00
McCormick Binder.....	3 x 2 1/8	.05	H 495	.25	B 23	.25	2.75		3.00
Champion Binder.....	3 x 2 1/2	.05	U 53	.25	1852	.50	2.75		3.00
Osborne Binder.....	3 x 2 1/4	.05	D 300	.25	B 587	.25	2.75		3.00
Johnston Binder.....	3 x 2 3/8	.05	50 A	.25	L 296	.25		3.00	3.00
Plano Binder.....	3 x 2 3/8	.05	L 300	.25	L 395	.25	2.75		3.00
Plano Binder.....	3 x 2 1/2	.05	L 67	.25	L 66	.25	2.75		3.00
Milwaukee Binder.....	3 1/8 x 2 1/4	.05	J 76	.25	H 41 7/8	.25	2.75		3.00
Adriance Binder.....	3 x 2 1/2	.05	1265	.25	1245 A	.40	2.75		3.00
Akron Buckeye Binder.....	3 x 2 1/2	.05	T 35	.25	H 700	1.00	2.75		3.00
Triumph Binder.....	3 x 2 1/2	.05	2	.25	615	.70	2.75		3.00

* Leger Plates for all Machines, 5c. each. Section and Guard Rivets, 15c. lb. Guard Bolts for all Machines, 4c. each.

Above we give a table of sizes, numbers and prices of Sections, Guards, Knife Heads and Knives complete, and combinations generally used. In some cases more than one Knife Head and Guard have been used with the same section. In ordering, always give number of Guard and Knife Head, also drawing of Section wanted, showing holes punched in Section. In ordering Knives complete, always give number of old Knife Head.

WALTER A. WOOD SELF-DUMP HAY RAKES



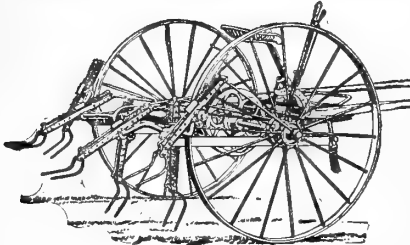
It is in every sense of the word a self-dump rake. You merely touch the trip with your foot. The dumping is automatic. The self-dump rake also has a hand-dump attachment.

Naturally, in a rake the important parts are the rakers—the teeth. The Wood teeth are made on a special pattern designed to produce best results. They do not harrow the ground, but they rake all the hay. They do not allow it to roll over and over and finally tangle in the wheels, but they rake it and carry it until you touch the trip. All Walter A. Wood rakes can be used for one or two horses, the shafts sliding together and forming a pole.

Price of Self-Dump Rakes, All-Steel.

8 ft., with 20 teeth, \$23.00; 8 ft., with 24 teeth, \$24.00; 9 ft., with 27 teeth, \$25.00. **Special Prices for Cash.**

WALTER A. WOOD HAY TEDDER

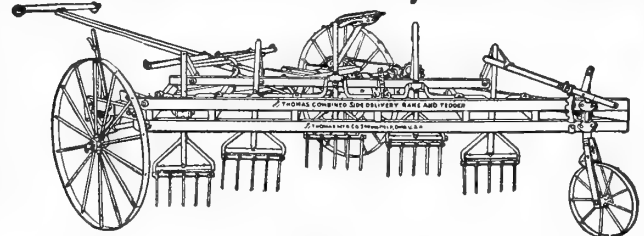


The Wood Tedder is built of steel throughout, is perfectly balanced and very light in draft. It is exceptionally strong. The strong forks are readily adjusted at different heights from the ground by the use of one lever, with a unique device for passing obstructions. Each fork has four distinct motions calculated to best separate and toss the hay.

Prices of Hay Tedders.

Six-fork, \$37.00. Eight-fork, \$41.00. **Special Prices for Cash.**

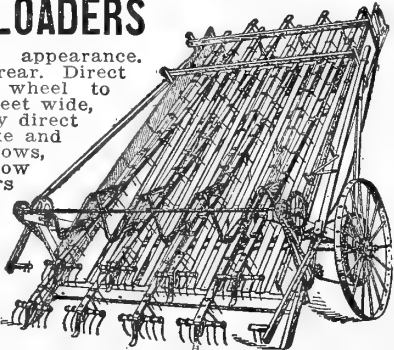
Thomas Combined Side Delivery Rake and Tedder



Gathers hay on from seven to eight feet of the ground and delivers it at one side of the machine in a continuous windrow. A flat steel spring allows fork to bend back going over obstructions. Forks can be raised or lowered to adapt machine to light or heavy hay. Forks and teeth adjustable. No dumping required. Anyone that can drive horses can operate it same as a Tedder. The Rake can be changed to a Tedder in a few minutes by taking off fork arms and turning them over and fasten back again; also, by adding a few links to driving chain. **PRICE, \$55.00.**

THOMAS HAY LOADERS

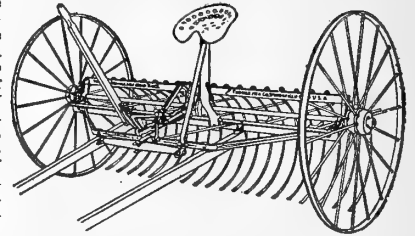
Cut shows general appearance. Well braced front and rear. Direct gearing from drive wheel to crank. Rakes 6 or 8 feet wide, light draft. Takes hay direct from swath. Will rake and load from light windrows, but is not a windrow loader. Fork protectors to prevent digging into the ground. Specially constructed crank support to hold crank loose. Driver can unhitch loader from wagon without getting off the wagon. We invite inspection.



Price.....\$65.00

THOMAS RELIABLE SELF-DUMP STEEL RAKE

The Steel Reliable Rake has a hand lever for raising the teeth by hand, when you do not want to use the self-dumping device. It dumps very easily by hand. Teeth do not fall back hard, as on other rakes, jarring and straining the rake. Each tooth gets in use the full benefit of the coil in the tooth.



PRICES.

8 ft., 20 teeth.....\$22.00
9 ft., 20 teeth..... 23.00

THOMAS CELEBRATED RAKE

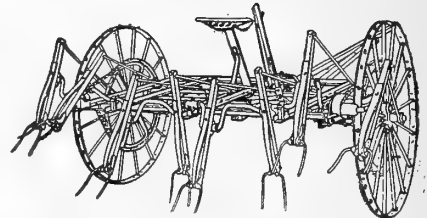
PRICE.

8 ft. \$21.00

Special Price for Cash.

THOMAS TRIUMPH TEDDER

Frame of steel; angle bars. Wheels are steel with wide channel to prevent slipping. Fork arms of wood. Gear lever in center and operated from seat. Chain drive each end of machine. Long fork spring allows forks to rise higher from ground than any other tedder. Steel axle to prevent binding. Spring on front of frame to relieve frame when unusual obstructions are encountered. **Combined shafts and poles.**



PRICES.

6-Fork, Outside Kickers.....\$35.00
8-Fork, Outside Kickers..... 38.00

SO-EZY HAY PRESS

In this press the end of Pitman extends far past end of drive arm; wedge and roller are on opposite side of Pitman. The forward stroke begins by the drive arm pushing against side of Pitman, forcing the wedge against roller on opposite side, thus pushing plunger rapidly forward at the beginning of stroke and while hay is still loose in box.

The drive arm takes up the stroke just as the hay is becoming compact. The one-horse So-Ezy Press you get two 33-inch strokes to one round of horse, with a 16-inch drive arm on the two-horse press you get two 44-inch strokes to each round of the horse.

PRICES.

1 Horse Press, unmounted..... \$90.00
1 Horse Press, mounted..... 120.00
2 Horse Press, unmounted..... 150.00
2 Horse Press, mounted..... 175.00

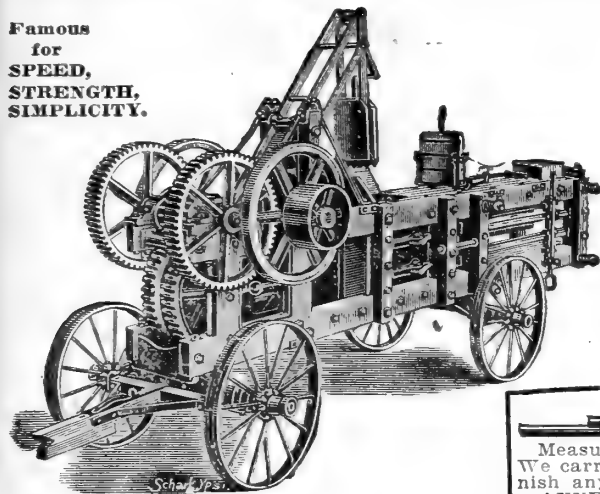
RAPID FIRE HAY PRESS

Very similar to the above but a lighter machine. One-horse, full circle, two strokes, light draft, strong, simple, durable. Price, unmounted, \$65.00; mounted, \$85.00.

FOR PRICE OF TEDDER FORKS AND RAKE TEETH SEE PAGE 112.

THE WOLVERINE HAY PRESS

Famous
for
**SPEED,
STRENGTH,
SIMPLICITY.**



The most important characteristic of the Wolverine Hay Press is its great strength, because on it the speed, durability and other good points of the Press depend. Strong construction is true economy. It costs practically nothing to keep the Wolverine Hay Press in repair. There is nothing complex or intricate about the Wolverine. As few parts as possible, but every one of them sound and solid.

A machine that runs as easy and simple as the Wolverine and with all of the Wolverine's strength and durability is bound to do a full day's work every day. It will bale just as fast as its crew can work—just as fast as you can feed and tie the bales. We know the sterling strength of the Wolverine,—its strain bearing powers,—and we know that it will do every bit of work that you ask it to do and do it better than other presses.

Special Catalogue fully describing the Wolverine Hay Press will be sent free on application.

List price.....\$525.00 (Write for Discounts.)

BALING TIES



(GROSS HEAD)

Measure around the bale and add three inches to get the proper length. We carry 8½ and 9 ft. Cross Head and 9 and 9½ ft. Single Loop. Can furnish any other stock size or style. Prices on application.

ANNEALED BALING WIRE.—Nos. 11, 12, 13, 14 and 16 always on hand at lowest market prices on application.

BALTIMORE SPECIAL CIDER AND WINE MILL



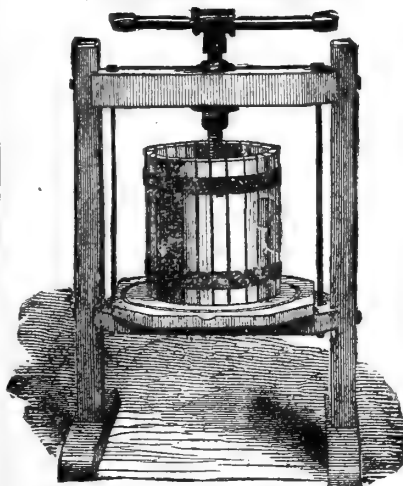
Similar to the wine and cider mill described below, only it is larger, and will take larger apples, and, being a geared mill, will do much more rapid work. Price.....\$9.00.

HUTCHINSON PATTERN WINE AND CIDER MILL

This is a very handy little mill for making a small quantity of cider, 5 or 10 gallons at a time. All of the juice of the apples can be gotten out, but not so rapidly as with the other styles on this page. It is really intended more for grinding grapes and other small fruit for wine, and is so constructed as not to crack the seed.

- No. 0—Single Cage Mill..... \$8.00
- No. 1—Single Cage Mill..... \$5.00

BERRY PRESS



- No. 1.....\$3.00
- No. 2..... 3.25
- No. 3..... 6.00

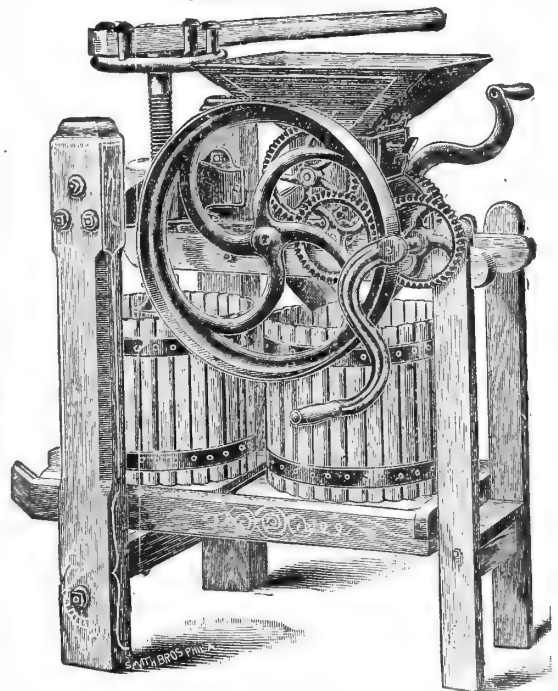
REMOVABLE BASKET HANDLES



Easily and quickly adjusted. Saves fruit and time. Baskets carried without mashing fruit.

Price.....15c.

"SENIOR" HAND AND POWER CIDER MILL



SENIOR.

This is our largest-sized Mill, adapted for hand or power, with a detachable handle on either side. The top set of rolls first mash the fruit fine, and the bottom set grinds it, thoroughly breaking all the cells, so that the cider is entirely extracted. \$18.00.

"MEDIUM" DOUBLE CAGE HAND CIDER MILL

Similar to the Senior described above, but has one handle. \$15.00.

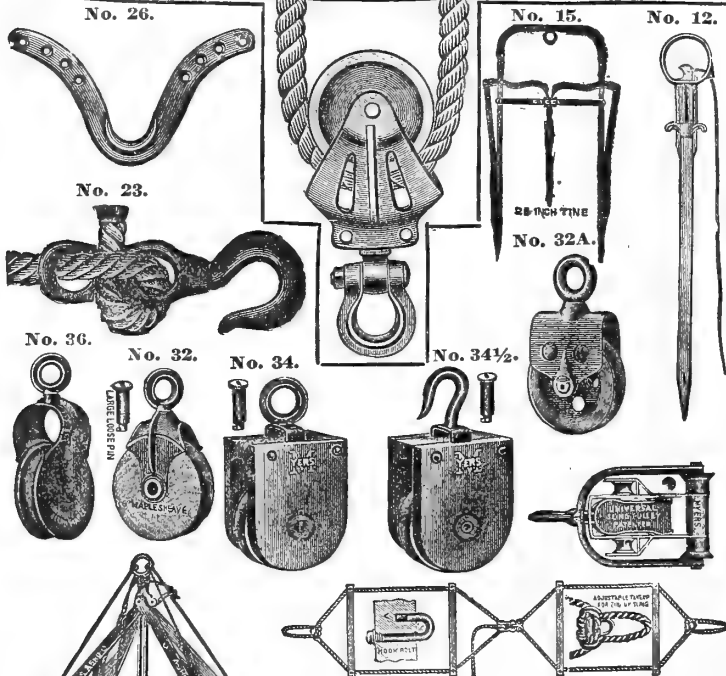
"JUNIOR" DOUBLE CAGE HAND CIDER MILL

Built on same principles as Senior and Medium. Has one handle. This is the smallest Double Cage Mill we handle. A first-class mill for family use. \$12.00.

"DIAMOND" Wide Mouth Swivel and Reversible Carrier with Independent Single Trucks.

The trucks are built from one solid piece of best malleable iron and cannot spread on the track with a heavy load. The track wheels run on turned steel axles and the rope wheels have chilled hubs and run on bushings that fit in recesses of the frame, thereby taking all wear and strain off the bolt. The lock is positive and is forced into action by the pulley block coming in contact with the gripping dogs, which will hold the pulley perfectly until again released by the stop. The wide mouth will receive the fork pulley when approaching from any direction, and swings with the load when locked. Made for both wood and steel track.

Steel Track Car... \$4.25
 Wood Track Car... 4.25
 Steel Track, per ft. .12½
 Special discount for cash.



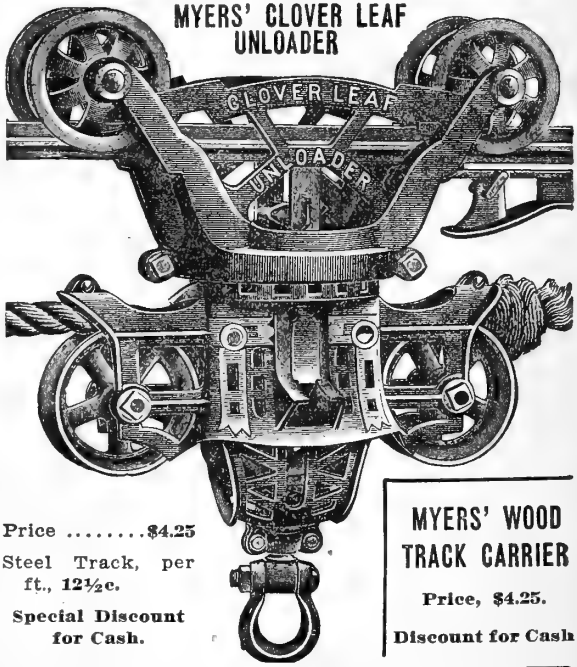
- No. 15—Double Harpoon Hay Fork, 25-in. tines \$1.00
- No. 16—Double Harpoon Hay Fork, 31-in. tines 1.50
- No. 17—Double Harpoon Hay Fork, 34-in. tines 2.00
- No. 12—Nellis Single Harpoon Fork. 2.00
- No. 42—Snatch Block.75
- No. 7—4-Tine Aut. Grapple Fork. . 4.50
- No. 8—6-Tine Aut. Grapple Fork 5.25
- Centre Trip Sling, 4-ft. bars 2.00
- Centre Trip Sling, 5-ft. bars 2.50
- Centre Trip Sling, 6-ft. bars 3.50
- Universal Sling Pulley 2.00
- Ideal Sling Pulley 2.00
- Baltimore Sling Pulley 2.00
- No. 21—14-in. Hanging Hook, wood track. Each.08
- Hanging Hook, steel track, Each08
- No. 20—Floor Hook. Each.08
- Extra Trips or Stops for Cars .50
- Couplings for Track.10
- Rafter Nails, per lb.10
- Steel Track, per foot. 12½c.
- No. 36—Knot Pass'g Pulley. \$.25
- No. 34½—Wood Frame Pulley, with Hook.25
- No. 34—Wood Frame Pulley, with Eye.25
- No. 32A—All-Iron Pulley, has 5½-in. sheave, swivel eye.20
- No. 32—Maple Sheave Pulley, 6-in. sheave.20
- No. 27—Rafter Bracket, steel .06
- No. 25—Rafter Bracket, malleable.06
- No. 23—Swivel Rope Hitch. .20
- Hoisting Single Tree. 1.25
- No. 26—Rafter Grapple, steel .60



The Gritco Swivel Reversible Steel Track Hay Carrier No. 4

FOR FORK OR SLING.
 This car is easily and quickly reversed from the floor, contains no lugs or pins to break or wear out. Made heavier than cars ordinarily sold through this section.
 Made entirely of malleable iron and high grade in every respect. Track traveler and rope pulley sheaves revolve on turned iron bushing. This car will not pass the trip-block while in operation.
STEEL TRACK CARRIER, \$4.25
WOOD TRACK CARRIER, \$4.25
 Special Discount for Cash.

STEEL TRACK
Per Foot
12½c



MYERS' CLOVER LEAF UNLOADER

Price \$4.25
 Steel Track, per ft., 12½c.
Special Discount for Cash.

MYERS' WOOD TRACK CARRIER
 Price, \$4.25.
 Discount for Cash

Material Required for a Steel Track Outfit for Different Length Barns.
For a 40-Foot Barn—One Carrier, 40 feet of steel track, 21 hanging hooks, 21 rafter brackets, 5 knot passing pulleys, 1 D. H. Fork, 6 floor hooks, 110 feet 13-16-inch manila rope, 40 feet ¾-inch reverse rope.
For a 50-Foot Barn—One Carrier, 50 feet of steel track, 25 hanging hooks, 25 rafter brackets, 5 knot passing pulleys, 6 floor hooks, 130 feet 13-16-inch manila rope, 50 feet ¾-inch reverse rope.
For a 60-Foot Barn—One Carrier, 60 feet of steel track, 31 hanging hooks, 31 rafter brackets, 5 knot passing pulleys, 6 floor hooks, 160 feet 13-16-inch manila rope, 60 feet ¾-inch reverse rope.

OILERS.

We Carry in Stock a Full Line of Oil Cans for All Kinds of Farm Machinery. For Harvester Oils, see page 101.

CHASE ZINC OILERS.

PRICES.

No.	List-Doz.	Retail.
00.....	\$1.00	10c. each.
0.....	1.25	10c. "
1.....	1.50	10c. "
2.....	2.00	15c. "
3.....	2.25	15c. "
4.....	2.75	20c. "
5.....	3.50	25c. "
6.....	4.50	30c. "

ROUND.
No. 698 — Bent or Straight Stem.
Round, 10c.

OVAL.
No. 699 — Bent or Straight Stem.
Oval, 10c.

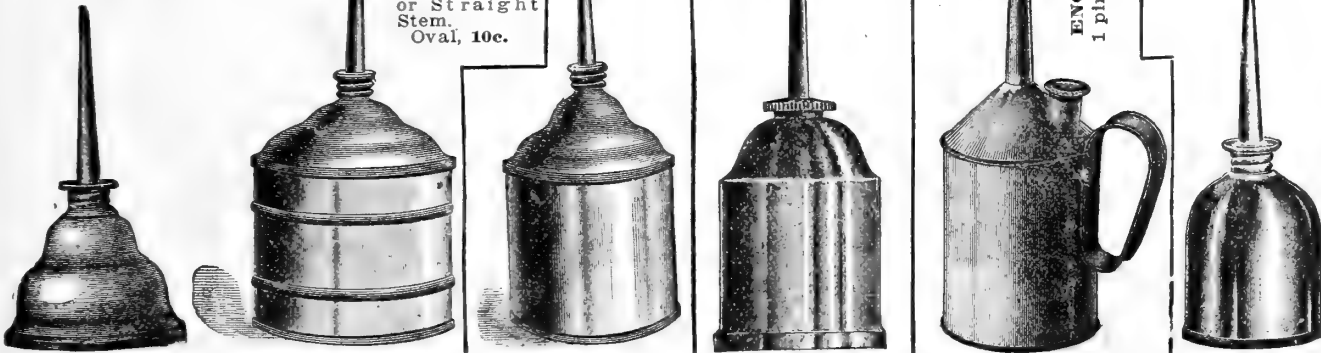
LITHO OILERS.
Handsomely Lithographed.
Price, 10c.

No. 601.
Copperized Steel Mowing Machine Bent or Straight Stem. 20c.

ENGINEERS' OILERS.
1 pint, 30c. 1 quart, 35c.

No. 701.
Copper-plated Steel Mowing Machine Oilers.
15c. each.

Griteo, Enamelled Red.
10c.



THE "ELGIN" ADJUSTABLE WRENCH.

WILL HOLD PIPE OR NUTS.

RE-THREADING ATTACHMENT WITH INTERCHANGEABLE DIES.

MONKEY WRENCH PIPE JAW.

RE-THREADING ATTACHMENT WITH INTER-CHANGEABLE DIES.

It Can Be Attached to All of the Elgin Wrenches of 1905 Pattern.

Price of attachment with one die retail price, 75c. each. Extra dies, retail price, 40c. each. It is a Ratcheting Attachment and will re-thread damaged bolts in corners and angles without removing the bolt from its position to a vise. Extra dies can be had in 1-4, 5-16, 3-8, 7-16 and 1-2 in.

MONKEY WRENCH PIPE JAW.

When there is only a little work to do (not enough to warrant buying a pipe wrench) "The Elgin" Jaw on a monkey wrench will do it. Price, each, 30c. Will fit any ordinary 10 or 12-inch monkey wrench.

THE "ELGIN" ADJUSTABLE WRENCH.
Both Jaws Hardened. Length 7 Inches. Wrench is All Steel. Weight 10 Ounces.
It will fit a pipe up to 3/4 inch or a nut that is 1 1/4 inches across. Adjusted to fit the articles; you get all the leverage and no ends to interfere. Price, 75c. each. Extra Jaws, 25c; they make an old wrench as good as when you bought it.

"W. & B." MACHINISTS' KNIFE HANDLE WRENCHES.

This wrench has the head and bar drop-forged in one piece from selected steel. The jaws are case-hardened and the entire wrench is ground, polished and highly finished.

Retail	6 in.	8 in.	10 in.	12 in.	15 in.	18 in.	21 in.
price, each	\$0.50	\$0.55	\$0.65	\$0.75	\$1.50	\$1.75	\$2.00
List pr., doz.	9.00	10.00	12.00	14.00	24.00	30.00	36.00

WROUGHT SCREW AGRICULTURAL WRENCHES.

Retail price, each	6 in.	8 in.	10 in.	12 in.	15 in.
	\$0.30	\$0.40	\$0.50	\$0.60	\$0.85
List price, per doz.	10.00	12.00	14.00	17.00	24.00

COMBINATION WRENCH.

10—Wire or pipe from 1/4 to 1 inch outside diameter	Doz.	Each.
	\$25.25	\$1.75
12—Wire or pipe from 1/2 to 1 1/4 inch outside diameter		28.50 2.00
15—Wire or pipe from 3/4 to 2 1/4 inch, outside diameter		40.50 2.75
18—Wire or pipe from 1 to 3 inch outside diameter		72.00 5.00

This Wrench combines all desirable features of both pipe and nut wrenches. Head and bar forged as a unit. It is adapted to a wide range of work.

ACME STEEL WRENCHES.

Inches	6	8	10	12	15
Retail price, each	\$0.50	\$0.65	\$0.75	\$0.90	\$1.25
List price, per doz.	10.00	12.00	14.00	17.00	24.00

"BULL-DOG" WRENCHES.

No. 0—Pocket size, 4 in. long. List price, per doz., \$3.00. Retail price, 15c. each.
No. 1—5 1/2 in. long. List price, per dozen, \$4.00. Retail price, 20c. each.
No. 1 1/2—5 3/4 in. long. List price, per dozen, \$5.00. Retail price, 25c. each.
No. 2—9 in. long. List price, per dozen, \$12.00. Retail price, 60c. each.

W & B' MACHINISTS' SCREW WRENCH. "W & B" REGULAR WRENCH.



"W & B" COMBINATION WRENCH. IMPROVED "ACME" STEEL WRENCH



"ALWAYS READY" WRENCH. "BULL-DOG" WRENCHES.



TWIN WRENCHES.



"ALWAYS READY" WRENCHES. Special Steel, Forged, Tempered in Oil.

No. 1—5 in. long. List price, per doz., \$4.60. Retail price, 30c. each.
No. 2—7 in. long. List price, per doz., \$6.75. Retail price, 40c. each.

TWIN WRENCHES.
Twin, 10 in. long. List price, per doz., \$18.00. Retail price, 75c. each.

PUNCH.
Retail price, each.... \$0.10 \$0.15
List price, per doz.... 3.00 4.50

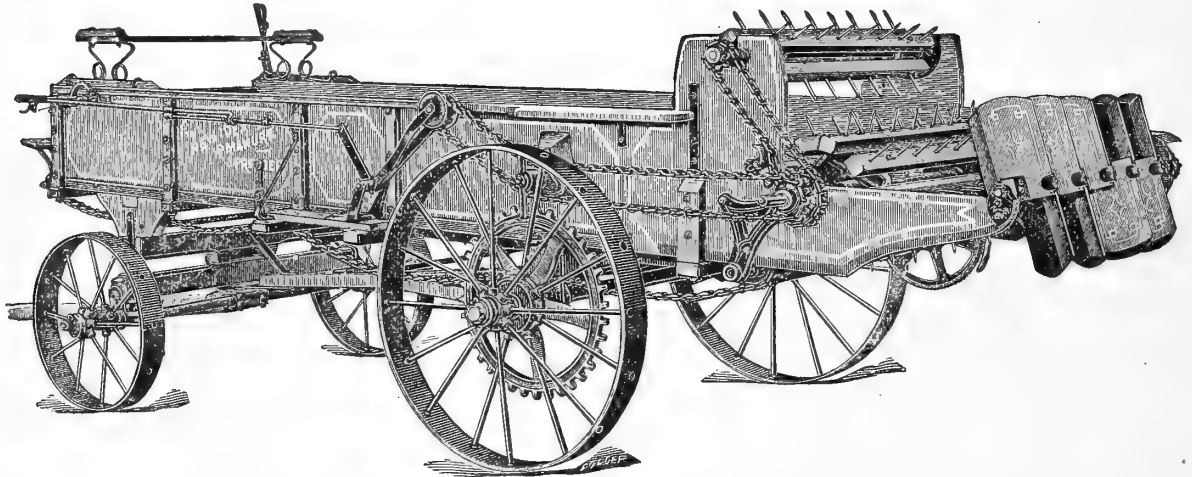
COLD CHISEL.
List price, per doz.... \$4.00 \$5.00
Retail price, each.... .15 .20

SPRING COTTERS.
Prices on application.

NEW IDEA MANURE SPREADER

A MANURE PULVERIZER

A MANURE DISTRIBUTOR



ABSOLUTELY THE BEST MANURE SPREADER EVER OFFERED. SIMPLER, LESS LIABLE TO BREAKAGE, LIGHTER DRAFT, EASIER TO HANDLE AND DOES BETTER WORK THAN ANY OTHER SPREADER.

The **New Idea Spreader** is built like a wagon with reach pole gear and has a solid bottom to body, making it stronger and lighter draft than others. There is no heavy bottom to return and the whole machine is under control of two levers; one to regulate the number of loads per acre, the other to throw the machine in and out of gear. After the feed regulating lever is set, the operator has only the one lever to attend to. This is a point for thinking farmers, and this alone makes the **New Idea Manure Spreader** very much more desirable than any other spreader. Front wheels turn under the body up to the reach pole, making it a short turn machine. This is another valuable feature.

The **New Idea Manure Spreader** is simpler than any other make. It has a straight all-chain, chain drive with not a cog wheel, secondary shaft, clutch or additional part in it. The pull is direct from the axle sprocket to the cylinder sprocket. There are no clutches nor cogs to wear out or break. This feature will appeal to every farmer who has used a Manure Spreader. The **New Idea Manure Spreader** is most convenient and is ready for loading and no returning of the conveyor is necessary. It is the only Manure Spreader on which the load can be rounded up—you can round up the load on the **New Idea Manure Spreader** and do first-class work without likelihood of breakage.

The **New Idea Manure Spreader** does better work than any other make. It is the only spreader constructed with double beater and it pulverizes the manure thoroughly and distributes the same evenly in a wide stream. The greatest argument in favor of the **New Idea Manure Spreader** is to see it work. Drop us a card, and if there is one in your neighborhood, we will tell you who has it, so that you can look at it. It will track with the ordinary farm wagon, which is a big point in its favor, and at the same time it spreads wider than the wide body spreaders. As stated above, the front wheels will turn under, making it a very short turn machine. If you are in the market for a Manure Spreader it will pay you to buy no other kind, because the **New Idea Manure Spreader** will save you time and money.

PRICES OF NEW IDEA MANURE SPREADERS.

55 Bushel capacity, with D. Trees and Neck Yoke.....	\$120.00
70 Bushel capacity, with 3 Horse Eveners.....	125.00
100 Bushel capacity, with D. Trees and Neck Yoke...	145.00
Brake, additional.....	5.00
Traction Band, additional.....	2.50

SPECIAL DISCOUNT FOR CASH.

In comparing the capacities of the **New Idea Manure Spreaders** with those of other makes, bear in mind that on account of your being able to round up the load on the **New Idea Manure Spreaders**, these machines will handle more manure, size by size, than any other Spreaders on the market.

READ THE FOLLOWING TESTIMONIALS:

Denton, Md., Nov. 25, 1908.

Griffith & Turner Co.,
Baltimore, Md.

Gentlemen:—

I have been using the Manure Spreader that I got some time ago and I like it very much. It certainly does fine work and is light running. I am going to make a good effort to sell some machines this winter.

Very truly yours,
J. W. ARNOLD.

Port Deposit, Md., Dec. 4, 1908.

Griffith & Turner Co.,
Baltimore, Md.

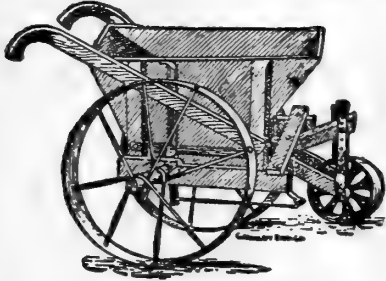
Gentlemen:—

The **New Idea Manure Spreader**, bought of you last spring is doing the best of work. We haul manure from town on it over great hills, distance two miles, with two horses. It runs as light as the farm wagon and hauls twenty bushels more. It is the best manure spreader on the market.

Yours respectfully,
W. P. CUMMINS.

Lindsey's Compost Drill

A SPLENDID MACHINE FOR TRUCKERS WHO WISH TO DEPOSIT MANURE IN ROWS.



Furnished with iron wheels, built directly on the tubular axle. The spokes are made of steel and securely looped around the axle. The out ends extend through the rim, and are provided with vats, which serve to adjust the wheels and also to prevent slipping. In the center of the

axle are four teeth clamped around it, and on each side of these, three inches away, are two other teeth projecting through the axle. There are also two teeth in the frame that pass between the central teeth and the side ones, which help to do the grinding. The front wheel is made of iron and is supported by four braces, two of which have a series of holes, which are used to adjust the wheel to suit depth of furrow. The hoppers, which are 3 feet long, 18 inches wide and 18 inches deep, holding four bushels, on the No. 1, and 3½ feet long, 22 inches wide and 22 inches deep, holding seven bushels, on the No. 2, are balanced on the wheels.

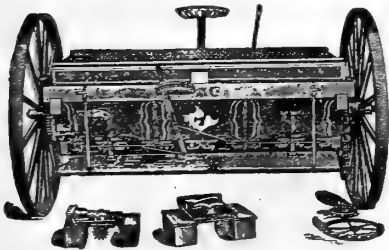
The bottom of the hopper is closed by two iron plates which regulate the discharge and are controlled by a lever which is held where left by friction. The teeth are always in the center of the opening.

It is simple, strong and durable. It will do the work of six hands. It will do better work than can be done by hand or any other machine. It does the most laborious work on the farm and at the busiest season. It saves compost as well as time. It is light on man and horse. It pulverizes the compost as it distributes it. The amount can be regulated without stopping the machine. It works almost anywhere a plow can be used. It works well in any reasonable compost. It can be unclogged without unloading and very often without stopping. It can be operated by any boy who can plow. It has a graduating lever.

Weight—No. 1, 100 lbs.; No. 2, 150 lbs.

Price, No. 1—4 bus. capacity.....\$15.00
Price, No. 2—7 bus. capacity..... 20.00

The Baltimore Lime and Ash Spreader



or commercial fertilizer. The lime is fed out on a distributing board or shaker, which can be set at different elevations, and this, in vibrating, distributes the lime evenly and regularly. The lime falls but a few inches, thus avoiding dust to either driver or horses. If the wind is very strong an apron can be tacked, if desired, in front of the hopper. Ordinary lumps going through the attachment sieve will not interfere with the sowing. We also furnish an extra cap and large wheel, whereby fertilizers of every description and plaster can be sown in quantities as low as 300 pounds per acre, and, if coarse, 250 pounds per acre. Hopper holds 18 bushels slaked lime.

Price\$75.00

Special Price for Cash.

Single Row Fertilizer Distributor

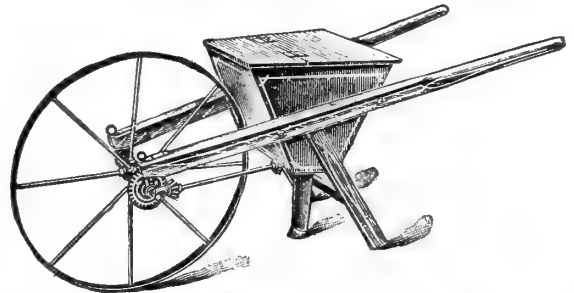
FURNISHED WITH SCORING SHOVEL.

To open the row and at the same time distribute the fertilizer evenly; also a rear shovel to mix the fertilizer with the soil, which is very important.

Price, complete..... \$15.00



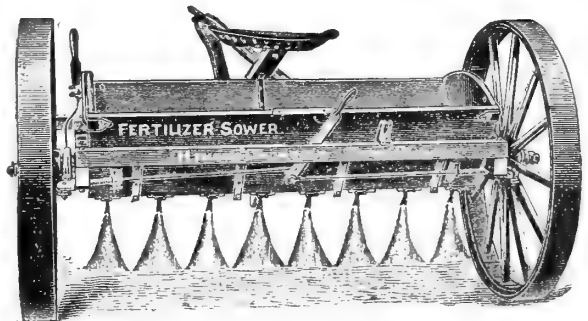
Baltimore Pea and Fertilizer Drill



The agitator is new, being of steel in the form of two knife-shaped arms sweeping around under the mass of the fertilizer and throwing it upon the revolving disc below. A shut-off has lately been added, whereby the waste of fertilizer is stopped when turning at ends of rows. As shown in cut, loops are bolted to frame for the purpose of attaching a horse. Excellent for sowing fodder corn or ensilage.

Price\$6.50

FERTILIZER AND ASH DISTRIBUTOR



This Fertilizer Distributor will sow evenly fertilizer, Paris Green, etc. The machine is easily operated. The lever on the rear throws the machine in and out of gear. The lever on the left side changes the feed to a small quantity for sowing, even Paris Green, and will sow as much as 8,000 pounds of fertilizer per acre.

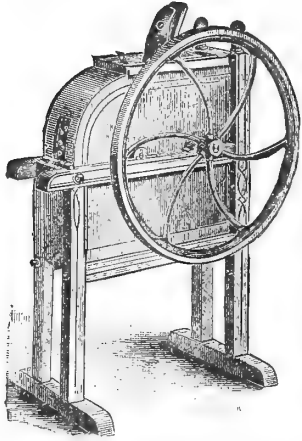
No. 1—Distributor, 3 feet 6 inches.....\$35.00
No. 2—Distributor, 4 feet 6 inches..... 42.00
No. 3—Distributor, 5 feet 10 inches..... 47.50
No. 4—Distributor, 8 feet 2 inches..... 55.00

Those persons who use unsifted lime can order extra screen, which is a little larger than the box.

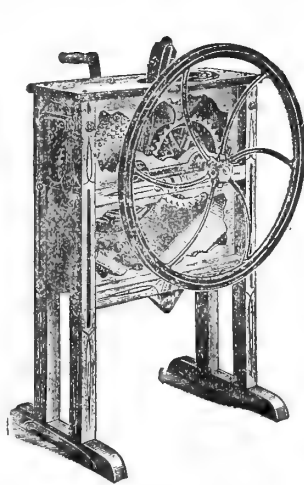
Price, extra screen.....\$6.00

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

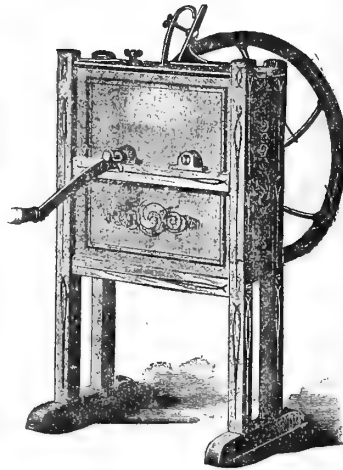
THE BALTIMORE SHELLERS



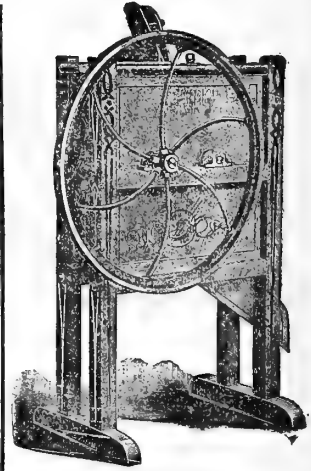
No. 3. ONE HOLE.
Separates corn and cob. Fan will clean corn for market. Corn discharged beneath Sheller, cobs at end. Easily adjusted for large or small ears. Capacity, 125 bus. a day. Plain, \$6.50. With fan, \$7.00.



No. 4. ONE HOLE.
Screens corn; side delivery; light running; strong steel shafts. Capacity, 125 bushels a day. Plain, \$6.50.



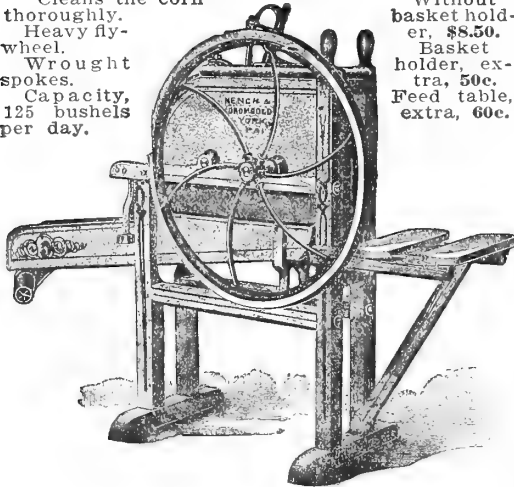
No. 5. ONE HOLE.
Capacity, 125 bushels per day; single spout; left hand. Corn and cobs separated. \$6.00.



No. 6. ONE HOLE.
Runs shelled corn and cobs together. Capacity, 125 bushels per day. Price, Plain Sheller, \$5.50.

No. 2. SINGLE HOLE

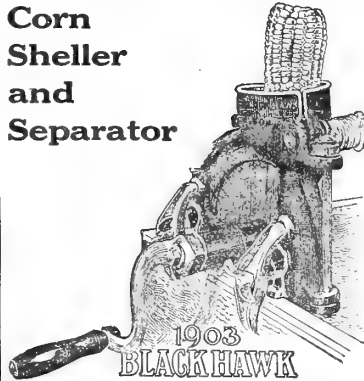
Cleans the corn thoroughly. Heavy fly-wheel. Wrought spokes. Capacity, 125 bushels per day.



Without basket holder, \$8.50. Basket holder, extra, 50c. Feed table, extra, 60c.

"BLACK HAWK"

Corn Sheller and Separator



1903
BLACK HAWK
CORN SHELLER.

Weight, 14 Pounds.
SHELLS FAST, CLEAN, AND EASILY.

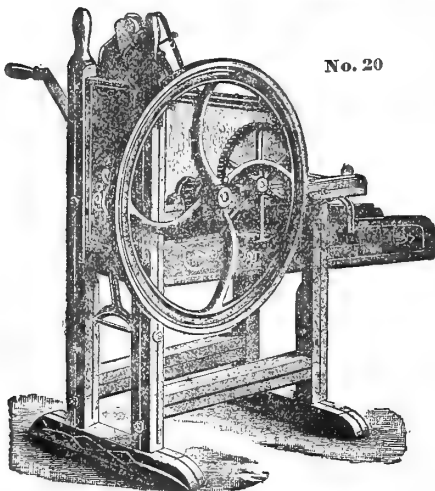
Black Hawk is simple, easily adjusted, and will shell clean all kinds of field corn. Price, \$2.00.

Old Dominion Hand Corn Sheller

Style F.



See regulating thumb-screw to set sheller for either large or small ears. Shells clean. Shells popcorn. Clamps with bolts and wrench with each machine. Chilled shaft and bearings. Wt., crated, 20 lbs. Price, \$2.00.



No. 20

RED CHIEF CORN SHELLER

A first class Sheller. Handy, convenient. Can be fastened to box or tub.

Price.....\$1.50

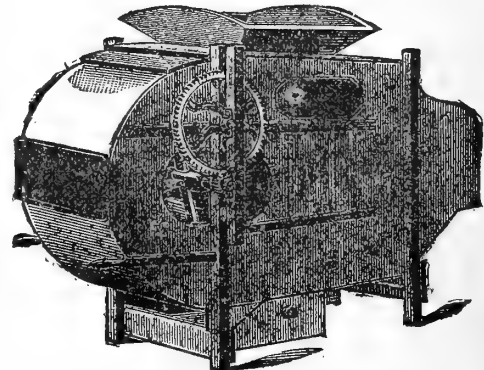
No. 20 DOUBLE SPOUT

Hand and power, with shaker belt and flywheel. Capacity, 200 bushels per day. Capacity by power, 500 to 600 bushels. No. 18 similar to No. 20, but without shaker and with screen at bottom to take out dust or dirt.

PRICE.

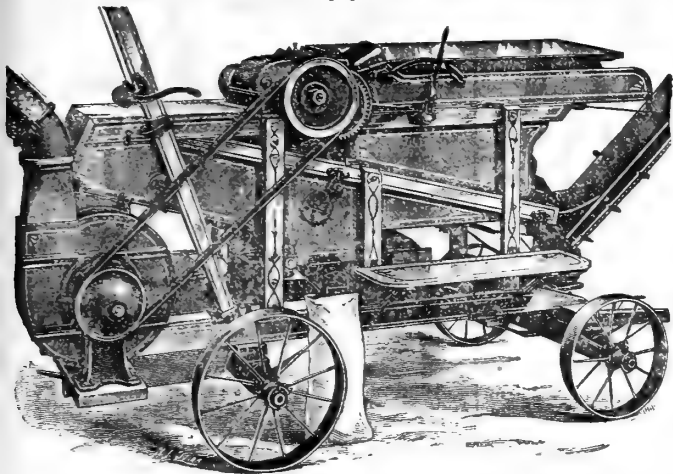
No. 20, with shaker.....\$14.00
No. 18 12.50

BALTIMORE IMPROVED GRAIN FAN



Will clean from 60 to 100 bushels per hour. Made of best material and finished in a neat and tasty manner. Price, \$20.00. Special Price for Cash.

The Celebrated Appleton Corn Husker



This Husker will do the work satisfactorily. It is no experiment. It is superior to others from every standpoint. It is a thoroughly practical machine. We will be pleased to send anyone the names of representative farmers who are using the Appleton Husker and will testify in its favor. We know that most Huskers have failed to give satisfaction. **The Appleton Husker never fails to measure up to the expectation of the purchaser.** Write for interesting Husker Catalogue.

We guarantee that under the same conditions the Appleton Husker will do more and better work than any other Corn Husker on the market; that it is simpler and requires less power. It is easier and safer to feed.

- No. 14—Two-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft. blower, with belt and wheel mounting **\$220.00**
- No. 14—Husker with shredder head instead cutter head **235.00**
- No. 14—Husker with both cutter and shredder head... **245.00**
- No. 18—Four-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft. blower, with belt and wheel mounting **290.00**
- No. 18—Husker with shredder head instead cutter head **305.00**
- No. 18—Husker with both shredder and cutter head... **320.00**
- No. 24—Six-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft. blower, with belt and wheel mounting **390.00**
- No. 24—Husker with shredder head instead cutter head **405.00**
- No. 24—Husker with both cutter and shredder head... **430.00**
- Blower pipe, extra length, per foot..... **1.25**

No. 32 APPLETON 8-ROLL CORN HUSKER.

The Greatest Money Maker on the Market for Custom Husking.

- No. 32—Eight-Roll Husker, with cutter head, swivel, ear-corn carrier, 20-ft. blower, with belt and 4-wheel mounting, f. o. b. factory..... **\$600.00**
- No. 32—Husker with shredder head instead cutter head, f. o. b. factory..... **615.00**
- No. 32—Husker with both shredder and cutter head, f. o. b. factory..... **640.00**

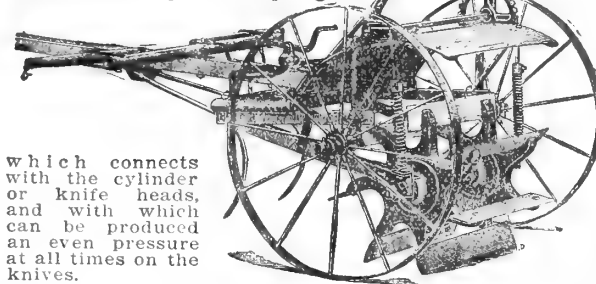
Capacity of Appleton Corn Huskers and Power Required.

Size.	Horse Power.	Capacity Per Hour.
No. 14.....	4-6	12-25 Bushels.
No. 18.....	6-10	40-60 Bushels.
No. 24.....	8-12	60-90 Bushels.
No. 32.....	15-20	80-125 Bushels.

Above power for cutter head. For shredder head we recommend 4 H. P. more.

Gritco Stalk Cutter

6-blade, single row..... **\$24.00**
 7-blade, single row..... **\$29.00**
 Practically an all-steel frame machine, making it neat of construction and giving it ample strength. The wheels are all steel, with removable box and 2-inch tire. The lever is within easy reach of the operator and is connected with pressure spring

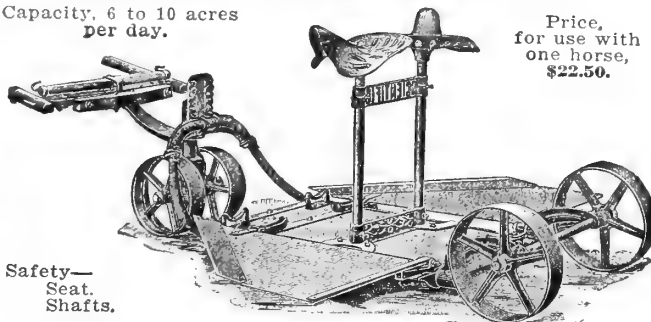


which connects with the cylinder or knife heads, and with which can be produced an even pressure at all times on the knives.

SCIENTIFIC CORN HARVESTER

Capacity, 6 to 10 acres per day.

Price, for use with one horse, **\$22.50.**



Safety—
Seat,
Shafts.

Knives two feet apart at points and 5 feet 9 inches apart at heel.

Flanged rear wheels for hillside work if ordered. Can be adjusted to cut from 3 inches to 14 inches high.

With this corn harvester more corn can be cut in the same time and with less help than with binders. The Scientific only costs about one-fifth as much as a binder. Besides this, the fine, big ears are not knocked off, nor will the fodder mold from tight binding.

Canton Hoist

No. 33—Two sheaves above, two sheaves below; for 1/2 to 3/4 rope; capacity, 1,500 lbs. One man can lift 500 lbs. 4-inch sheaves. Factory list, **\$6.00.** Our retail price, **\$4.00.**

No. 37—Two sheaves above, two sheaves below; for 1/2-inch rope; capacity, 800 lbs. One man can lift 400 lbs. 3-inch sheaves. Factory list, **\$4.00.** Our retail price, **\$3.00.**

Rope not included in price.



IRON-STRAPPED BLOCKS

Common Iron Bushed

Size of Sheave, Inches.	Diam. Rope, Inches.	Length Sheel, Inches.	Single.		Double.		Triple.	
			List Price.	Retail Price.	List Price.	Retail Price.	List Price.	Retail Price.
3 1/2 x 1 1/2	3/4	6	\$1.10	\$.55	\$2.00	\$1.00	\$2.90	\$1.45
4 x 1 1/2	7/8	7	1.30	.65	2.40	1.20	3.50	1.75
4 1/4 x 1 1/2	1	8	1.65	.85	2.85	1.45	4.25	2.15
5 x 1 1/2	1 1/8	9	1.85	.95	3.40	1.70	4.75	2.40
5 1/2 x 1 1/2	1 1/4	10	2.75	1.40	4.50	2.25	6.25	3.15
6 x 1 1/2	1 1/2	11	4.45	2.25	7.50	3.75	10.65	5.35
7 x 1 1/2	1 3/4	11	4.45	2.25	7.50	3.75	10.65	5.35
8 x 1 1/2	1 3/4	12	4.45	2.25	7.50	3.75	10.65	5.35
			Patent Roller Bushed.					
3 1/2 x 1 1/2	3/4	6	\$1.50	\$.75	\$2.85	\$1.45	\$4.40	\$2.20
4 x 1 1/2	7/8	7	1.70	.85	3.35	1.70	5.00	2.50
4 1/4 x 1 1/2	1	8	2.25	1.15	4.15	2.10	6.00	3.00
5 x 1 1/2	1 1/8	9	2.50	1.25	4.70	2.35	7.25	3.70
5 1/2 x 1 1/2	1 1/4	10	3.50	1.75	6.00	3.00	8.50	4.25
6 x 1 1/2	1 1/2	11	5.30	2.65	9.20	4.60	13.20	6.60
7 x 1 1/2	1 3/4	11	5.30	2.65	9.20	4.60	13.20	6.60
8 x 1 1/2	1 3/4	12	5.30	2.65	9.20	4.60	13.20	6.60

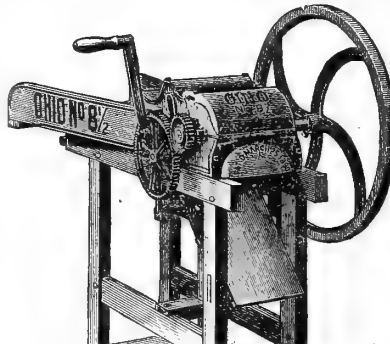
Maryland Lever Cutter
Strong, Cheap and Durable.



Knife, 11 in.
Wt., 55 lbs.
List...\$3.75
Retail . 3.00

Can also furnish the Noxall Cutter, lighter weight, less money.
List.....\$3.34 Retail....\$2.50

"OHIO" HAND FEED CUTTER



No.	Length of Knives, Inches.	Number of Knives.	Length of Cut, Inches.
8 1/2	8 1/2	2	1/4, 3/8, 3/4
10 1/2	10 1/2	2	1/4, 3/8, 3/4
Less 30 per cent. retail.			

BALTIMORE PONY CUTTER



Adapted to cutting hay, straw and corn fodder, and is suitable for persons keeping from one to four or five animals.
Weight, K. D., packed for shipment, 160 pounds. List. Retail.
One knife, 11 1/4 in. long...\$14.00 \$10.00
Two knife, 11 1/4 in. long... 16.00 11.50

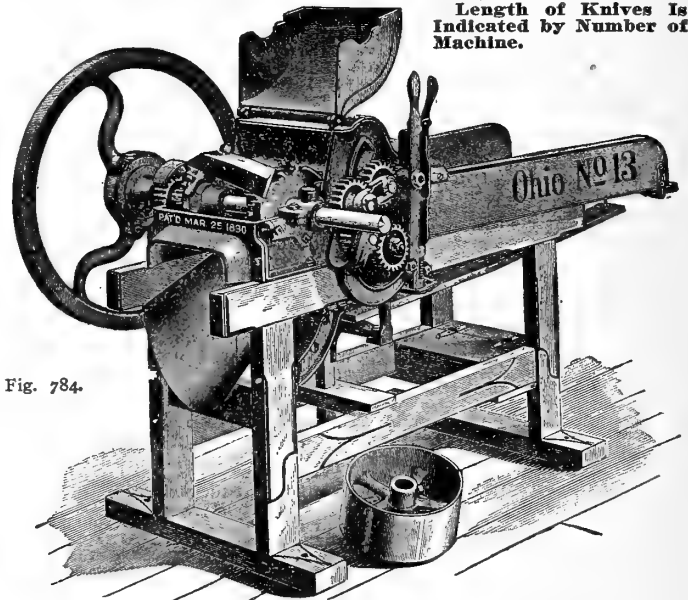
NEW "OHIO" SHREDDER

Our new shredder blade successfully reduces the fodder to the proper conditions with the same power, speed and capacity as the regular Ohio Cutter. Interchangeable on all sizes with the knives. Nothing extra but the shredder blades. Least cost, best results. Does not pulverize the leaves like saw-blade or tooth-shredders, but splits and tears the stalks perfectly. The greatest saving in this new shredder is that perfect work can be done running at normal speed (600 to 700 revolutions), which means that the same power that runs the cutter will run the shredder.

	2 Blades.	4 Blades.
No. 11—With shredder blades only...	\$41.75	\$48.50
No. 13—With shredder blades only...	62.00	69.00
No. 16—With shredder blades only...	87.50	95.00
No. 18—With shredder blades only...	117.00	128.00
No. 19—With shredder blades only...	196.75	206.50

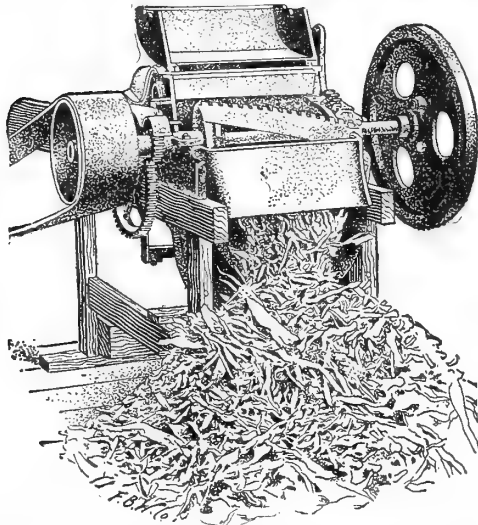
Shredder blades for No. 11, which interchange with knives, each \$2.65. Shredder Blades: For No. 13, \$3.00; No. 16, \$3.75; No. 18, \$4.50; No. 19, \$4.85 each.
Less 30 Per Cent. Retail.

"Ohio" Standard Feed and Ensilage Cutters



Length of Knives Is Indicated by Number of Machine.

Fig. 784.



POWER AND SPEED REQUIRED TO RUN THE VARIOUS ENSILAGE MACHINES

No.	Speed Cutters Alone.	Revolutions.
9—1 H. P.	Speed, 300 to 600	
11—1 to 2 H. P.	Speed, 300 to 600	
13—2 to 4 H. P.	Speed, 450 to 600	
16—2 to 4 H. P.	Speed, 450 to 600	
18—4 to 6 H. P.	Speed, 450 to 600	

Blowers and Cutters.

14—10 H. P.	Speed, 650 to 700
17—10 to 12 H. P.	Speed, 650 to 700
19—16 to 20 H. P.	Speed, 600 to 750

Carriers and Cutters.

13—4 to 6 H. P.	Speed, 450 to 600
16—6 to 8 H. P.	Speed, 450 to 600
18—6 to 10 H. P.	Speed, 450 to 600
19—8 to 12 H. P.	Speed, 600

The power here given on Carriers is applicable when cutting green ensilage.

No. 9—With safety flywheel and pulley, two knives.....	\$35.00
No. 9—With safety flywheel and pulley, four knives.....	40.00
When furnished with extended knife shaft to place flywheel or pulley on either side, extra.....	2.00
No. 11—With two knives, 11 in. long, cuts 1/2, 1, 1 1/2 and 2 in.....	40.00
No. 11—With four knives, 11 in. long, cuts 1/4, 1/2, 3/4 and 1 in.....	45.00
No. 11—With two shredder blades, no knives.....	41.50
No. 11—With four shredder blades, no knives.....	48.00
Reversible carrier, angle or straight delivery, 12 ft. long or less.	33.75
Straight-delivery carrier, without reversible attachments.....	30.25
Additional length over 12 feet, extra per foot.....	1.70
Extra gears to cut four inches long with two knives.....	3.00
Cutting knives, each.....	1.50
Shredder blades, interchangeable with knives, each.....	2.25
No. 13—With two knives, 13 in. long, cuts 1/2, 1, 1 1/2 and 2 in.....	60.00
No. 13—With four knives, 13 in. long, cuts 1/4, 1/2, 3/4 and 1 in., wt. 560 lbs.	65.00
No. 13—With two shredder blades, no knives.....	61.50
No. 13—With four shredder blades, no knives.....	68.00
No. 16—With four knives, 16 in. long, cuts 1/4, 1/2, 3/4 and 1 in., wt. 620 lbs.	90.00
No. 16—With four shredder blades, no knives.....	94.00
No. 18—With four knives, 18 in. long, cuts 1/4, 1/2, 3/4 and 1 in., wt. 700 lbs.	120.00
No. 18—With four shredder blades, no knives.....	125.00
Straight-delivery carrier, 12 feet long or under, for Nos. 13, 16 or 18.....	33.50
Carrier, extra, over 12 feet long, per foot.....	45.00
Swivel carrier, 12 feet long or under, for Nos. 13, 16 or 18.....	1.70
Carrier, extra, over 12 feet long, per foot.....	25
Wood cover, with hooks and eyes to fasten, per foot.....	4.00
Extra gears to cut 4 inches long with two knives.....	
Cutting knives for No. 13, \$1.75; No. 16, \$2.00; No. 18, \$2.50 each.	
Shredder blades for No. 13, \$2.65; No. 16, \$3.00; No. 18, \$3.75 each.	
Less 30 per cent. retail.	

"OHIO" SELF-FEED ENSILAGE CUTTER With Direct Blast Blower Elevator

As compared with the "Ohio" Standard machines, there is more weight and capacity all through. The frame is heavier and well braced. The knife shaft is steel, 1 7/8 inches in diameter. The knife heads are very much heavier, the cylinder larger in diameter, and there are four strong bolts in each knife in addition to the adjusting set screws at the back. The raise of the feed rolls is greater, thus giving more throat capacity and better feeding qualities. The conveyor beneath the knives carries the cut silage into the fan case. A wire screen covers the outer end of the conveyor case.

The traveling feed table is full width of the machine and 8 feet long, taking a bundle of corn readily. The new patent-applied-for shredder blade should be run at 600 to 700 revolutions per minute while shredding, and is a notable advance in construction, enabling the operator to shred dry fodder or cornstalks with the blower. There is a great saving in power also as compared with the tooth or saw blade type of shredder, besides saving the leaves in much better condition. No. 14, capacity 12 to 15 tons per hour, 10-horse steam power; No. 17, capacity 15 to 20 tons per hour, 10 to 12 horse steam power; No. 19, capacity 20 to 25 tons per hour, 12 to 14 horse steam power. Speed, 650 to 700 revolutions per minute. Pulley, 12x8 inches, leather covered.

SIZES AND PRICES.

No. 12, with four 12-inch knives, cuts 1/4, 1/2 and 1 inch, weight 1,425 pounds	\$160.00
No. 14 "Monarch" Cutter, four 14-inch knives, cuts 1/2, 3/4 and 1 inch, and Blower complete with new distributor for top of pipe	185.00
No. 17 "Monarch" Cutter, four 17-inch knives, cuts 1/2, 3/4 and 1 inch, and Blower complete with new distributor for top of pipe	220.00
No. 19 "Monarch" Cutter, four 19-inch knives, cuts 1/2, 3/4 and 1 inch, and Blower complete with new distributor for top of pipe	250.00
10-inch galvanized pipe in 4, 6, 8 and 10 foot lengths for No. 14, No. 17 or No. 19 Cutter, per foot	.90
Extra gears to cut 4 inches long with two knives, Nos. 14, 17, 19	5.50
Shredder blades for No. 14, \$3.50; No. 17, \$4.25; No. 19, \$4.85 each.	
Less 30 Per Cent. Retail.	

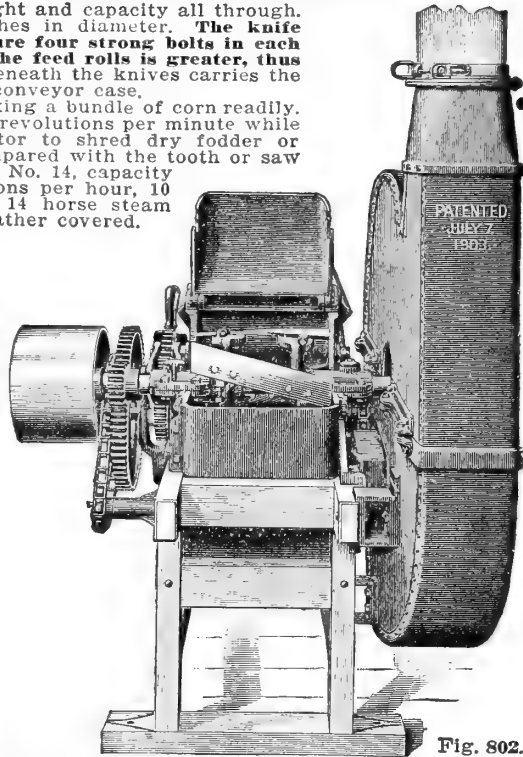


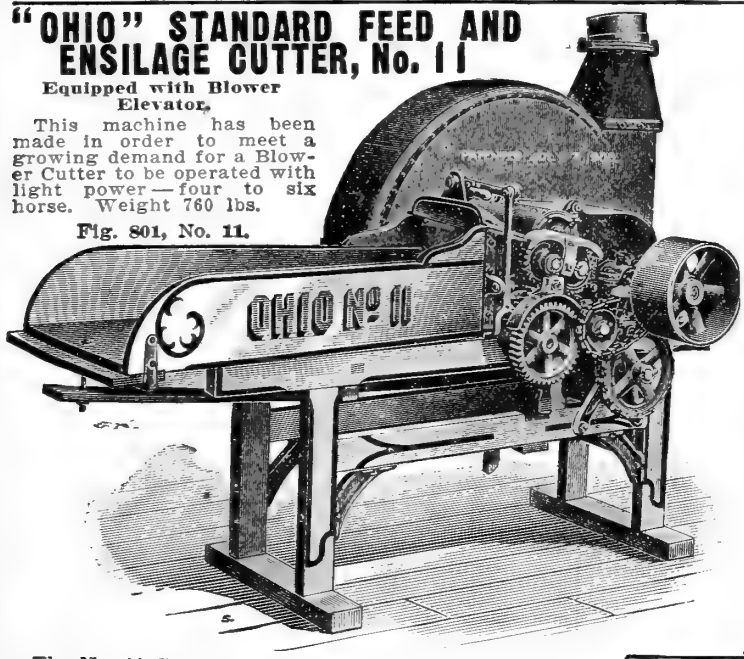
Fig. 802.

"OHIO" STANDARD FEED AND ENSILAGE CUTTER, No. 11

Equipped with Blower Elevator.

This machine has been made in order to meet a growing demand for a Blower Cutter to be operated with light power—four to six horse. Weight 760 lbs.

Fig. 801, No. 11.

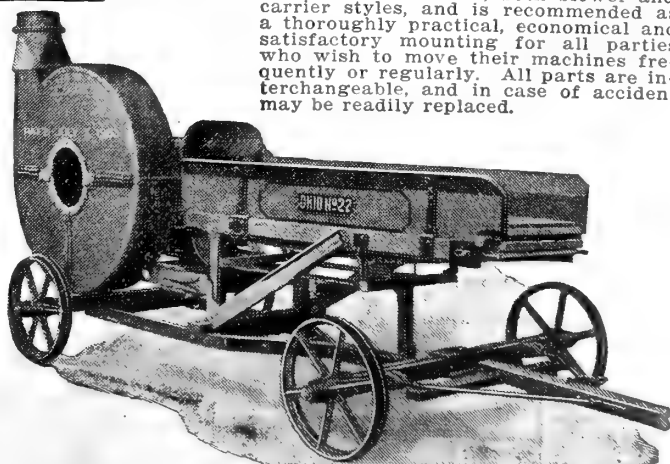


NEW STEEL TRUCK

FOR MOUNTING "OHIO" ENSILAGE CUTTERS.

The frame is of steel throughout. The axles and reach are made of 3-inch steel channels, the axle channels being firmly bolted face to face over a wood core. Distance between front and rear axles is 8 feet 4 inches. The wheel tread is 5 feet 2 inches. The cast iron wheels, 24 inches in diameter, are built to wear. The frame is securely put together, are built to wear. When mounted complete the machine is but 12 inches from the ground and the top of feed table 45 inches from ground. By sinking the wheels or removing them, the axles may be let down on to the ground, in which case the machine would be but 3 inches from ground, the thickness of the steel reach. The highest point of feed table would then be only 36 inches from ground, thus no staging or platform would be required to get corn to the machine.

This outfit is suitable for all sizes of "Ohio" silage cutters with traveling feed tables, both blower and carrier styles, and is recommended as a thoroughly practical, economical and satisfactory mounting for all parties who wish to move their machines frequently or regularly. All parts are interchangeable, and in case of accident may be readily replaced.



Price of Truck, without neck yoke or double trees, weight 600 lbs., \$50.00. Less 30 per cent. Retail.

The No. 11 Cutter has long been our most popular size for general farm use. It is adapted to cutting all kinds of dry feed as well as ensilage, is strongly and durably built, has large capacity and requires but slight power to run. The pipe is 7 inches in diameter and is made of galvanized steel with standing seam on the outside, running lengthwise, being very rigid. It is made in 4, 6 and 10 foot lengths with 7-inch slip joints and a clamping band at each joint. The pipe connection at the fan case is a swivel joint, which gives the pipe the proper angle for convenience and best results, and allows it to turn in any direction. Included with each machine is a hood or elbow which is to connect to upper end of pipe and convey the cut ensilage into the silo.

Set Pipe Nearly Perpendicular for Ensilage. Dry Feed Can Be Blown in Any Direction.

No. 11—With two 11-in. knives, cuts 1/2, 1 and 2 in.	\$95.00
No. 11—With four 11-in. knives, cuts 1/4, 1/2 and 1 in.	100.00
No. 11—With two shredder blades, no knives	96.50
No. 11—With four shredder blades, no knives	103.00

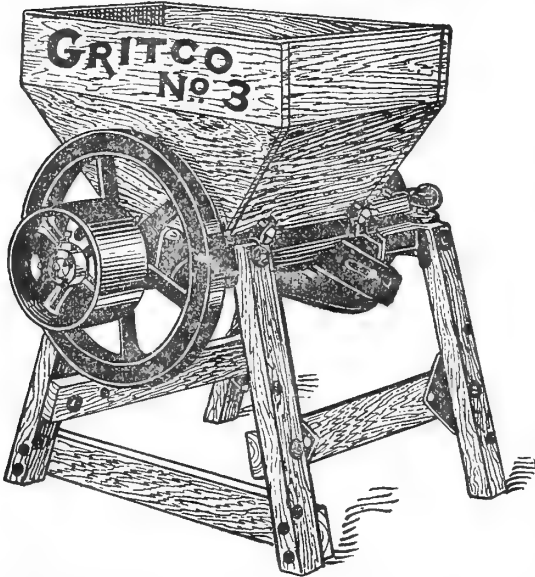
Above prices are for machines complete with Blower and Hood, but no pipe.

7-in. galvanized pipe in 4, 6 and 10-ft. lengths, per ft.	.60
Extra gears to cut 4 inches long with two knives	3.50
Cutting knives, each	1.50
Shredder blades, interchangeable with knives, each	2.25

Note—Where not more than the minimum power—4 horse—is available, we recommend the use of the two-knife machine.

Less 30 Per Cent. Retail.

GRITCO GRINDING MILLS



High-Grade Mills for grinding ear corn or small grain. Run lightest, grind fastest. Made in two sizes: **Gritco No. 3 Mill**, adapted to engines from 5 to 15 H. P. Capacity, 20 to 60 bushels ground feed per hour. **Gritco No. 2 Mill**, for 2 to 6 H. P. engines, will grind 10 to 15 bushels per hour with three H. P.

These mills (see cut) are made of iron and steel with exception of legs and grain hopper. Crushing device designed especially to do work thoroughly with least possible power. Drive pulley, crusher and grinding plates all on one shaft, insuring easy running mill. Grinding plates of No. 2 Gritco Mill are 8 inches in diameter and of No. 3 are 10 inches. Made of very hard metal and with ordinary care are capable of long service. Each Mill is supplied with one set of coarse plates for ear corn and one set of fine plates for small grain. So constructed that plates can be taken out and changed in very little time. Quality of the feed regulated by temper screw at right. End of steel shaft which carries crusher and running plate is encased in an improved form of sleeve in back of which is ball bearing shown in cut, and against which shaft rests thus taking end-thrust, reducing friction to a minimum.

Shaft boxes are both babbitted with good grade of metal. The back of the still plate rests against a ring with planed surface, and by an accurate system of "lining up" the grinding plates "tram" perfectly, thus securing a uniform grade of grinding of any desired quality.

When ordering give horse power, speed of engine and diameter of driving pulley. We handle also a line of French Burr Stone and Iron Mills for heavy power. Price, No. 2, \$30.00. No. 3, \$40.00.

Regular prices for Gritco No. 2 Mills, 8x4, 10x4, 12x4, 14x4. For machines with pulleys 6 inches wide, add to price of machine \$1.00.

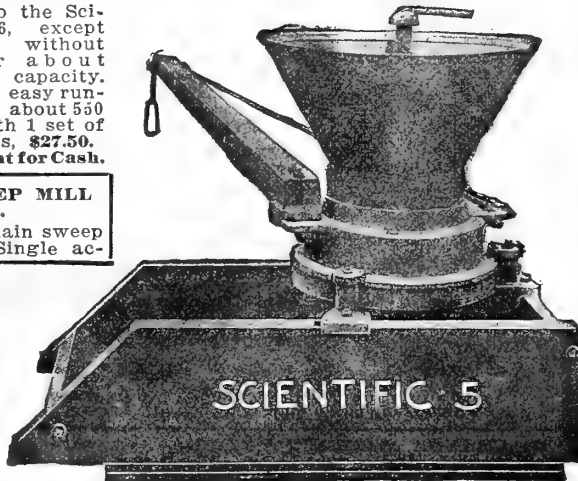
Regular prices for Pulleys for Gritco No. 3 Mills 12x6. For machines with larger pulleys, add 50c. to price of machine.

SCIENTIFIC No. 5 TRIPLE-GEARED SWEEP MILL

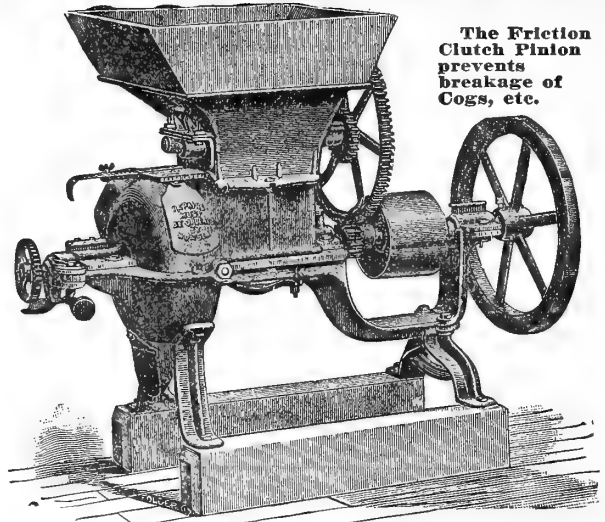
Is similar to the Scientific No. 6, except smaller, and without tilting hopper about one-third less capacity. Double action, easy running. Weighs about 550 lbs. Price, with 1 set of grinding plates, \$27.50. **Special Discount for Cash.**

PLAIN SWEEP MILL No. 7.

We carry a plain sweep power mill. Single action. Grinds successfully ear corn and all kinds of small grain. One or two-horse, capacity, 5 to 8 bushels per hour. Weighs 400 lbs. Price \$20.00. **Special Discount for Cash.**



THE SCIENTIFIC CORN AND COB MILLS



The Friction Clutch Pinion prevents breakage of Cogs, etc.

Prices on Power Mills Subject to Special Discount. Has double breakers, partition hopper, pin breaker and safety bottom. It grinds ear corn or any and all kinds of small grain separately, or any two or more mixed, for feed. Made in four sizes, H, L, N and T.

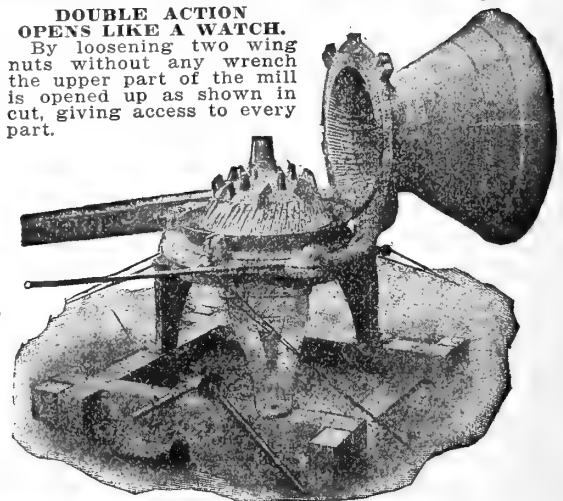
Dimensions and Details.	H No. 1 Mill.	L No. 1 Mill.	N No. 1 Mill.	T No. 1 Mill.
Length over all	45 inches	57 inches	64 inches	72 inches
Width over all	21 "	22 "	26 "	28 "
Floor to center of shaft.	10 1/2 "	21 "	22 "	17 "
Floor to mouth of upper discharge spout	21 "	21 "	23 "	16 "
Floor to mouth of lower discharge spout	9 "	10 "	11 "	6 "
Floor to top of hopper...	43 "	46 "	43 "	48 "
Weight of mill, lbs.....	500 "	550 "	775 "	1,400 "
Diameter of shaft.....	1 1/4 "	1 1/2 "	1 3/4 "	2 "
Driving pulley	8x6 "	8x6 "	10x8 "	14x10 "
Horse power	6 to 8	10 to 12	12 to 15	20 to 25
Speed, r. p. m.	800 to 1,000	1,000 to 1,200	900 to 1,000	800 to 1,000
Capacity, bushel per hour on various ordinary feeds	10 to 20	20 to 40	20 to 50	50 to 75
Diameter grinding plates	10 inches	12 inches	14 inches	20 inches
Prices	\$55.00	\$65.00	\$80.00	\$125.00

Write for fully illustrated catalogue.

Scientific No. 6 New Geared Sweep Mill

DOUBLE ACTION OPENS LIKE A WATCH.

By loosening two wing nuts without any wrench the upper part of the mill is opened up as shown in cut, giving access to every part.

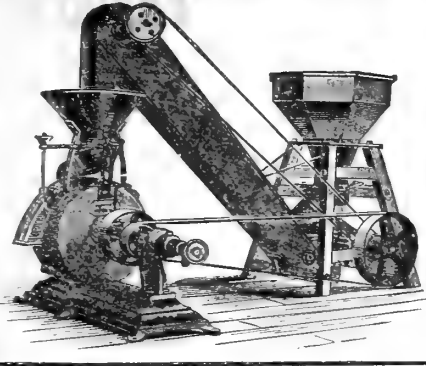


Gearing consists of three gear pinions, which revolve on independent chilled studs. Mill grinds all grains, but is especially effective and rapid on ear corn, and double-action feature, which is applied to these mills, prevents cobs lodging in hopper at end of a run. Its capacity is 10 to 15 bushels per hour. Weight of mill, 700 pounds. **Price of Mill, with extra plates and two baskets, \$32.00.**

Special Discount for Cash.

Sprout Waldron Combined Monarch Corn and Cob Outfit

This Mill consists of one Monarch Standard and one Crusher combined.



MONARCH

These mills are heavy, strong and durable. Furnished with ball bearings, and the shells are bab-bitted, turned and bored. Well built and designed for farm use.

12-inch Monarch Standard French Burr Mill

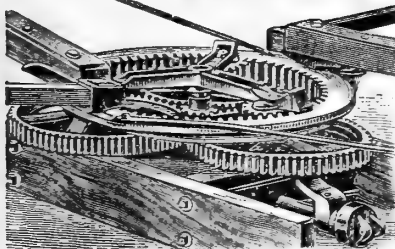
Dimensions.—Length over all, 49 inches; width over all, 24 inches; height over all, 32 inches; distance from floor to center of shaft, 13 inches; floor space base occupies 20x39 inches; driving pulley, 8 inches diameter, 5 inches face, covered with leather; weight, 500 pounds.
Speed, Capacity, etc.—1,000 to 1,200 revolutions per minute; capacity, 5 to 7 bushels of table meal, 12 to 15 bushels feed meal per hour. Power required, 4 to 6 horse-power.
Price—List, \$137.50. Retail, f. o. b. factory, \$68.75; f. o. b. Baltimore, \$76.00.

16-inch Monarch Standard French Burr Mill

Dimensions.—Length over all, 56 inches; width over all, 25 inches; height over all, 39 inches; distance from floor to center of shaft, 15 inches; floor space base occupies 22x45 inches; driving pulley, 10 inches diameter, 6 inches face, covered with leather; weight, 800 pounds.
Speed, Capacity, etc.—1,000 revolutions per minute; capacity, 10 to 12 bushels of fine table meal, 20 to 25 bushels feed meal per hour. Power required, 6 to 10 horse-power.
Price—List, \$180.00. Retail, f. o. b. factory, \$90.00; f. o. b. Baltimore, \$99.00.

KEYSTONE GRINDING MILLS

Write for special circular on Keystone Corn and Cob Mills. Contracted for too late for classification.



TWO-HORSE POWER

Can be used with 1 or 2 sweeps. The tumbling rod makes 60 revolutions to one walk of the horses; has ratchet knuckle. Weight of power, about 600 pounds.
 With 1 Sweep, \$40.00
 With 2 Sweeps, 45.00

FOUR-HORSE POWER WITH TWO SWEEPS.

Is constructed on same principle as our 2-horse power, but is much heavier and stronger. Train of gearing is direct. Weight of power, complete with 2 sweeps, tumbling rod and pulley, is about 925 lbs. Speed of tumbling rod, 81 revolutions to one walk of horses. Length of sweeps, 12 ft., requiring circle of 27 ft. in diameter for walk of horses. Furnished with 20 or 24-in pulley. Price, \$50.00.

SPUR AND BEVEL GEAR JACKS

Are intended to increase speed and transmit power by belt. Spur gear transmits motion at right angle with tumbling rod, and bevel gear transmits in line with tumbling rod and gives band wheel two revolutions to one of tumbling rod.
Price.....\$12.00

Crusher is driven from the mill spindle by 3-inch belt. Crushed corn is carried to crusher mill hopper by elevator, saving extra handling. Need only be run while grinding ear corn; can be stopped or started at any time while mill is in motion.

PRICES MILL AND CRUSHER COMBINED.

	Floor Space.	List Price.	f.o.b. Factory.	f.o.b. Balto.
12-in. Mill, No. 1 Crusher.	86x16 in.	\$200.00	\$100.00	\$110.75
16-in. Mill, No. 1 Crusher.	90x54 in.	256.00	128.00	141.00
20-in. Mill, No. 2 Crusher.	104x67 in.	350.00	175.00	192.50

Prices of Monarch Ear Corn Crusher.—No. 1—30x30-inch floor space; capacity, 12 to 30 bushels corn ears per hour; weight, 350 pounds. Factory list, \$56.00. Retail, f.o.b. Factory, \$30.25; f.o.b. Baltimore, \$33.75.
 No. 2—36x36-inch floor space; capacity, 40 to 90 bushels corn ears per hour; weight, 750 pounds. Factory list, \$80.00. Retail, f.o.b. Factory, \$43.25; f.o.b. Baltimore, \$48.00.

20-inch Monarch Standard French Burr Mill

Dimensions.—Length over all, 67 inches; width over all, 27 inches; height over all, 41 inches; distance from floor to center of shaft, 16 inches; floor space base occupies 24x54 inches; driving pulley, 12 inches diameter, 8 inches face, covered with leather; weight, 1,350 pounds.
Speed, Capacity, etc.—900 revolutions per minute; capacity, 15 to 20 bushels fine table meal, 40 to 50 bushels feed meal per hour. Power required, 10 to 15 horse-power.
Price—List, \$250.00. Retail, f.o.b. factory, \$125.00; f.o.b. Baltimore, \$137.50.

24-inch Monarch Standard French Burr Mill

Dimensions.—Length over all, 70 inches; width over all, 32 inches; height over all, 48 inches; distance from floor to center of shaft, 17 inches; floor space base occupies 27x57 inches; driving pulley, 16 inches diameter, 8 inches face, covered with leather; weight, 1,800 pounds.
Speed, Capacity, etc.—800 revolutions per minute; capacity, 20 to 25 bushels fine table meal, 60 to 70 bushels feed meal per hour.
Price—List, \$320.00. Retail, f.o.b. factory, \$160.00; f.o.b. Baltimore, \$176.00.

30-inch Monarch Standard French Burr Mill

Dimensions.—Length over all, 70 inches; width over all, 39 inches; height over all, 54 inches; distance from floor to center of shaft, 20 inches; floor space base occupies 30x53 inches; driving pulley, 20 inches diameter, 8 inches face, covered with leather; weight, 2,500 pounds.
Speed, Capacity, etc.—750 revolutions per minute; capacity, 25 to 30 bushels fine table meal, 70 to 100 bushels feed meal per hour. Power required, 20 to 25 horse-power.
Price—List, \$420.00. Retail, f.o.b. factory, \$210.00; f.o.b. Baltimore, \$231.00.

MANILA, SISAL AND COTTON ROPE

Always on hand, the best Manila, Sisal and Cotton Rope, in coils or by the piece, at prices consistent with quality.
Prices on Application.
 Approximate length of Manila and Sisal Rope, per pound:
 ¾ diameter, 6 feet to pound; 1 1/8 diameter, 6 feet to pound;
 1 diameter, 4 feet 3 inches to pound.
 We recommend 1 1/8 inch Rope for hay forks.
BINDER TWINE. Prices on Application.

FODDER YARN

Have always on hand large quantities of the above. **Prices on Application.**

CUT RAW-HIDE BELT LACING

¾ -inch, per 100 feet...\$1.75	¾ -inch, per 100 feet...\$3.00
½ -inch, per 100 feet... 2.25	¾ -inch, per 100 feet... 3.75



O. D. CANVAS STITCHED BELTING

Made by the most improved machinery from cotton duck manufactured especially for the purpose.

List.		Retail.		List.		Retail.	
2-in., 4-ply...	.20c. ft.	10c. ft.	6-in., 4-ply...	.60c. ft.	24c. ft.	3-in., 4-ply...	.30c. ft.
3-in., 4-ply...	.30c. ft.	15c. ft.	6-in., 6-ply...	.87c. ft.	34c. ft.	4-in., 4-ply...	.40c. ft.
4-in., 4-ply...	.40c. ft.	20c. ft.	8-in., 4-ply...	.80c. ft.	32c. ft.	5-in., 4-ply...	.50c. ft.
5-in., 4-ply...	.50c. ft.	25c. ft.	8-in., 6-ply...	1.16 ft.	46½c. ft.		

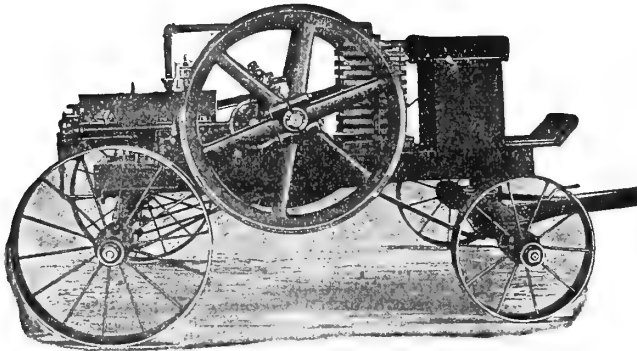
Prices of Other Widths and Piles to Order.
 When Endless Belts are wanted add 3 feet extra for lapping.

RUBBER BELTING

3-in., 3-ply...26c. ft.	15c. ft.	4-in., 3-ply...34c. ft.	20c. ft.	5-in., 3-ply...43c. ft.	26c. ft.	6-in., 4-ply...62c. ft.	37c. ft.
3-in., 4-ply...31c. ft.	18c. ft.	4-in., 4-ply...42c. ft.	25c. ft.	5-in., 4-ply...52c. ft.	31c. ft.		

Larger and smaller sizes on application. **Special Prices for Cash.**

ALAMO PORTABLE GASOLINE ENGINES



Remarkable for their Simplicity, Economical Use of Gasoline, Convenience and Great Power.

Alamo Portable Engines are made in seven sizes, from seven to twenty-five horse power. They are designed especially for portable purposes and therefore the factory is able to make a most desirable distribution of material. The engine is of low down construction. It is nicely balanced, is lighter in weight and therefore can be more easily moved about. A circulating pump for cooling purposes is provided. It is just the engine you are looking for if you have use for a strong, light, durable and efficient engine for all around purposes for custom work.

It is mounted on steel trucks of special construction. The wheels are extra strong with a tire width of four inches. The engine is built with a special low base, and removable cylinder. It is fitted with a cooling device that operates with a very small quantity of water and which permits same to be easily withdrawn in freezing weather.

Write for Special Catalogue and Prices.

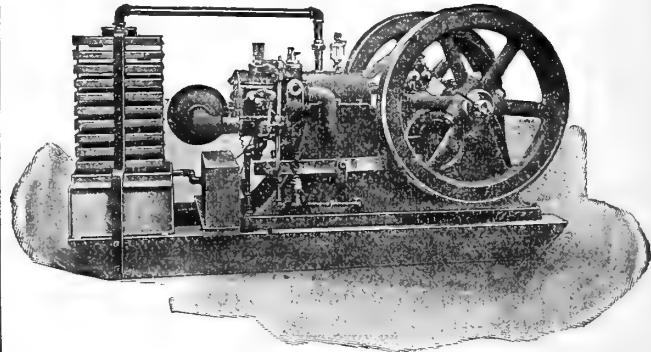
ALAMO STATIONARY GASOLINE ENGINES

Alamo Standard Gasoline Engines are made in a number of sizes, ranging from five horse power to fifty horse power. They are high grade in material, design and construction, built for discriminating buyers who want something reliable, economical and convenient.

The Engines are all four-cycle type, which is most economical and better adapted to general purpose work. The governors are the fly ball type and can be adjusted to change speed while engine is in operation. The very best carbureter is on the Alamo Engine. It always vaporizes the gasoline economically and on account of this carbureter and the splendid method of governing, Alamo Engines will absolutely use less gasoline per horse power than other makes.

Do not fail to get our Alamo Special Catalogue. It is a convincing argument in favor of Alamo Engines—it shows why the Alamo is best.

Write for prices.



ALAMO SEMI-PORTABLE ENGINES.

The above cut shows our skidded or semi-portable outfits. We can furnish the 5 H. P. and the 7 H. P. Alamo Standard Engines mounted this way. Skids are hardwood, shod with steel and provided with substantial draw ball. This makes an ideal self-contained semi-portable outfit that can be readily moved.

Alamo-Victor Vertical Engine

Designed to meet the wants of those desiring a light but powerful Engine. The same high quality of designs, material and workmanship that has always characterized Alamo Engines is shown. Just the thing for running a little fodder cutter, grinder or wood saw. Built in two sizes—3 and 6 horse power; mounted on skids, and are easily moved from place to place.

The Victor Vertical governs automatically, and can be run at a wide range of speed. In economy, the Victor easily shows superiority. The mixing device or carbureter gives just the proper proportion of air and gasoline to form a perfect charge.

When the Victor Vertical reaches the customer it is properly tested, correctly adjusted and ready to start at a turn of the wheel.

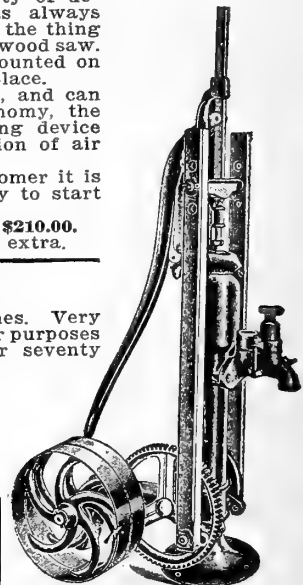
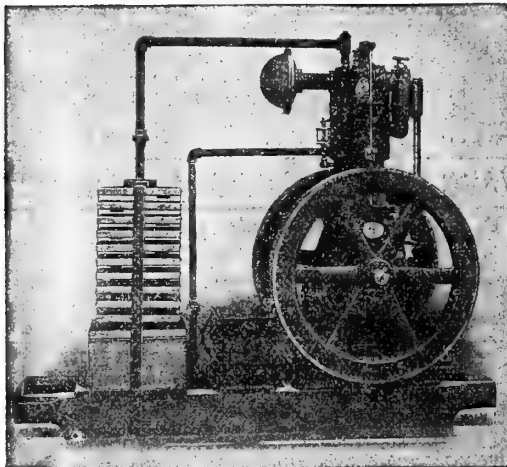
3 H. P. Victor Engine, \$140.00; 6 H. P., \$210.00.
Circulating Pump and Pan Cooler, \$12.50 extra.

No. 1 PUMP JACK

Designed for use with our Gasoline Engines. Very desirable where Engine is to be used for other purposes than pumping. Suitable for wells not over seventy feet deep. Suits almost any windmill pump. Price, \$10.00.

No. 2 PUMP JACK

Similar to No. 1 Jack, but heavier, being designed for deeper wells. Price, \$12.00.



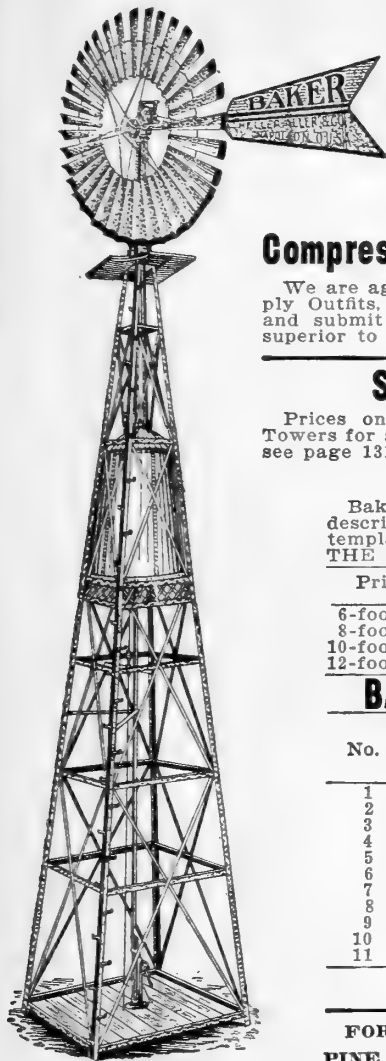
No. 1 Pump Jack.

MYERS' PUMP JACK

Has 12-inch Pulleys, back-geared 6—1.

List.....\$16.00 Retail.....\$12.00

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

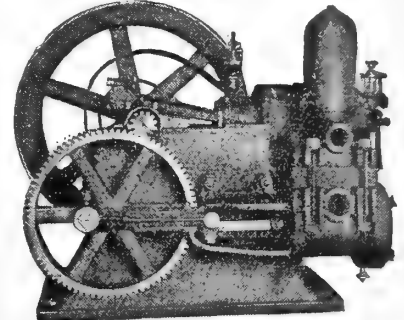


BAKER SUBURBAN OUTFIT.

"NEW MODEL" PUMPING ENGINE

An ideal outfit for pumping from springs, cisterns and shallow wells. This pump has a capacity of 1,200 gallons per hour. Not recommended for wells over twenty-two feet deep. The engine is of nice design and high grade construction and can be used for other light work when not pumping.
 Price.....\$150.00
 Special Engines for Deep Well Work.

**SIMPLE. RELIABLE.
 CONVENIENT. ECONOMICAL.**



NEW MODEL PUMPING ENGINE.

Compressed Air and Water Supply Outfits

We are agents for Lunt-Moss Compressed Air Water Supply Outfits, and will be pleased to mail special catalogue and submit prices to any one interested. This system is superior to the elevated tank system.

Storage Tanks and Towers

Prices on White Pine and Cypress Storage Tanks and Towers for same on application. For Galvanized Steel Tanks, see page 131.

BAKER WINDMILLS AND TOWERS

Baker Windmills and Towers fairly bristle with good points. Lack of space keeps us from describing them here, but we will be pleased to mail a descriptive catalogue to any one contemplating the purchase of a windmill. If you are going to buy a windmill, be sure to buy THE BAKER.

Prices of Baker Windmills.		Prices of Baker Four-Post Towers.				
		Height:— 30 ft. 40 ft. 50 ft. 60 ft. 70 ft.				
6-foot	\$37.00	For 6-ft. Mill....	\$41.50	\$60.00	\$77.75	.....
8-foot	44.00	For 8-ft. Mill....	41.50	60.00	77.75	.....
10-foot	59.40	For 10-ft. Mill....	46.00	66.00	88.00	\$115.00 \$151.00
12-foot	100.00	For 12-ft. Mill....	59.00	83.00	114.00	151.00 197.00

BAKER SUBURBAN OUTFITS

Prices do not include Mill. Add to list prices for 8-ft. Mill, \$44.00; for 10-ft. Mill, \$59.40.

No.	Height of Tower.	Elevation Bottom of Tank.	Capacity of Tank bbls.	List Price with 2-in. Cypress Tank.	List Price with 2-in. Pine or 1½-in- Cypress Tank.	List Price with Galvanized Steel Tank.
1	30	7 ft. 8 in.	16	\$115.00	\$108.00	\$100.00
2	35	12 ft. 1 in.	16	120.00	112.00	105.00
3	35	14 ft.	11	115.00	107.00	100.00
4	40	19 ft. 6 in.	16	140.00	132.00	120.00
5	50	19 ft. 6 in.	38	180.00	172.00	165.00
6	50	26 ft.	20	165.00	158.00	150.00
7	50	19 ft. 6 in.	32	175.00	168.00	160.00
8	60	30 ft.	27	205.00	198.00	190.00
9	60	30 ft.	32	210.00	200.00	195.00
10	60	19 ft. ½ in.	52	230.00	215.00	205.00
11	60	19 ft. ½ in.	64	240.00	230.00	220.00

SPECIAL DISCOUNTS ON APPLICATION.
 Send for special catalogue of Windmills, Tanks and Towers.

FOR PRICES OF CYPRESS, PINE and GALVANIZED STEEL TANKS, See Page 131.

CHASE PUMPS

(Made by F. E. Myers & Bro.)

We call particular attention to the CHASE PUMPS, as here illustrated and described. We recommend these Pumps highly.

Fig. 88. DOUBLE ACTING FORCE PUMP WITH ADJUSTABLE BASE WITH THREE WAY AND WINDMILL TOP WITH PATENT BRONZE VALVE SEAT.

No. C 122, for wells from 25 to 150 feet deep, has a 2½-inch brass lined lower cylinder, tapped for 1¼-inch pipe.
 List price.....\$19.00 Retail price.....\$13.50

No. C 124, for wells from 25 to 75 feet deep, has a 3-inch brass lined lower cylinder, tapped for 1¼-inch pipe.
 List price.....\$19.00 Retail price.....\$13.50

Fig. 169. COG GEAR DOUBLE ACTING FORCE PUMP.

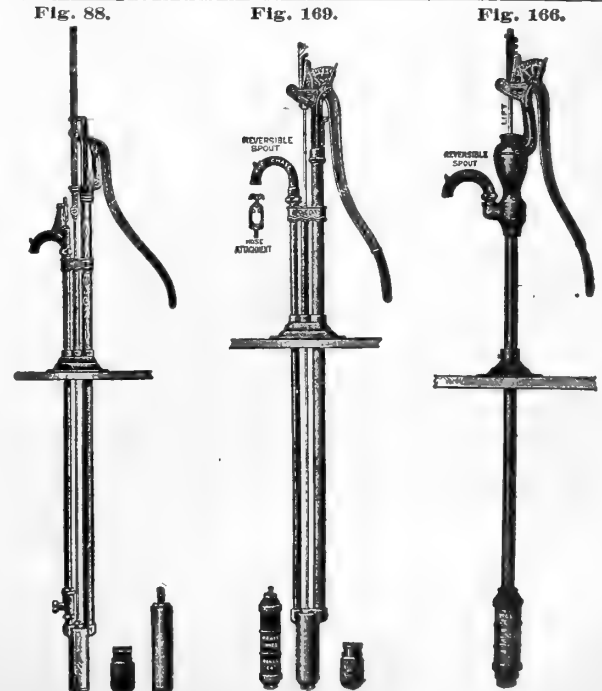
A splendid hand pump, the cog gear handle giving much better leverage than otherwise would be obtained, and making it an easy pump to operate.

No. CR 124, for wells from 25 to 75 feet deep, with 3-inch brass lined lower cylinder, tapped for 1¼-inch pipe.
 List price.....\$15.00 Retail price.....\$10.50

Fig. 166 COG GEAR LIFT PUMP.

No. CR 510 has a 3-inch polished iron cylinder with iron seat, tapped for 1¼-inch pipe.
 List price.....\$6.00 Retail price.....\$4.25

No. CR 504 has a 3-inch brass lined cylinder with bronze seat tapped for 1¼-inch pipe.
 List price.....\$7.50 Retail price.....\$5.25



ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

BUCKEYE FORCE AND LIFT IRON PUMPS



Fig. 41.



No. 22.

No. 22.—Single-Acting, Set Length, Heavy Standard Bolted Spout Hand Force Pump, 6-inch stroke, 3-inch iron cylinder. Fitted for 1 1/4 inch pipe. Same as Fig. 41, but can be extended to 50 feet; will fit 5-inch cased well. List price, \$12.50. Retail price, \$7.75.

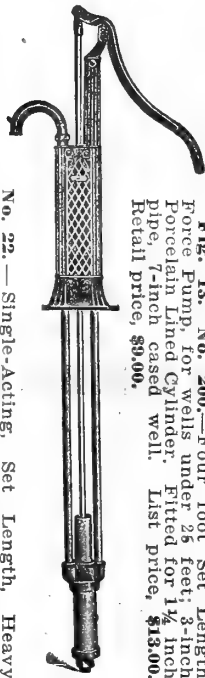


Fig. 13.

Fig. 13. No. 200.—Four foot Set Length Force Pump, for wells under 25 feet; 3-inch Porcelain Lined Cylinder. Fitted for 1 1/4 inch pipe, 7-inch cased well. List price, \$13.00. Retail price, \$9.00.

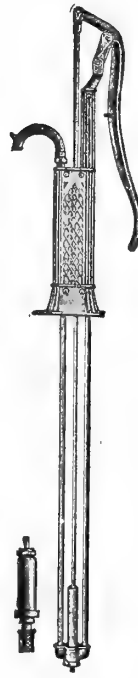


Fig. 14.



Fig. 56.



Fig. 1308.

Fig. 41. No. 392.—4 foot Set Length Lift Pump, for wells up to 25 feet; can be extended to 40 feet; Syphon Spout, Hand Use; adjustable base and brace; Iron Cylinder, 3 inches. Fitted for 1 1/4 inch pipe. Pump extends 4 feet below platform, and will fit in a 5 inch cased well. Price, List, \$6.75. Retail, \$4.50.

Fig. 13. No. 201.—5 1/2 Foot, Set Length, for wells under 25 feet deep; 3 inch Brass Lined Cylinder. Fitted for 1 1/4 inch pipe; 7 inch cased well. List price, \$14.00. Retail price, \$10.00.

Fig. 14. No. 215.—Deep Well Force Pump, for wells from 30 to 70 feet deep; 3 inch Brass Lined Lower Cylinder; 6 inch stroke. Fitted for 1 1/4 inch pipe. List, \$15.00. Retail, \$10.50.

Fig. 14. No. 518.—Deep Well Force Pump, for wells from 30 to 60 feet deep; 9 inch stroke; 2 1/2 inch Brass Lower Cylinder. List, \$17.00. Retail, \$11.75.

Fig. 14. No. 515.—Similar to the above except it has 3 inch Brass Lined Lower Cylinder. For wells up to 50 feet. List, \$16.00. Retail, \$11.25.

Fig. 56. No. 836.—Deep Well Force Pump, with Windmill Head, for wells from 30 to 70 feet deep; with 3-way cock. 2 1/2 inch Brass Lower Cylinder; 6 to 9 inch stroke, with 1 inch air chamber and discharge pipe. List, \$20.50. Retail, \$14.50.

BUCKEYE RATCHET HEAD PUMPS

Cog gear used on these Pumps is a complete wheel and not a small segment of the circle. Handle readily adjusted to height most convenient for operator. It has been the factory's aim to make this the most perfect line of ratchet pumps on the market.

	List	Retail
No. 902.—Corresponds with No. 392.....	\$ 8.00	\$ 5.50
No. 922.—Corresponds with No. 22.....	12.50	7.75
No. 987.—For deep drilled wells, 3-inch B. L. Cylinder.....	15.00	10.50
No. 982.—Corresponds with No. 215.....	15.00	10.50
No. 991.—Corresponds with No. 836.....	20.50	14.50

Fig. 1308.—Lift and Force Pump.

Adapted for deep or shallow wells. Bearer top allows no side wear. Tight top and large air chamber provided with pet cock, making it a lift or force pump at will. Base and brace adjustable. Reversible lever. Spout bolted on, fitted for 3/4 inch hose. Opening at back of spout for one inch pipe. Brass body cylinder with brass valve seat. Drip plug actuated by rod and handle at base. Fitted for deep wells by lowering cylinder.

No. 2 Cylinder, 2 1/2 x 14 in. Stroke, 10 in. Capacity, per stroke, .213 gallons. Suction, 1 1/4 in. pipe. Brass Body Cylinder. Discharges 1 in. pipe, 3/4 in. hose. Wells 60 to 85 feet. List Price, \$17.00. Retail Price, \$11.00

Fig. 1309.—Same Pump, but with Compression Cock. List Price, \$19.50. Retail Price, \$12.75.

WE ALSO CARRY IN STOCK SEVERAL STYLES OF THE CELEBRATED MYERS PUMPS. CIRCULARS ON APPLICATION.

PUMP CYLINDERS

Iron.			Brass Lined.			Brass.		
Size.	List.	Retail.	Size.	List.	Retail.	Size.	List.	Retail.
2 1/2 x 10	\$4.35	\$1.50	2 1/2 x 12	\$ 8.50	\$3.40	2 1/2 x 12	\$ 9.75	\$4.25
3 x 10	5.00	1.75	3 x 12	9.50	3.80	3 x 12	11.00	4.75
2 1/2 x 12	6.00	2.25	2 1/2 x 13	8.50	3.40	2 1/2 x 13	9.75	4.25
3 x 12	7.00	2.75	3 x 13	9.50	3.80	3 x 13	10.75	4.75
			2 1/2 x 14	9.25	3.70	2 1/2 x 14	10.50	4.50
			3 x 14	10.25	4.10	3 x 14	11.75	5.00



No. 902.



No. 987.

BALTIMORE WOOD PUMPS

With and Without Porcelain Cylinder

PRICES OF PUMPS FITTED COMPLETE.

Depth of Well.	6x6 Unlined.		6x6 Lined.		7x7 Lined.	
	List Price.	Retail Price.	List Price.	Retail Price.	List Price.	Retail Price.
10 feet.....	\$7.50	\$5.25	\$9.00	\$6.30	\$10.75	\$7.60
12 feet.....	7.90	5.60	9.40	6.65	11.15	7.80
14 feet.....	8.30	6.00	9.80	7.00	11.55	8.25
16 feet.....	9.10	6.50	10.60	7.50	12.35	9.00
18 feet.....	9.70	7.00	11.00	8.00	12.95	9.25
20 feet.....	10.50	7.50	11.75	8.25	13.50	9.50
23 feet.....			12.75	9.00	14.90	10.50
25 feet.....			13.50	9.50	16.05	11.25
28 feet.....			15.00	10.50	18.35	13.00
30 feet.....			16.30	11.50	20.45	14.50
33 feet.....			19.50	13.75	22.50	16.00
35 feet.....			21.50	15.25	23.50	16.50
40 feet.....			24.50	17.25	26.50	18.75
45 feet.....			27.50	19.25	29.50	21.00
50 feet.....			30.50	21.50	32.50	23.00

PRICES OF BALTIMORE WOOD PUMPS

NOT FITTED. AS REVISED BY

National Association of Wood Pump Mfrs., Nov. 20, 1907

This Price List Supersedes All Hitherto Used.

"No. 0."—STOCK PUMPS. 7x7 Inches, 4-Inch Bore.
List Price, Unlined. List Price, Porc. Lined.

6 feet long.....	\$7.00	\$8.75
7 feet long.....	8.00	9.75
8 feet long.....	9.00	10.75
10 feet long.....	11.00	12.75
12 feet long.....	13.00	14.75
6 feet long, reamed for 6x6 extension pipe, unlined,	\$7.25	

Retail Prices on Pump Stocks 30 Per Cent. From List Prices.

"No. 1"—THE FAVORITE HOUSE PUMPS. 6x6 in., 3½ in. Bore.
List Price, Unlined. List Price, Porc. Lined.

6 feet long.....	\$5.50	\$7.00
7 feet long.....	6.10	7.60
8 feet long.....	6.70	8.20
10 feet long.....	7.90	9.40
12 feet long.....	9.10	10.60
6 feet long, reamed for 6x6 extension pipe, unlined,	5.50	

Retail Prices on Pump Stocks 30 Per Cent. From List Prices.

PUMPS FOR DRIVE WELLS

To Fit 1¼, 1½ or 2 Inch Iron Pipe.

No. 1 House, 6 feet, porcelain lined iron cylinder.....	\$7.50
---	--------

Retail Prices on Pump Stocks 30 Per Cent. From List Prices.

TUBING AND MISCELLANEOUS

List Prices.

4x4, 12 feet long and under, per foot.....	\$.20
4x4, over 12 feet long, per foot.....	.22
6x6 extension tubing, per foot.....	.60
Cylinder Block, Porcelain Lined, 3 feet long.....	3.30
Cylinder Block, Porcelain Lined, 4 feet long.....	3.90
Cylinder Block, Porcelain Lined, 5 feet long.....	4.50
Cylinder Block, Porcelain Lined, 6 feet long.....	5.10
Cylinder Block, Porcelain Lined, 7 feet long.....	5.70
Cylinder Block, Porcelain Lined, 8 feet long.....	6.30

Retail Prices on Tubing and Cylinder Blocks 30 Per Cent. From List Prices.

6x6 Couplings for 4x4 Tubing.....	\$0.50
Buckets, 5-inch, each, No. 00.....	1.25
Buckets, 4-inch, each, No. 0.....	1.00
Buckets, 3½-inch, No. 1, each.....	.80
Buckets, 3-inch, No. 2, each.....	.65
Handle, any size, each.....	.30
Handle Links or Knuckles.....	.25
Check Valves, per dozen.....	1.50
Iron Connection for drive wells, fitted for 1½-inch and 1½-inch iron pipe.....	1.00
Extra Iron Spout, with loose collar.....	.40
Extra Wood Spouts, each.....	.15
Extra Spout Braces, each.....	.15
Extra Bands, each.....	.10
Extra Ears or Brackets, Nos. 35 and 36, each.....	.40
Extra Splice Straps, per pair.....	.25
Extra Frost Faucets, each.....	.40
Plunger Rod, per foot.....	.03
Plunger Leathers, per dozen.....	3.50

FORCE TANK PUMP

LOW DOWN.
DOUBLE ACTING.

Capacity 2000 gallons per hour. Fitted for hose and 2-inch pipe. Handle can be changed to opposite end.

Cylinder, 5 in. diameter; 5-in. stroke; 2-in. opening for suction and discharge.

Plunger is solid; no valves to get out of order. Will throw water 60 feet from point of nozzle.

Fig. 805.—Pump with Strainer Hose Couplings and Clamps...\$6.50

1-inch Discharge Hose, per foot..... .20

2-inch Suction Hose, per foot..... .40



GRITCO HOUSE FORCE PUMP

Designed for use in basements for forcing water into an elevated tank.

Has 3-inch brass-lined cylinder, with metal valves, brass piston rod and brass valve seats.

The suction and discharge openings for iron pipe are on both sides of cylinder, one or both sides can be used if necessary, or two pipes can be run from pump, one to supply water at pump, the other to run to tank in another part of building.

Floor space 8x24 ins., and will work any pressure up to 100 lbs.

The valves are easily accessible by unscrewing caps on top of pump; 3-in. cylinder, and fitted for 1¼ suction pipe, but is furnished with hose connections, when ordered, at an extra charge. Retail price, \$10.00.

PUMP LEATHERS

Cups for Lower Plunger:

2½ inch.....	12c.	3½ inch.....	20c.
3 inch.....	16c.	4 inch.....	25c.

Cups for Upper Plunger:

1¼ inch.....	10c.
Goes with 2½ in. lower cylinder.	
2 3-16 inch.....	12c.
Goes with 3 in. lower cylinder.	
2 9-16 inch.....	15c.
Goes with 3½ in. lower cylinder.	
2 13-16 inch.....	20c.
Goes with 4 in. lower cylinder.	

Plunger Valve Leathers:

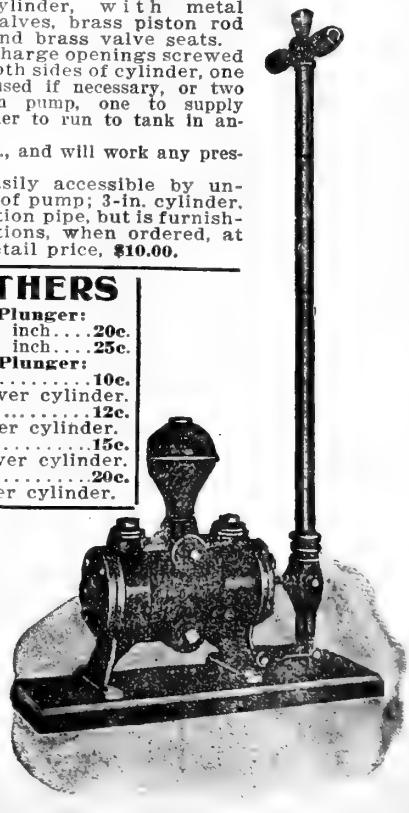
2½ inch.....	5c.
3 inch.....	8c.
3½ inch.....	10c.
4 inch.....	12c.

Check Valve Leathers:

2½ inch.....	12c.
3 inch.....	15c.
3½ inch.....	20c.
4 inch.....	25c.

Cups for D. A. Horizontal Pumps:

2½ inch.....	15c.
3 inch.....	25c.
5 inch.....	50c.



CLOSED TOP PITCHER SPOUT PUMP

SIZES AND PRICES.

- No. 1—Diam. of Cylinder, 2½ in.; Suction, 1 in. Polished Iron Cylinder. List, \$4.25. Retail, \$1.30.
- No. 2—Diam. of Cylinder, 3 in.; Suction, 1¼ in. Polished Iron Cylinder. List, \$4.75. Retail, \$1.35.
- No. 3—Diam. of Cylinder, 3½ in.; Suction, 1½ in. Polished Iron Cylinder. List, \$5.25. Retail, \$1.60.

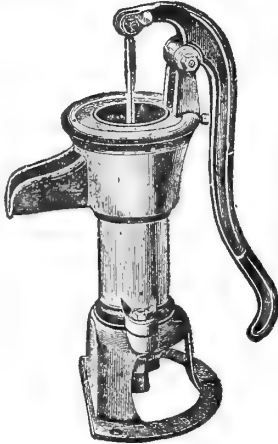


Fig. 205½.

PITCHER PUMP LEATHERS.

- No. 1—Valve and Plunger Leathers, each, 8c.
- No. 2—Valve and Plunger Leathers, each, 10c.
- No. 3—Valve and Plunger Leathers, each, 10c.
- No. 1—2½ in. Leather Cups, 10c.
- No. 2—3 in. Leather Cups, 15c.
- No. 3—3½ in. Leather Cups, 20c.

BRASS JACKET DRIVE WELL POINTS

No. of Pipe.	Diameter Jacket.	Length Pipe.	Number Holes.	No. 50 Gauge, List Price Per Dozen.	Retail Price Each.
90	1¼	18 in.	24 in.	100	\$0.90
94	1¼	24 in.	30 in.	130	1.15
98	1¼	30 in.	36 in.	165	1.40
102	1¼	42 in.	48 in.	270	1.90
136	1½	18 in.	24 in.	120	1.20
140	1½	24 in.	30 in.	162	1.50
144	1½	30 in.	36 in.	198	1.80
148	1½	42 in.	48 in.	276	2.40

Malleable Drive Caps, Hexagon-shaped, for 1¼ Pipe, 20c.
Malleable Drive Caps, Hexagon-shaped, for 1½ Pipe, 25c.

Write for Special cash price on Drive Well Points.



No. 2 National Water Elevator and Purifier

Purifies by means of oxygen forced into water.
Price: Elevator, with 25-foot chain and japanned bottom wheel for 10-foot cistern, \$7.00.
Same, with 30-foot chain for 12-foot cistern, \$7.75.
Extra chain, 15c. per ft.

No. 30 Star Water Elevator and Purifier

Similar to the No. 2 Water Elevator except that the buckets are slightly smaller and there is a slight difference in the way the buckets are coupled together. On account of the smaller bucket, is considered by some better for deeper wells.
Price: Elevator and 25-foot chain and japanned bottom wheel for 10-foot cistern, \$6.00.
Extra chain, per foot, 15c.

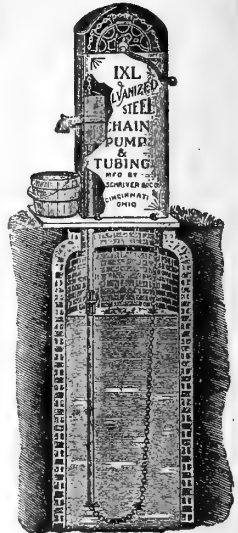


THE IXL GALVANIZED STEEL CHAIN PUMP

Being made of No. 24 gauge galvanized steel, this pump will not rot, rust nor accumulate filth like pumps of less desirable construction and it makes the water clear and pure. It is anti-freezing, as the reservoir piece has a small hole which allows the water to run out. This style of pump is practical for use in wells as deep as 40 feet. The term curb means the complete upper part of pump with fixtures.

PRICES.

I. X. L. Curb.....	\$3.00
Gem Curb.....	2.50
Tubing, per foot.....	.08
Coupling.....	.20
Rubber Buckets.....	.08
Iron Platform.....	4.50
Iron Platform for Gem....	1.00
Chain, per lb.....	.08



THE GEM GALVANIZED STEEL CHAIN PUMP

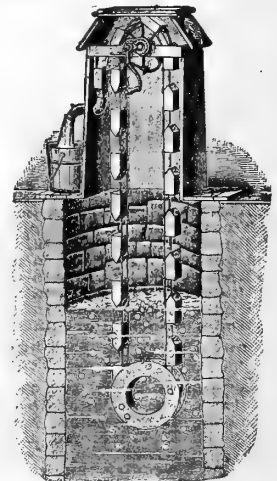


Has extension base, which also projects below platform, and is easily fitted by cutting a square hole in the platform the length and the width of bottom of pump.
The fixtures are first-class and anti-freezing.
The pump is painted stone-color, with two coats of the best paint and is neatly stenciled and varnished.
Made entirely of galvanized steel, in four pieces, locked together with its own metal.
There are neither rivets nor solder on it, making it very strong. Price, \$2.50.

Directions for Fitting Up Chain Pumps.

1. Use one foot more tubing than depth of well.
2. Multiply length of tubing by two and add 3 ft. 6 in. to get proper length of chain.
3. Rubber buckets should be placed 6 or 7 feet apart.
4. See that tubing is held securely by tubing brace at bottom of curb.

WOOD CHAIN PUMP



This Wood Curb Chain Pump is first-class in every respect; nicely finished; nicely painted and striped.

PRICES.

Chain Pump Curbs, each.	\$2.25
Chain Pump Tubing, per ft.	.06
Chain (running 4 to 4½ feet to pound, per lb....	.08

The Queen Rubber Bucket.



Price, 8c.

Crosby Swivel Link Bucket.



Price, 10c.
Crosby Plain, 8c.

Victor Anti-Freezing.



Price, 10c.

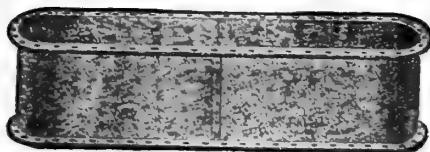
IXL Rubber Bucket.



Price, 8c.

GALVANIZED STEEL STORAGE TANKS

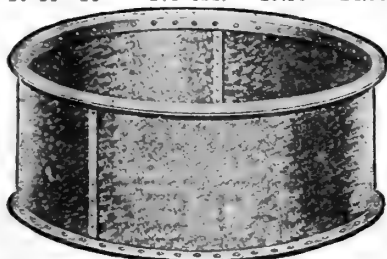
Every tank carefully inspected before leaving factory to insure tank being water tight. The dimensions of all tanks are outside measurement. 31½ gallons to the barrel.



ROUND END GALVANIZED TANKS

No.	Width.	Height.	Length.	Cap'y.	Weight.	List Price.	Retail Price.
101	2 ft.	2 ft.	4 ft.	3¾	65 lbs.	\$7.00	\$5.60
102	2 ft.	2 ft.	5 ft.	4¾	82 lbs.	8.70	6.95
103	2 ft.	2 ft.	6 ft.	5¾	94 lbs.	10.25	8.20
104	2 ft.	2 ft.	7 ft.	6½	106 lbs.	11.25	9.00
105	2 ft.	2 ft.	8 ft.	7½	123 lbs.	12.25	9.80
108	2½ ft.	2 ft.	8 ft.	9½	134 lbs.	13.00	10.40
109	2½ ft.	2 ft.	10 ft.	12	165 lbs.	16.80	13.44
110	2½ ft.	2½ ft.	8 ft.	12	150 lbs.	15.00	12.00
111	3 ft.	2 ft.	8 ft.	11½	145 lbs.	14.00	11.20
112	3 ft.	2 ft.	10 ft.	14	175 lbs.	17.50	14.00

Prices on larger sizes and special tanks quoted on application. Our galvanized tanks are made regularly of No. 20 galvanized steel. Extra heavy tanks made of No. 18 galvanized steel at an advance of 20 per cent. over prices quoted.

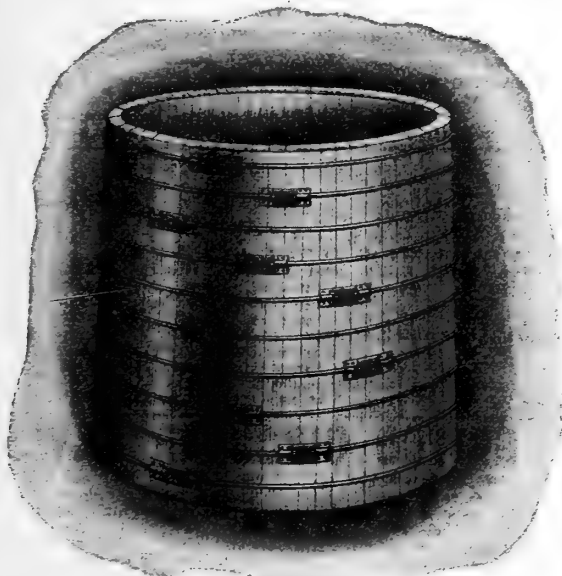


ROUND GALVANIZED TANKS.

No.	Diam.	Height.	Cap'y.	Weight.	List.	Retail.
1	3 ft.	2 ft.	3½ bbls.	71 lbs.	\$8.00	\$6.40
2	4 ft.	2 ft.	6 bbls.	91 lbs.	9.50	7.60
3	4 ft.	2½ ft.	7 bbls.	100 lbs.	10.75	8.60
4	4 ft.	3 ft.	9 bbls.	107 lbs.	12.75	10.20
5	4 ft.	4 ft.	12 bbls.	127 lbs.	16.00	12.80

Larger sizes furnished on application.

CYPRESS STORAGE TANKS



Diam.	Stave.	Capacity.	1½-inch Cypress.		2-inch Cypress.	
			List.	Retail.	List.	Retail.
5 ft.	2 ft.	207 gals.	\$19.80	\$13.25	\$24.90	\$16.00
5 ft.	4 ft.	467 gals.	25.80	17.25	32.50	21.75
5 ft.	5 ft.	597 gals.	28.90	19.50	37.00	25.00
6 ft.	4 ft.	688 gals.	31.80	21.50	41.00	27.50
6 ft.	6 ft.	1072 gals.	42.00	28.00	55.00	37.00
7 ft.	7 ft.	1738 gals.	58.00	39.00	74.00	50.00
8 ft.	6 ft.	1940 gals.	61.00	41.00	78.00	52.50
8 ft.	8 ft.	2639 gals.	76.00	51.00	97.00	65.00

Prices on other sizes quoted on application.

Osgood's Wagon Scales

THE HERCULES (Trussed Steel Levers).
THE CHALLENGE (Wood Levers).

Built on direct leverage plan. The load at any point on the scale platform will weigh the same. Fitted with patent protected steel-lined cushioned bearings, which are protected from dirt and water. Knife edges of best tool steel; beams and poises best quality red brass, polished. Tripled beam requires no loose weights. Platforms, 8x14 feet.



THE HERCULES STEEL LEVER SCALES.

No.	Capacity.	Double Beam.		Triple Beam.	
		List.	Retail.	List.	Retail.
250	3 tons.	\$70.00	\$35.00	\$89.00	\$40.00
260	4 tons.	75.00	37.50	85.00	42.50
270	5 tons.	80.00	40.00	90.00	45.00

PRICES OF THE CHALLENGE WOOD LEVER SCALES.

No.	Capacity.	Double Beam.		Triple Beam.	
		List.	Retail.	List.	Retail.
75	3 tons.	\$50.00	\$25.00	\$60.00	\$30.00
80	4 tons.	55.00	27.50	65.00	32.50
85	5 tons.	60.00	30.00	70.00	35.00

Prices do not include wood frame or platform. On Challenge Scale customer furnishes wood levers. We do not furnish extension levers with any of the above scales.

ROYAL PITLESS SCALES.

Unequaled for accuracy, convenience and durability. Triple brass beam, no loose weights. An ideal portable pitless scale.

4 ton.....	List Price, \$60.00	Retail Price, \$50.00
5 ton.....	List Price, 66.00	Retail Price, 55.00

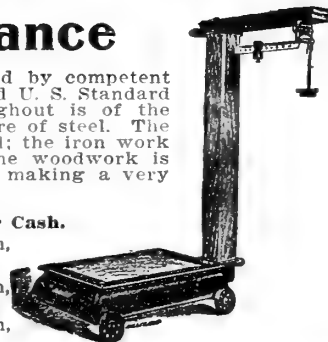
PORTABLE SCALES

The Defiance

They are carefully adjusted by competent workmen, and are guaranteed U. S. Standard Scales. The material throughout is of the best quality, and all pivots are of steel. The brass work is highly polished; the iron work is japanned in black, and the woodwork is finished in its natural color, making a very attractive combination.

Special Discount for Cash.

600-lb.—Size of Platform,	
16x23.	\$11.00.
800-lb.—Size of Platform,	
16x25.	\$12.00.
1000-lb.—Size of Platform,	
17x26.	\$13.50.



The Osgood

The pivots and bearings, both in the beam and under the platform, are made of strong, hard, finely-tempered steel. The beam, sliding poise and thumbscrew are of highly polished brass. The castings are extra heavy, the platform full size, and the axles run through the frame. The pillar, caps and board are of the best seasoned hardwood.

Every Scale is carefully sealed with United States Government standard weights and guaranteed absolutely correct.

Size Platform.

600-lb.	16x25
800-lb.	17x26
1000-lb.	17x26

List Retail.

	Price.	Price.
600 lbs....	\$33.00	\$16.50
800 lbs...	38.00	19.00
1000 lbs...	43.00	21.50



SILVER & DEMING DRILLS

JOBBER'S DRILLS

BIT-STOCK DRILLS

No. 112. SHORT LENGTH.

Fitting Boynton & Plumer and Silver & Deming Blacksmith's Drill Presses, Nos. 1 and 2, with shanks 1/2 in. diameter.

Diam.	L'gth.	List	Retail	Diam.	L'gth.	List	Retail
In.	Pr. ea.	Pr. ea.		In.	Pr. ea.	Pr. ea.	
1-8	4 7/8	\$0.45	\$0.23	13-16	6	\$1.35	\$0.67
5-32	4 7/8	.48	.24	27-32	6	1.40	.70
3-16	5 5/8	.50	.25	7-8	6	1.45	.73
7-32	5 5/8	.55	.28	29-32	6	1.50	.75
1-4	6	.60	.30	15-16	6	1.60	.80
9-32	6	.65	.33	31-32	6	1.70	.85
5-16	6	.70	.35	1	6	1.80	.90
11-32	6	.73	.36	1 1/4	6	1.90	.95
3-8	6	.75	.37	1 1/2	6	2.00	1.00
13-32	6	.78	.39	1 3/4	6	2.10	1.05
7-16	6	.80	.40	1 7/8	6	2.20	1.10
15-32	6	.83	.41	1 5/8	6	2.25	1.13
1-2	6	.85	.43	1 3/4	6	2.30	1.15
17-32	6	.88	.44	1 7/8	6	2.35	1.18
9-16	6	.90	.45	1 1/2	6	2.40	1.20
19-32	6	.95	.48	1 1/4	6	2.50	1.25
5-8	6	1.05	.53	1 1/8	6	2.60	1.30
21-32	6	1.10	.55	1 1/4	6	2.70	1.35
11-16	6	1.15	.58	1 3/8	6	2.80	1.40
23-32	6	1.20	.60	1 1/2	6	2.90	1.45
3-4	6	1.25	.63	1 7/16	6	3.00	1.50
25-32	6	1.30	.65	1 15/32	6	3.10	1.55
				1 1/2	6	3.20	1.60

The above Drills have shanks 2 1/4 inches long and 1/2 inch diameter.

No. 105

JOBBER'S MACHINISTS' SETS.



Diameter.	Length, Inches.	List Price, per Dozen.	Retail Price, per Dozen.	List Price, Each.	Retail Price, Each.
1-16	2 1/8	\$1.00	\$0.60	\$0.09	\$0.05
3-32	2 3/4	1.20	.70	.11	.06
1-8	3	1.45	.85	.13	.07
5-32	3 1/4	1.80	.95	.16	.09
3-16	3 1/2	2.20	1.25	.20	.11
7-32	3 3/4	2.65	1.50	.23	.13
1-4	4	3.15	1.80	.28	.15
9-32	4 1/4	3.65	2.10	.32	.20
5-16	4 1/2	4.20	2.40	.37	.23
11-32	4 3/4	4.80	2.75	.42	.25
3-8	5	5.40	3.10	.48	.28
13-32	5 1/4	6.00	3.50	.53	.31
7-16	5 1/2	6.80	3.90	.59	.34
15-32	5 3/4	7.50	4.30	.65	.37
1-2	6	8.00	4.60	.70	.41

For very exact work, a gauge, plainly marked, should accompany an order.

FOR METAL OR WOOD, No. 109.



Diameter.	List Price, per Dozen.	Retail Price, per Dozen.	List Price, Each.	Retail Price, Each.
2-8	\$1.50	\$0.75	\$0.14	\$0.07
2-32	1.65	.85	.16	.08
4-32	2.10	1.05	.20	.10
5-32	2.60	1.30	.24	.12
6-32	3.10	1.55	.29	.15
7-32	3.60	1.80	.33	.18
8-32	4.10	2.05	.38	.20
9-32	4.70	2.35	.43	.25
10-32	5.40	2.70	.48	.26
11-32	6.30	3.15	.54	.27
12-32	7.20	3.60	.62	.31
13-32	8.00	4.00	.68	.34
15-32	9.60	4.80	.82	.41
16-32	10.30	5.15	.87	.45
9-16	14.35	....	1.20	.60
5-8	16.15	....	1.35	.65
3-4	19.75	....	1.65	.85

These Drills will fit any brace on the market. Will drill steel, iron or other metals as well as wood. Will bore any kind of wood without splitting.

ATKINS' CELEBRATED SAWS

HAND SAW.



PRUNING SAW.



HAND SAWS.

No. 38—American straight back; plate on handle. Our special price, .75c. each.
 No. 59—Sheffield Saw Works. Skew back; beech handle; polished edge, 7 to 9 points. Factory list price, \$14.00 per dozen. Our special price, \$1.00 each.
 No. 54—Silver steel; beech handle; straight back; polished edge, 7 to 9 points. Factory list price, \$22.00 per dozen. Our special price, \$1.50 each.
 No. 53—Silver steel, skew back; carved and polished apple handle, with Atkins' perfection handle. Factory list price, \$25.50 per dozen. Our special price, \$1.75 each. Special Prices in Quantities.

ONE MAN CROSS-CUT SAW, American Tooth.

3 ft., \$1.75; 3 1/2 ft., \$2.00; 4 ft., \$2.25; 4 1/2 ft., \$2.50. Special Prices in Quantities

PRUNING SAWS.

No. 2 Duplex Pruning Saws. 16-inch. Our special price, .65c. 18-inch. Our special price, .75c. 20-inch. Our special price, .85c.

Gritco Cross-Cut Saws, Narrow American.

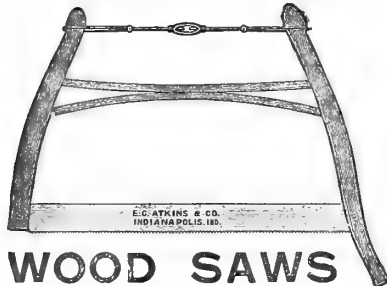
Length	Special Price	Length	Special Price
5 ft.—Out special price	\$1.30	6 ft.—Our special price	\$1.60
5 1/2 ft.—Our special price	1.40		

Price of Cross-Cut Saws is without Handle. Climax Handles, 15c. per Pair.

GRITCO CROSS-CUT SAWS, WIDE TOOTH, AMERICAN.

Wide American Tooth, Silver Steel, 5, 5 1/2 and 6 feet.	Gauge, 14x16.	
Factory list price, 5 ft.	\$2.30	Our Special Price
Factory list price, 5 1/2 ft.	2.54	Our Special Price
Factory list price, 6 ft.	2.76	Our Special Price
Tuttle Tooth, Cast Steel.	Gauge, 14x16.	
Factory list price, 5 ft.	\$2.30	Our Special Price
Factory list price, 5 1/2 ft.	2.54	Our Special Price
Factory list price, 6 ft.	2.76	Our Special Price

Special Prices in Quantities. Price of Cross-Cut Saws is without Handle.



WOOD SAWS

No. 617—Wood brace frame; single rivet; painted red; plain tooth; beasted blade; 2 1/4 in. wide. Our special price, 60c.
 No. 523—Wood brace frame; single rivet; selected stock; high finish; painted red; jumbo rod tinned; Tuttle tooth; beasted blade, 2 1/4 in. wide. Our special price, 75c.
 No. 823—Cantilever frame; selected maple stock; fine natural wood finish; jumbo rod tinned; Tuttle tooth blade beasted, 2 1/4 in. wide. Our special price, \$1.00.
 Wood Saw Bucks, 35c.



GRITCO CIRCULAR SAWS

These Saws are the result of over 50 years' study and experience. Absolutely the best steel is invariably used and each blade is given a tough, even temper and perfect tension, all of which is essential to the successful running of the saw. The workmanship of these blades is unequalled. The prices given are for saws sharpened and set. Unless otherwise ordered we send blades with 1 1/8-in. hole.

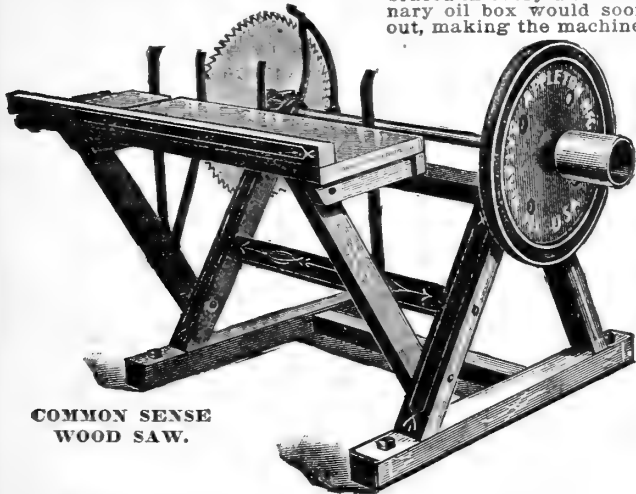
	List Price.	Retail Price.
22-inch, No. 11 gauge	\$12.30	\$6.00
24-inch, No. 10 gauge	14.45	7.00
26-inch, No. 10 gauge	16.05	8.25
28-inch, No. 10 gauge	18.20	9.50
30-inch, No. 10 gauge	20.30	10.50

Saw Mandrels.—Write for Special Circular of Sizes and Prices.

APPLETON WOOD SAWS.

"SIMPLE, STRONG, SAFE AND SUCCESSFUL."

For over twenty years the manufacturers of these Wood Saws have set the standard in wood saw construction. Their thorough knowledge of the business enables them to keep abreast of all the modern requirements and to incorporate in the construction of the Appleton Saws every improvement demanded by present needs and approved by practical experience. The circular saw has to be run at a high rate of speed to do its work satisfactorily; therefore, the frame should be very strong and rigid and as simple in design as is compatible with efficiency, because a breakage when in operation would be dangerous to the operator. For the frames of our saws only the best material adapted to the purpose is used, the same being the proper weight to insure ample strength. For absolute rigidity these frames are strongly mortised and bolted together and firmly braced in every direction. There is no shape to an Appleton Wood Saw Frame. An ordinary oil box would soon become clogged with dust or become heated and quickly cut out, making the machine wobbly and dangerous; therefore, Appleton Saws have a special type of dust-proof, babbitted boxes having large oil chambers, and will last a lifetime with reasonable usage. The arbor used on Appleton Saws is the best.

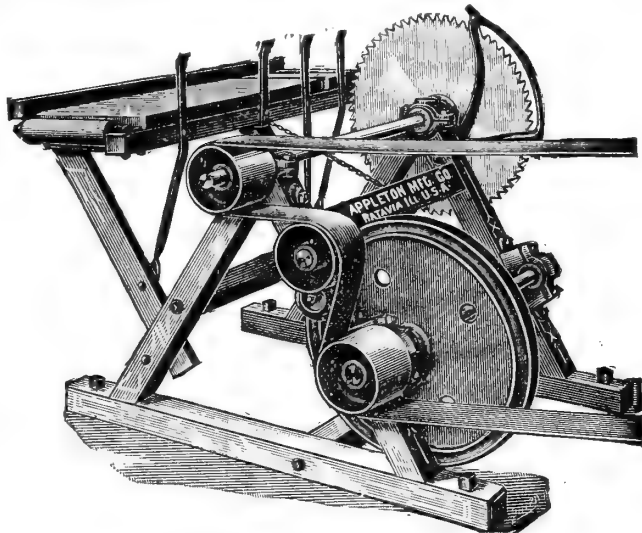


**COMMON SENSE
WOOD SAW.**

THE COMMON SENSE TILTING TABLE WOOD SAW.

An old favorite, on account of its strength, durability and convenience. Very fast work can be done with it.

Price, without Saw Blade.....	\$19.00
Price, with 22-inch Saw.....	26.00
Price, with 24-inch Saw.....	27.00
Price, with 26-inch Saw.....	28.00



NEW STYLE POLE SAW.

NEW STYLE TILTING TABLE POLE SAW.

The original frame of this style and the best Pole Saw on the market; embodies all the latest ideas; imitated by many but equalled by none; requires more power than Common Sense Saw.

Price, without Saw Blade.....	\$27.50
Price, with 24-inch Saw.....	35.50
Price, with 26-inch Saw.....	36.50

APPLETON EXTENSION TABLE POLE SAW.

Built like Common Sense, but has 6-foot table to left of blade instead of to right. A good light-power Pole Saw.

Price, without Saw.....	\$22.00
Price, with 24-inch Saw.....	30.00
Price, with 26-inch Saw.....	31.00

"American" Improved Variable Friction Feed Saw Mills.

THE LIGHTEST RUNNING AND EASIEST TO SET UP AND OPERATE.

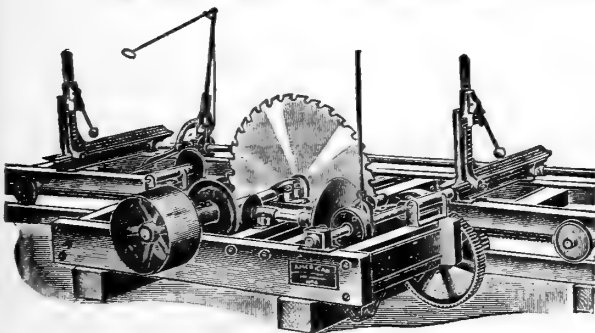
The American Saw Mill is especially adapted to Gasoline Engine power and can be successfully run with a 7 or 9 H. P. Engine. We know of no other mill that will do this. Made in eight sizes and strictly up-to-date. The No. 1 American Saw Mill and our 9 H. P. Alamo Gasoline Engine make a nice outfit, and will cut 3,000 feet of lumber per day. Send for special Saw Mill Catalogue and circular with opinions of many who know by experience that the American Saw Mills are all we claim for them.

PRICES OF "OUR POPULAR FARM OUTFITS."

Outfit A—Consisting of "American" No. 1 Standard Saw Mill, with variable friction feed with 48-in. Solid Tooth Saw. **\$225.00**

Outfit B—Consisting of "American" No. 1 Saw Mill, as described in Outfit A, also one 9-H.P. Ideal Alamo Portable Gasoline Engine, complete with new cooling device, friction clutch pulley and 50 feet 6-inch canvas belting. **650.00**

Special Catalogue and Prices on Larger Sizes on Application.



The American "Up-to-Date" Shingle Machine.

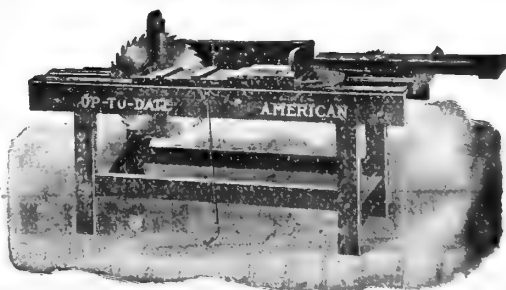
To meet the demand for a reliable yet low-priced Shingle Machine, suitable for small mills, farmers and others having light power, we have brought out our "UP-TO-DATE" Shingle Machine, shown in the accompanying cut. It is thoroughly well made throughout of the best materials.

Power Feed is provided which is thrown into gear by pressure of the foot on the stirrup, and the machine can be used either with hand or power without change in adjustment.

A new feature, and a very valuable one, is the handy little edger, which has an 8-inch saw and a convenient gauge, insuring square, straight-edge shingles. Capacity, 10,000 to 15,000 shingle per day.

The machine will handle square, round or split blocks and does not require an experienced operator.

Price complete, with edger, **\$85.00.** Price complete, without edger, **\$75.00.**



FORKS AND RAKES

MANURE FORKS



No. 4 1/2 Z.—Oval, four-tine, light, not strapped, 60c. each.
 No. 044 1/2 Z.—Four-tine, 4 1/2-foot handle, strap ferrule, 70c. each.
 No. L 044 1/2 Z.—Four-tine, patent locked, strapped, 75c. each.
 No. L044 1/2.—Patent locked, extra heavy, full polished, strapped, 90c. each.
 No. 054 1/2 X.—Five-tine, ferrule, long handle, 90c. each.
 No. 064 1/2 X.—Six-tine, ferrule, long handle, \$1.00 each.
 No. 04 DZ.—D handle, 4-tine, 65c. each.
 No. 4 W.—D handle, four-tine, strapped, 90c. each.
 No. 04 D.—D handle, four-tine, cap ferrule, 80c. each.
 No. 05 D.—D handle, five-tine, cap ferrule, \$1.00 each.
 No. 06 D.—D handle, six-tine, cap ferrule, \$1.10 each.
 No. 151.—Four-tine, diamond tine, heavy, malleable D handle, \$1.25 each.

SPADING FORKS

No. A H O L W.—Pat. Locked Spading Forks, extra heavy, strap ferrule. Price, \$1.10 each.
 No. H W.—Four-tine, angular back. Price, \$1.00 each.
 No. O L D.—Medium weight, angular tine, malleable D handle, strap ferrule. Price, 85c. each.
 No. S 4.—Columbia Socket, 4 heavy polished angular tines, solid socket, 4-ft. handle. Price, \$1.00.
 No. S D.—4 heavy polished angular tines, solid socket, iron D handle. Price, \$1.00.
 No. J O W.—Jumbo, 4 polished tines, extra heavy strapped ferrule, wood D handle. Price, \$1.10.
 No. J O 4.—4 polished tines, extra heavy strapped ferrule, 4-ft. handle. Price, \$1.10.
 No. L D 4.—Half polished, light, angular tines, plain ferrule, iron D handle. Price, 75c.
 No. B 4 D.—Boys, four-tine. Price, 55c. each.



THE IOWA FARMING TOOL CO.,
 Fort Madison, Iowa.

General Utility Fork



SPECIAL PRICES IN QUANTITIES ON ALL FORKS.

No. 910.—Ten-tine, scoop shape, malleable D handle, strap ferrule. Price, \$1.70 each.
 No. 912.—Twelve-tine, scoop shape, malleable D handle, strap ferrule. Price, \$2.00 each.
 Especially for handling beets, onions, apples, corn, etc. Tine points are flattened and rounded, so as not to injure potatoes, etc.
 No. 714.—Coke Forks, 14-tine, D handle, strap ferrule. Price, \$2.15 each.
 No. 100 S.—Ten tine, D handle, stone forks. Price, \$1.75 each.

OAT AND BARLEY FORKS



No. 4 W B.
 Price, each.....\$.75
 No. 6 W B..... .90

HAY FORKS

SILVER POLISH
 Damascus Temper



Retail Price, Each.
 No. 25.—Two-tine hay, common ferrule, straight 5-foot handle....\$.55
 No. 26.—Two-tine hay, common ferrule, 6-foot straight handle.... .65
 No. 025.—Two-tine hay, strap ferrule, 5-foot straight handle.... .70
 No. 026.—Two tine, strap ferrule, 6-foot straight handle..... .80
 No. 35.—Three-tine, 5-foot handle, common ferrule..... .70
 No. 36.—Three-tine, 6-foot handle, common ferrule..... .75
 No. 035.—Three-tine, 5-foot handle, strap ferrule..... .75
 No. 036.—Three-tine, 6-foot handle, strap ferrule..... .85
 Seven or Eight Ft. Handle Forks, Extra.

STABLE FORKS



Three-prong Hickory, Bonner.....\$.60
 Three-prong Oak Wood Stable Forks.... .65
 Four-prong Oak Wood Stable Forks..... .85

10-Teeth, All-Wood
 Hay Rake..... 25c.
 20-Tooth, All-Wood
 Lawn Rake..... 50c.
 XX 3-Bowed Wood
 Lawn Rakes, 24
 Teeth..... 50c.
 The XX can be furnished with either steel or wooden bows.

Ole Olsen Lawn Rake

Malleable Ferrule.
 Price, 50c.

AUTOMATIC SELF-CLEANING LAWN RAKES



A backward motion of the rake from operator will clean all the teeth at once, thus avoiding the disagreeable task of cleaning the teeth with the fingers.

PRICES:
 With 22 teeth, 60c. With 26 teeth, 70c.

STEEL RAKES



Each.
 No. 10 C.—Single shank, solid steel 10-tooth... 45c.
 No. 12 C.—Single shank, solid steel, 12-tooth... 50c.
 No. 14 C.—Single shank, solid steel, 14-tooth, 60c. each.
 No. 16 C.—Single shank, solid steel, 16-tooth, 65c. each.

MALLEABLE RAKES

No. 10 S M.—10-tooth, single shank... 20c. each.
 No. 12 S M.—12-tooth, single shank... 25c. each.
 No. 14 S M.—14-tooth, single shank... 30c. each.
 No. 16 S M.—16-tooth, single shank... 35c. each.
 No. 10 B M.—10-tooth, braced shank 25c. each.
 No. 12 B M.—12-tooth, braced shank 30c. each.
 No. 14 B M.—14-tooth, braced shank 35c. each.
 No. 16 B M.—16-tooth, braced shank 40c. each.
 No. 040.—Solid steel, turf edger... 55c. each.
 No. 39 D.—Steel thistle and dock cutter 65c. ea.

Price, 25c.

No. 211 HARVEST RAKE



This rake takes the place of the old style wood rake with wood or wire bars. Ash head, ten hickory teeth, a combined malleable brace and socket and a good handle. The malleable brace is fastened to the rake head with two rivets and two extension lugs that grip around the rake head.

PRIZE BOW-BRACED SOLID STEEL RAKES



No. B 12.—Prize bow, braced rake, solid steel, 13 teeth. Retail price, 65c. each.
 No. B 14.—Prize bow, braced rake, solid steel, 15 teeth. Retail price, 80c. each. No. B 16.—Solid bow, braced rake, solid steel, 16 teeth. Price, 90c. each.

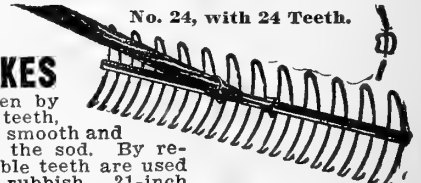
GARDEN SETS

No. 3 P F.
 3 pieces, 5-T
 Rake, Shovel
 and Hoe.
 \$1.00 per set.

STEEL LAWN RAKES

As can be seen by the shape of the teeth, these rakes run smooth and will not dig in the sod. By reversing the double teeth are used for leaves and rubbish. 21-inch head. 24 teeth, 50c.

Reversible, Heavily Tinned.



"KRETSINGER" Cut easy Hoe.



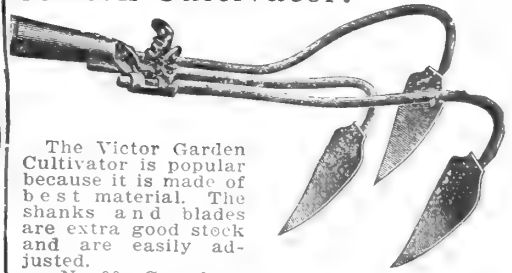
DO YOU SEE THAT EDGE

KRETSINGER CUT-EASY HOE.

This is the finest Hoe made. Cuts easy, sells easy. Try it.

- K. 1—Kretsinger Socket Hoe. \$.70
- K. 2—Kretsinger Shank Hoe.65

THE "VICTOR" Garden Cultivator.



The Victor Garden Cultivator is popular because it is made of best material. The shanks and blades are extra good stock and are easily adjusted.

- No. 90—Complete, on 5-foot handle, with 3x5 blades. Each. \$1.00

COTTON HOES.

- No. R C 7—7 in. Handled Cotton Hoe. . \$.45
- No. R C 7½—7 in. Handled Cotton Hoe. .50
- No. R C 8—8 in. Handled Cotton Hoe. .55

SCUFFLE HOES.

- 4 inches, English. \$.50
- 6 inches, English.60
- 8 inches, English.70
- 10 inches, English.80
- No. X G S Brace or Shank Scuffle Hoe, 8-in. Steel Blade, with Handle.60

PLANTER HOES.

- No. P 7—Heavy Handled Planter Shank Hoe, 7-inch blade. \$.50
- No. P 7½—Heavy Handled Planter Shank Hoe, 7½-inch blade.55
- No. P 8—Heavy Handled Planter Shank Hoe, 8-inch blade.60

EVANS' GARDEN CULTIVATOR.

- No. E C 6—6 Steel Tines, Adjustable, Malleable Head, Common Ferrule, 5-foot Handle. \$1.00



GARDEN HOES.

- No. G 02—Solid Steel Garden Socket Hoe, XX Handle. .50c.
- G 2—Solid Steel Garden Shank Hoe, XX Handle. .45c.
- No. R O A—Riveted Shank Garden Hoe. .25
- No. L Y 5—Solid Steel Lady's Shank Hoe, XX Handle. .40
- No. 2 P—Two-Point Solid Steel Weed Hoe. .30
- No. 1 P—Sharp-Point Steel Blade Weed Hoe. .25

WARREN HOE.

Very useful in making rows and weeding onions. Hilling, drilling and weeding, covering seeds, etc.



- W 7—Polished Steel Garden. \$.75
- W 7½—Polished Steel Field.90

CRESCENT DOUBLE BIT HOE



- No. 70—Crescent Double-Bit Hoe, Blades 3¼ in. and 7 in. \$.60

ICE HOOKS.

- No. 06—6 ft. Handle, Strapped Ferrule. \$.60
- No. 07—7 ft. Handle, Strapped Ferrule. .75
- No. 08—8 ft. Handle, Strapped Ferrule. .85

SIDEWALK CLEANERS.

- No. X 8—8-in. Steel Blade. . \$.50

MANURE FORK HANDLES.

- | | | |
|--------------|-------------|---------------|
| | List price. | Retail price. |
| No. X—4½ ft. | \$2.10 | \$.20 |

HAY FORK HANDLES.

- | | | |
|-------------|--------|--------|
| No. X—6 ft. | \$2.50 | \$.25 |
| No. X—7 ft. | 3.50 | .30 |
| No. X—8 ft. | 4.90 | .35 |

RAKE HANDLES.

- | | | |
|-------------|-------------|---------------|
| | List price. | Retail price. |
| No. X—5 ft. | \$1.65 | \$.15 |

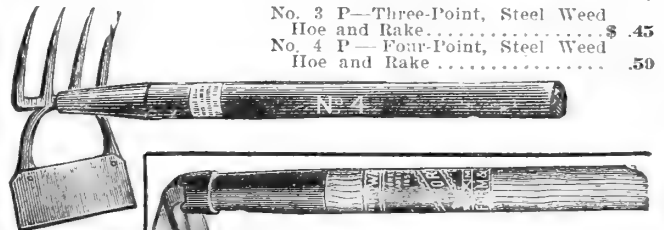
FIELD HOE HANDLES.

- No. X— \$1.50 \$.15

SHOVEL HANDLES.

- No. X—L. H., 4½ ft. \$3.00 \$.25
- No. X—D. H., 3.50 .35
- No. X—D. H., Spade Hds. 3.35 .35

- No. 3 P—Three-Point, Steel Weed Hoe and Rake. \$.45
- No. 4 P—Four-Point, Steel Weed Hoe and Rake.50



SPROUTING HOES.

- No. 64½—Heavy Handled Sprouting Hoe, 4½-in. blade, special temper, 65c.

HEAVY HANDLED MATTOCK HOE.

- Sharp pointed like a pick at one end, mattock at the other.
- No. 75—Heavy Handled Mattock Hoe, special temper.70c.

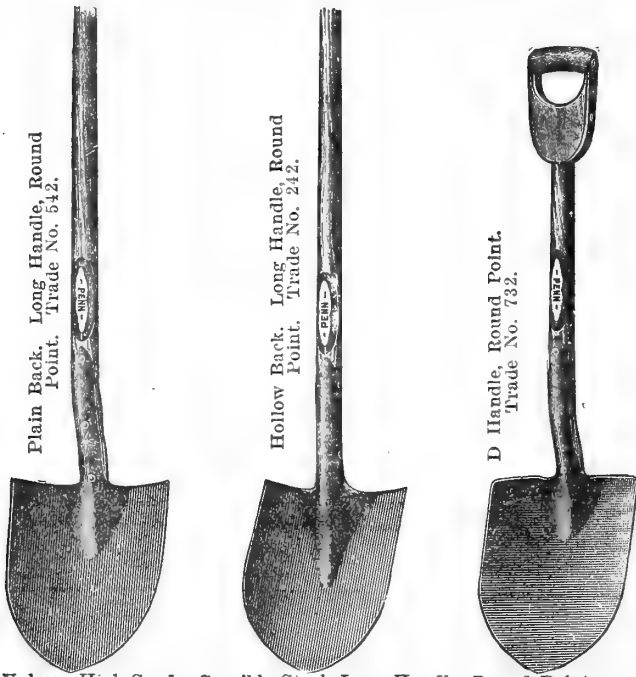


GIBBS' POST-HOLE DIGGER.

Digs faster, works easier than any other on the market. All wearing parts have steel pins. Makes a hole of any desired diameter. First-class for tree planting. Price. \$1.75

STEEL SOLID HANDLE POST SPADE.

Flattened at one end like a spade. The other end is sharpened and can be used as a crowbar. Light, durable, effective, cheap. Price. \$2.00



Vulcan, High-Grade, Crucible Steel, Long Handle, Round Point, No. 2 Shovel.....\$1.25

PLAIN BACK SHOVELS—Carbon Steel

No.	Description	Each.
542	Gritco—Long Handle, Round Point Shovels, Size No. 2.....	\$1.00
512	Gritco—D Handle, Square Point Shovels, Size No. 2.....	1.00
513	Gritco—D Handle, Square Point Shovels, Size No. 3.....	1.05
514	Gritco—D Handle, Square Point Shovels, Size No. 4.....	1.10
532	Gritco—D Handle, Round Point Shovels, Size No. 2.....	1.00
533	Gritco—D Handle, Round Point Shovels, Size No. 3.....	1.05
742	Balto.—Long Handle, Round Point Shovels, Size No. 2.....	.75
722	Balto.—Long Handle, Square Point Shovels, Size No. 2.....	.75
732	Balto.—D Handle, Round Point Shovels, Size No. 2.....	.75
712	Balto.—D Handle, Square Point Shovels, Size No. 2.....	.75
713	Balto.—D Handle, Square Point Shovels, Size No. 3.....	.80
714	Balto.—D Handle, Square Point Shovels, Size No. 4.....	.85
No. 2	—Long Handle, Riveted Back, Round Point Shovels.....	.60

SNOW SHOVELS Long Handle, Steel Socket.....\$.50



CORN HOOKS

No. 2	—Cast Steel, Not Finished.....	\$.20
No. 1	—Tempered Steel, Full Polish.....	.25
No. 5	—Serrated, Not Adjustable.....	.30
No. 6	—Serrated Edge, Adjustable.....	.35

CORN KNIVES

No. 21	—“Will Cut” or Clipper.....	\$.25
No. 23	—“Will Cut,” Broad, Forged Steel.....	.30
	Eureka, Curved Blade, Forged Steel, Hardened in Oil.....	.50

POTATO HOOKS

No. 4	B. O. M.—Flat, Oval, 4 Tine, Solid Steel.....	\$.60
No. 4	B. O. H.—Heavy Broad Oval Tines, Bent Head, 5-Foot Handle.....	.70
No. 5	B. O. H.—5 Tines, Heavy Broad Oval Tines, Bent Head, 5-Foot Handle.....	.80

HOLLOW BACK SHOVELS—Carbon Steel

No.	Description	Each.
242	Oriole—Long Handle, Round Point Shovels, Size No. 2.....	\$.60
222	Oriole—Long Handle, Square Point Shovels, Size No. 2.....	.60
212	Oriole—D Handle, Square Point Shovels, Size No. 2.....	.60
213	Oriole—D Handle, Square Point Shovels, Size No. 3.....	.65
214	Oriole—D Handle, Square Point Shovels, Size No. 4.....	.70
215	Oriole—D Handle, Square Point Shovels, Size No. 5.....	.75
216	Oriole—D Handle, Square Point Shovels, Size No. 6.....	.80

HOLLOW BACK SCOOPS

No.	Description	Size.	Each.
263	Oriole—D Handle, Eastern Pattern or Coal Scoop, No. 3.....		\$.70
264	Oriole—D Handle, Eastern Pattern or Coal Scoop, No. 4.....		.75
265	Oriole—D Handle, Eastern Pattern or Coal Scoop, No. 5.....		.80
266	Oriole—D Handle, Eastern Pattern or Coal Scoop, No. 6.....		.85
274	Oriole—D Handle, Western Pattern or Grain Scoop, No. 4.....		.80
276	Oriole—D Handle, Western Pattern or Grain Scoop, No. 6.....		.85
278	Oriole—D Handle, Western Pattern or Grain Scoop, No. 8.....		.90

Long Handle Scoops same price as D Handle.

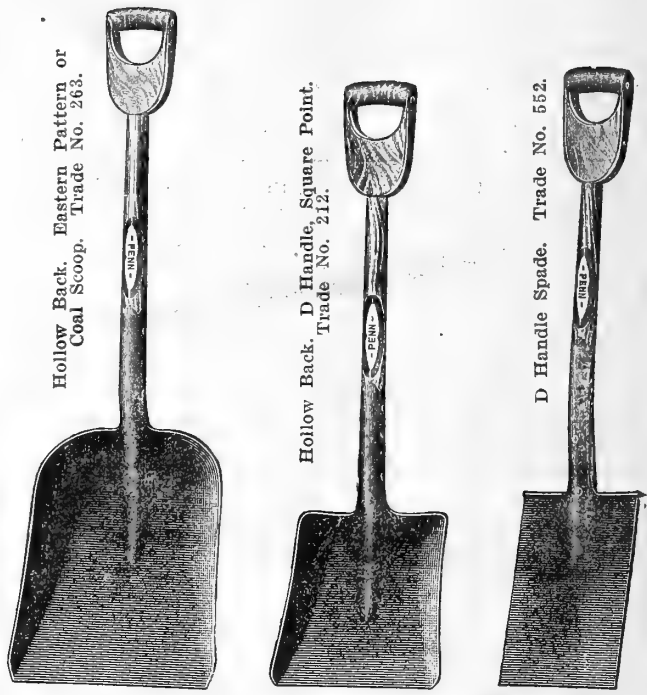
PLAIN BACK SPADES

No. 552	Gritco—D Handle Spades, Size No. 2.....	Each, \$1.00
No. 554	Gritco—Long Handle Spades, Size No. 2.....	1.00
No. 752	Balto.—D Handle Spades, Size No. 2.....	.75
No. 754	Balto.—Long Handle Spades, Size No. 2.....	.75

HOLLOW BACK SPADES

No. 252	Oriole—D Handle Spades, Size No. 2.....	Each, \$.75
No. 254	Oriole—Long Handle Spades, Size No. 2.....	.75

Always Order Shovels and Spades by List Number.



GRASS HOOKS

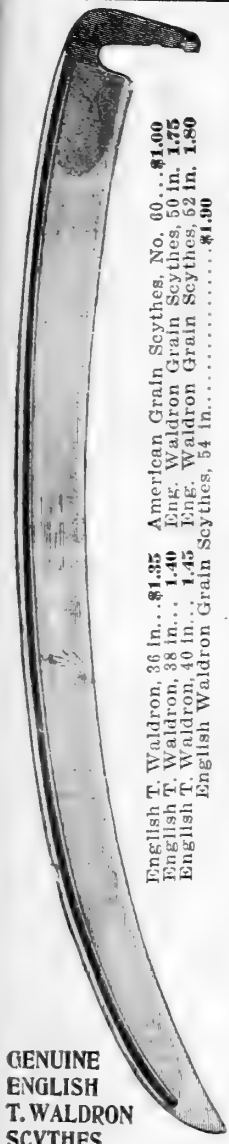
	Best English Grass.....	No. 2, 35c.
	Best English Grass.....	No. 3, 50c.
	Best English Hedge or Grass Hooks.....	No. 4, 60c.
	Best English Hedge or Grass Hooks.....	No. 5, riveted back, 75c.



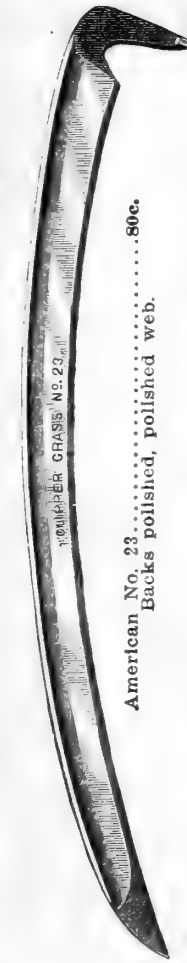
Bush and Briar Hooks

No. 380	—Axe Handle Bush Hook.....	\$.75
No. 390	—Two-Ring Bush Hook.....	.75
No. 393	—Socket Briar.....	1.25

With Knife on back.

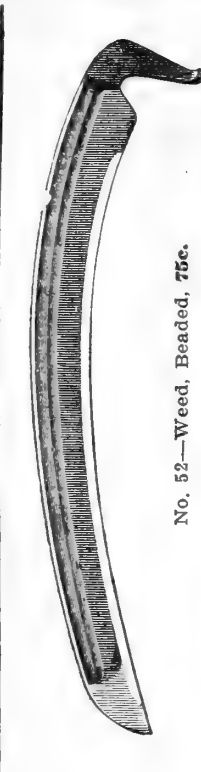


English T. Waldron, 36 in. ... \$1.35
 American Grain Scythes, No. 60. ... \$1.00
 English T. Waldron, 38 in. ... 1.40
 Eng. Waldron Grain Scythes, 50 in. 1.75
 English T. Waldron, 40 in. ... 1.45
 Eng. Waldron Grain Scythes, 52 in. 1.80
 English Waldron Grain Scythes, 54 in. ... \$1.90



American No. 23. ... 80c.
 Backs polished, polished web.

Scythe Stones



No. 52—Weed, Beaded, 75c.

GENUINE ENGLISH T. WALDRON SCYTHES

No. 7—Imported English Talaacra. ... 20c. each.
 None genuine unless labeled Sir Pyres Mostyn, Talaacra Quarries.
 Cigar Emery. ... 10c. each.

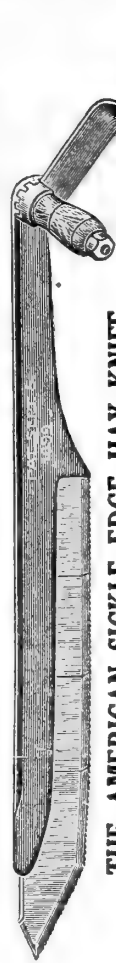
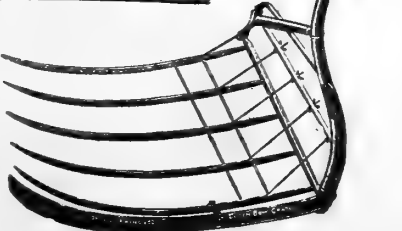


No. 50—Best Bush or Briar Scythe, Beaded, American Pointed. Price. ... \$.75

Factory-Made Cradles

Factory-made Cradle, American Blade, five fingers, complete with Scythe, No. 5, \$3.50.

Factory-made Cradle, American Blade, six fingers, complete with Scythe, No. 5 1/2, \$3.75.



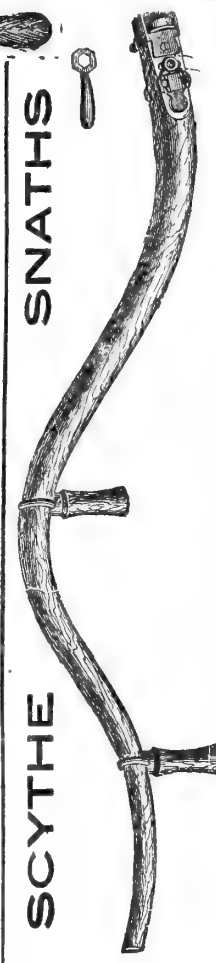
THE AMERICAN SICKLE EDGE HAY KNIFE

The best cutting knife made. Right or left hand. Section can be easily replaced. Price. ... \$1.25



LIGHTNING PATTERN HAY KNIFE

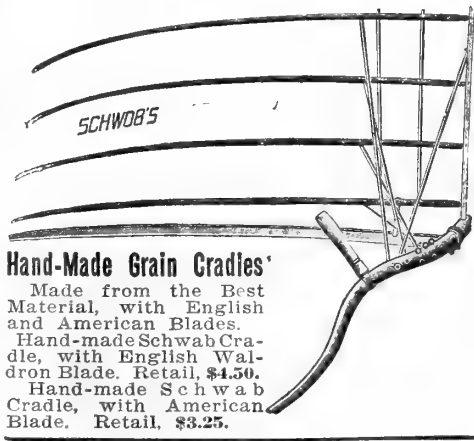
Price, 75c.



SCYTHE

SNATHS

No. 80—Ring Fastening Socket, iron trimmed. Retail price. ... 65c. List price. \$0.50
 No. 55—Patent Loop, solid plate, iron trimmed. Retail price. ... 75c. List price. 1.150
 No. 100—Two Rings, Bush Snath. Retail price. ... 85c. List price. 1.250
 No. 105—Patent Bush Snath. Retail price. ... \$1.00 List price. 1.350



Hand-Made Grain Cradles'

Made from the Best Material, with English and American Blades.
 Hand-made Schwab Cradle, with English Waldron Blade. Retail, \$4.50.
 Hand-made Schwab Cradle, with American Blade. Retail, \$3.25.



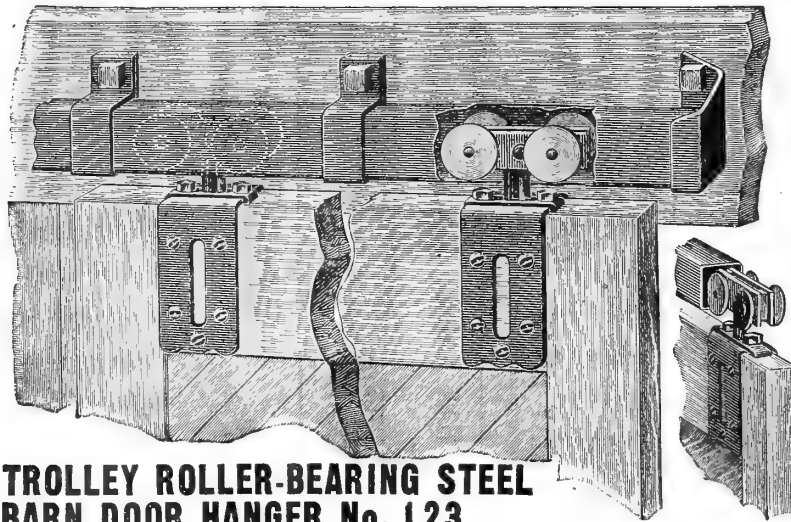
IWAN'S IMPROVED POST HOLE AND WELL AUGER.

CONSTRUCTION.

Two crucible steel blades, each with two scientifically formed cutting edges, and riveted to a strong malleable arch, form the bowl of the auger. The two blades interlock, having notched edges for this purpose, thus holding each other firmly in place. Total length of sizes: From 3 to 10 inch, 4 feet; 12 and 14 inch, 6 feet.

For all ordinary uses these lengths will answer the purpose, but where deeper holes are required, longer pipe can be attached to the 3, 4, 5, 6, 7, 8, 9 and 10 inch sizes at 8c. per foot, and to the 12 and 14 inch at 10c. per foot. The 12 and 14 inch augers are fitted with 1 inch pipe, and all the other sizes with 3/4 inch. Weight, 8 to 24 pounds each.

Price, 10 inch. ... \$3.00



TROLLEY ROLLER-BEARING STEEL BARN DOOR HANGER No. 123

Weight, per pair, 10 lbs. Pendant 6 in. long, 3 1/2 in. wide, 3-16 in. thick. These Hangers have lateral adjustment, and are suitable for doors from 1 1/2 to 2 1/4 in. thick. Hangers and track are sold separately. A pair of Hangers consists of two hangers and carriers, one right-end bracket, No. 51; one left-end bracket, No. 50, and one center bracket, No. 52, complete with wood screws for hangers and lag screws for brackets. **When ordering always give thickness of doors, the exact width of opening, and state whether for double or single doors.** No. 131 track, No. 16 gauge.

TROLLEY HANGER No. 124 Same as No. 123 above; same adjustment. Suitable for doors 2 1/4 to 3 inches thick. Weight, per pair, 12 lbs. Trolley Hangers includes one left-end bracket, No. 50; one right-end bracket, No. 51, and one center bracket, No. 52, and No. 131 track, No. 16 gauge.

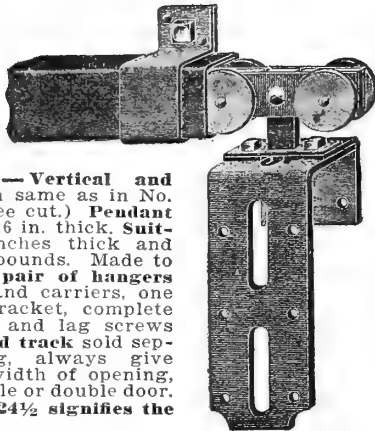
No. 124 1/2 Roller Bearing Steel Barn and Fire Door Hanger

A pair of hangers consists of two hangers, one each right and left-end brackets, and one center bracket complete with wood and lag screws. The only Adjustable Double Apron made. Suitable for doors weighing 400 to 600 lbs. Adjustment lateral only. No. 1—For doors 1 3/4 to 2 1/4 in. thick; weight, 12 lbs. No. 2—For doors 2 1/4 to 3 in. thick; weight, 12 lbs. **The 1/2 in the Number 124 1/2 signifies the return or double apron.**

TROLLEY HANGER No. 224 Weight, per pair, 12 lbs. Pendant 9 in. long, 3 1/2 in. wide, 3-16 in. thick. Suitable for doors from 2 to 3 inches thick, weighing from 400 to 600 lbs. Adjustment lateral and vertical; Track No. 16 Gauge, No. 131 Type. Same equipment included in price as other Trolley Hangers.

No. 224 1/2 Trolley Roller-Bearing Steel Barn Door Hanger

Has two adjustments—Vertical and lateral. Has return apron same as in No. 124 1/2, described above. (See cut.) Pendant 9 in. long, 3 1/2 in. wide, 3-16 in. thick. **Suitable** for doors 2 to 3 inches thick and weighing from 400 to 600 pounds. Made to run on No. 13 track. A pair of hangers consists of two hangers and carriers, one right and one left-end bracket, complete with screws for hangers and lag screws for brackets. **Hangers and track sold separately.** When ordering, always give thickness of door, exact width of opening, and state whether for single or double door. **The 1/2 in the Number 224 1/2 signifies the return or double apron.**



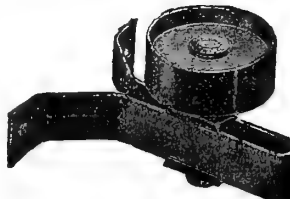
TROLLEY HANGERS

Retail Price. Per Pair.

Trolley Hangers, No. 123	\$1.75
Trolley Hangers, No. 124	2.00
Trolley Hangers, No. 224	2.25
Trolley Hangers, No. 124 1/2	2.25
Trolley Hangers, No. 224 1/2	2.50

No. 131 Track, for any of the above Trolley Hangers, per foot, **12 1/2c.** Extra Brackets for any above Hangers, each **12 1/2c.**

STAY ROLLERS

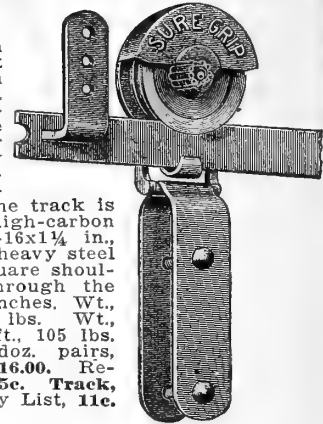


For use on Barn Door Hangers. Price, each, **15c.**

Flexible Hinge Barn Door Hanger

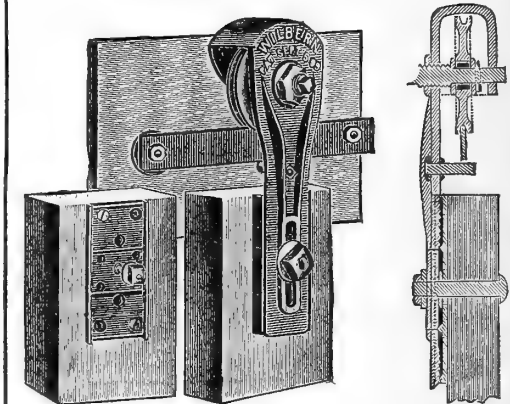
No. 843.

The door can be swung out from the bottom at any angle. The flexible feature allows the top of the door to move away from the building at least one-half an inch. The track is heavy special high-carbon flexible steel, 3-16x1 1/4 in., supported by a heavy steel bracket with square shoulder mortised through the track every 17 inches. Wt., doz. pairs, 70 lbs. Wt., track, per 100 ft., 105 lbs. Hangers, per doz. pairs, Factory List, **\$16.00.** Retail, per pair, **75c.** Track, per foot, Factory List, **11c.** Retail, **6c.**



No. 0 Wilbern Adjustable Barn Door Hanger

Vertical and Lateral Adjustment.



This hanger is designed especially for barn doors and for light factory doors. In the vertical adjustment a half-inch bolt passing entirely through the door is used instead of a cap screw. The plate is fastened to the door with flat-head screws. Will run on any stock track from 1 inch to 1 1/4 inch wide without jumping. Weight, per dozen pairs, 80 pounds.

ITS MERITS.—It has lateral adjustment, which is secured by a threaded axle. This permits a door to be moved in or out, so that it can be hung close to the wall, or chafing on the wall can be easily corrected. It has vertical adjustment, which is secured by a plate and a ratchet. This permits a door to be moved up or down, so that it can be hung close to the floor, or scraping on the floor can be easily corrected. Double doors can be fitted snugly together. **It can't jump the track,** being tied on by an adjustable stop, which passes under the rail. **Price, per pair, \$1.00.** One-inch Track, per foot, **4c.**; 1 1/4-inch Track, per foot, **6c.**

Anti-Friction Barn Door Hanger No. 2

PRICE, PER PAIR, 60c.



Has roller bearings, which cause the wheel to roll easily and prevent wear. Frame of open-hearth steel, strength sufficient for heaviest doors; standard tread; can be used on other tracks

The track is made of special carbon open-hearth steel 1x3-16 stock, has heavy brackets well and substantially riveted every 12 inches. Ends made with tongue and groove to match. Track made in 4, 6, 8 and 10 foot lengths. **Price, per foot, 4c.**

Wood Single, Double and Tripletrees



26-inch Southern Singletrees...25c.	Wagon Singletrees, 36 inches..\$0.75
28-inch Extra Nailed Singletrees...40c.	36-inch Southern Doubletrees... .75
30-inch Heavy Singletrees.....50c.	36-inch Heavy Doubletrees..... 1.00
32-inch Heavy Singletrees.....60c.	40-inch Heavy Doubletrees..... 1.10
34-inch Heavy Singletrees.....60c.	Extra Heavy Tripletrees..... 3.00
36-inch Heavy Singletrees.....75c.	

WOOD NECK YOKE



OVAL LAP OR OPEN RINGS.
 $\frac{1}{2}$ x $2\frac{1}{2}$. 8c. each; $\frac{5}{8}$ x 3, 12c. each.

CHAIN REPAIR LINKS.
 10-2, 15c. doz.; 10-1, 20c. doz.

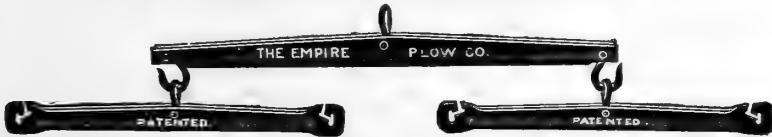
SIDE OPEN LAP LINKS.
 $\frac{1}{2}$ x $2\frac{1}{2}$, 8c. each; $\frac{5}{8}$ x $2\frac{1}{2}$, 10c. each; $\frac{5}{8}$ x 3, 12c. each.



No. 6—
 40-in.. \$.75
 48-in.. 1.00

Wagon Singletrees, No. 9 $\frac{1}{2}$, each75c.
 Wagon Doubletrees, No. 12 $\frac{1}{2}$, each\$1.10
 Doubletrees and Singletrees with neck yoke for low-down wagon trucks, per set\$2.75

U SINGLE, DOUBLE AND TRIPLETREES



The lightest and strongest Steel Trees on the market. Hook is so constructed that the trace will not unhook.
 Single—24-in., 35c.; 26-in., 40c.; 28-in., 45c.; 30-in., 50c.; 36-in. double, 90c.
STEEL TRIPLETREE SETS, COMPLETE, PER SET OF 6 PIECES, \$4.00.

EVERLASTING TUBULAR STEEL DOUBLETREES

PLOW DOUBLETREES IN SETS, THREE SIZES, Pattern No. 105.

No. 0—For light plowing in moss soil; length, 33 in. and 28 in. Per set, \$3.00.

No. 1—For regular plowing in clay soil; length, 36 in. and 30 in. Per set, \$3.25.

No. 2—For extra heavy plowing, street making, etc.; length, 36 in. to 33 in., and 30 to 32 in. Per set, \$4.25.

Singletrees for above, Pat. No. 107.
 24 inches.....67c. each.
 26 inches.....70c. each.
 28 inches.....75c. each.
 30 inches.....85c. each.
 32 inches.....\$1.20 each.

STEEL FARM WAGON DOUBLETREES.

In Sets Complete, Pattern No. 102. Two Sizes, with Rings or Hooks for Traces.

No. 2—Capacity 4000 pounds; evener, 46 to 48 inches; Singletrees, 33 to 34 inches. Per set, \$5.25.

No. 3—Capacity 7000 pounds; evener, 43 to 45 inches; Singletrees, 34 to 37 inches. Per set, \$6.00.

Singletrees for above, Pattern No. 104. Three Sizes.

No. 1—33-in., capy. 1500 lbs..\$1.25 each.
 No. 2—34-in., capy. 2000 lbs.. 1.35 each.
 No. 3—36-in., capy. 4000 lbs.. 1.67 each.

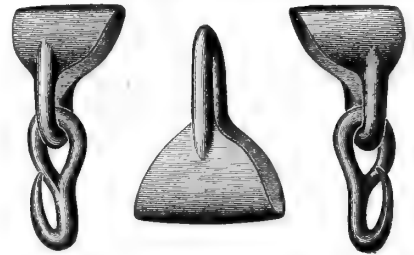
CONTRACTORS' TUBULAR EVERLASTING STEEL DOUBLETREES.

Pattern No. 97. Similar to Pattern No. 105
 No. 3—Evener, 48 inches; No. 3 Singletree, 36 inches; weight, per set, 40 lbs. Price, per set, \$7.50.

CONTRACTORS' TUBULAR EVERLASTING STEEL NECK YOKE.

Pattern No. 98.
 No. 2—Length, 46 inches; weight, 14 pounds. Price, each, \$2.75.

Set of Welded Clips



CLIPS FOR DOUBLETREES.

Our No. 36, Factory No. 77—Southern; one $\frac{5}{8}$ -in. Center Clip and Hook, welded, with $\frac{1}{2}$ -in. hook and two $\frac{1}{2}$ -in. End Clips, welded, as used on our 36-in. Southern Doubletrees. List, per doz., \$3.30. Set, 25c.

Our No. 36 and 40, Factory No. 76—Pennsylvania; one $\frac{3}{4}$ -in. Center Clip and Hook, welded, with $\frac{3}{8}$ -in. Hook and two 9-16 in. End Clips, welded, as used on our 36 and 40 inch Heavy Pennsylvania Doubletrees. List, per doz., \$5.30. Set, 40c.

CLIPS FOR SINGLETREES.

Our No. 26, Factory No. 75—One Center $\frac{1}{2}$ -inch Clip, welded, and two $\frac{3}{8}$ -inch End Clips, welded, with 5-16 inch Hooks, as used on our 28-inch Singletrees. List, per doz., \$2.10. Set, 20c.

Our No. 30, Factory No. 74—One Center 9-16 inch Clip, welded, and two 7-16 inch End Clips, welded, with $\frac{3}{8}$ -inch Hooks, as used on our 30 and 32-inch Heavy Singletrees. List, per doz., \$3.00. Set, 25c.

Our No. 34, Factory No. 73—One Center $\frac{5}{8}$ -inch Clip, welded, and two 7-16 inch End Clips, welded, and $\frac{3}{8}$ -inch Hooks, as used on our 34 and 36 inch Heavy Singletrees. List, per doz., \$3.20. Set, 30c.

EVERLASTING TUBULAR STEEL DOUBLETREES

PLOW DOUBLETREES IN SETS, THREE SIZES, Pattern No. 105.

No. 0—For light plowing in moss soil; length, 33 in. and 28 in. Per set, \$3.00.

No. 1—For regular plowing in clay soil; length, 36 in. and 30 in. Per set, \$3.25.

No. 2—For extra heavy plowing, street making, etc.; length, 36 in. to 33 in., and 30 to 32 in. Per set, \$4.25.

Singletrees for above, Pat. No. 107.
 24 inches.....67c. each.
 26 inches.....70c. each.
 28 inches.....75c. each.
 30 inches.....85c. each.
 32 inches.....\$1.20 each.

STEEL FARM WAGON DOUBLETREES.

In Sets Complete, Pattern No. 102. Two Sizes, with Rings or Hooks for Traces.

No. 2—Capacity 4000 pounds; evener, 46 to 48 inches; Singletrees, 33 to 34 inches. Per set, \$5.25.

No. 3—Capacity 7000 pounds; evener, 43 to 45 inches; Singletrees, 34 to 37 inches. Per set, \$6.00.

Singletrees for above, Pattern No. 104. Three Sizes.

No. 1—33-in., capy. 1500 lbs..\$1.25 each.
 No. 2—34-in., capy. 2000 lbs.. 1.35 each.
 No. 3—36-in., capy. 4000 lbs.. 1.67 each.

CONTRACTORS' TUBULAR EVERLASTING STEEL DOUBLETREES.

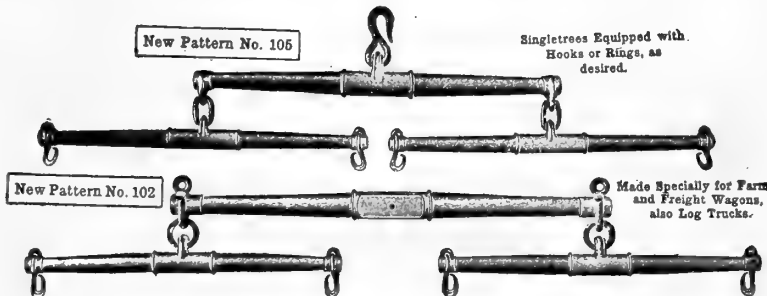
Pattern No. 97. Similar to Pattern No. 105
 No. 3—Evener, 48 inches; No. 3 Singletree, 36 inches; weight, per set, 40 lbs. Price, per set, \$7.50.

CONTRACTORS' TUBULAR EVERLASTING STEEL NECK YOKE.

Pattern No. 98.
 No. 2—Length, 46 inches; weight, 14 pounds. Price, each, \$2.75.

New Pattern No. 105

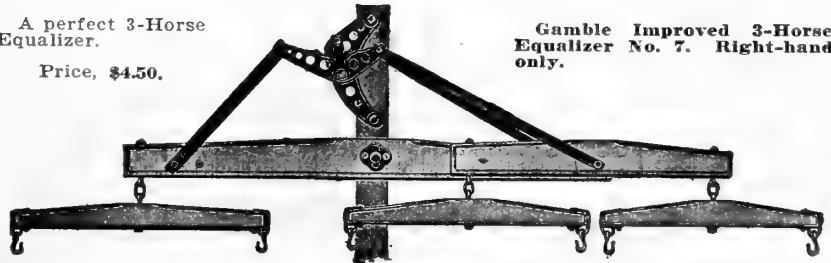
Singletrees Equipped with Hooks or Rings, as desired.



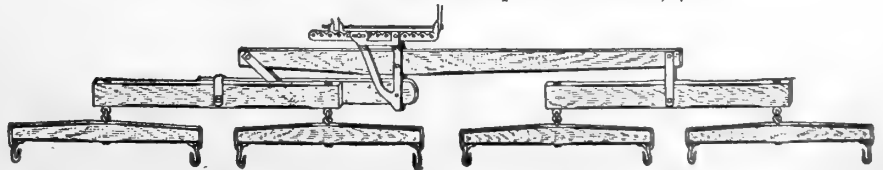
A perfect 3-Horse Equalizer.

Price, \$4.50.

Gamble Improved 3-Horse Equalizer No. 7. Right-hand only.



The Gamble No. 10—4-Horse Equalizer. Price, \$5.00.



Rivetless Steel Stock Trough



The only Steel Trough constructed without the use of rivets. Will not crack or burst on account of freezing. This Trough is made of No. 12 gauge steel, curved in semi-circular form, with ends of cast iron fitted in each end of steel and held in place by steel bands instead of rivets. These bands are shrunk around the end edges of steel, binding it firmly to the flange on the end, thereby making a perfectly watertight joint.

	List.	Retail.
No. 79—4 feet long...	\$8.30	\$5.00
No. 80—5 feet long...	10.35	6.25
No. 81—6 feet long...	12.15	7.30
No. 82—8 feet long...	15.50	9.35
No. 83—10 feet long...	19.50	11.70
No. 84—12 feet long...	23.25	14.00
No. 85—14 feet long...	25.50	15.35
No. 86—16 feet long...	28.60	17.20

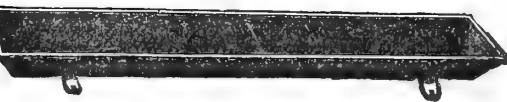
Troughs are 1 1/2 in. wide, 10 in. deep, hold 8 gallons per foot.



Iron Poultry Troughs

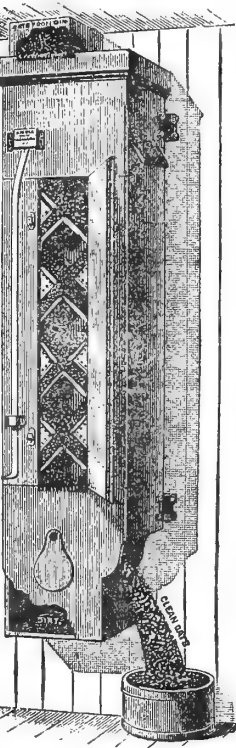
Same shape as Hog Troughs. This is an indispensable article for parties raising poultry. Is readily cleaned, and no leaking.

No. 0—8 in. long, 3 1/4 in. wide at top, 1 1/4 in. deep.....	\$.25
No. 1—20 in. long, 4 in. wide at top, 1 1/2 in. deep.....	.50
No. 2—24 in. long, 7 in. wide at top, 3 in. deep.....	1.00
No. 3—29 in. long, 7 in. wide at top, 3 in. deep.....	1.25



Iron Hog Troughs

No danger in winter, when frozen full of ice, for them to burst. Eleven inches wide at top, 2 inches wide at bottom and 6 inches deep. Made in lengths from 2 feet up to 8 feet, every 6 inches. Weight, per foot, 13 lbs. Price, 55c. per foot.



HIGBIE SELF-ACTING OATS CLEANER

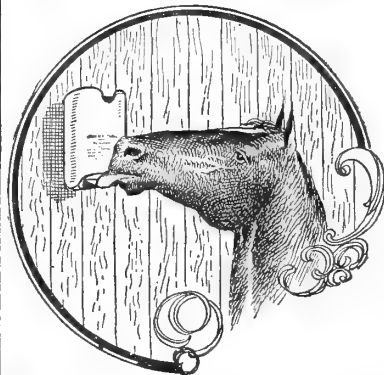
This cleaner will remove one bushel of dust, dirt, stones, sticks, etc., from every 25 to 30 bushels of cleaned oats; or, in other words, each horse chokes down 7 to 10 bushels of dust, dirt, etc., per year, unless all oats are drawn through a Higbie Self-Acting Oats Cleaner.

The dirt box is in the base of the Cleaner, and may be emptied through a hand-hole in the bottom.

Price, \$18.00.

In use by Express Companies, Fire Departments, Baltimore Transfer Co., Armour, Swift, etc.

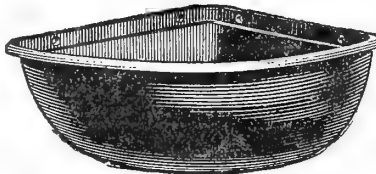
ROTO SALT FEEDER



We illustrate the above Roto Salt Feeder, which consists of a cylindrical stone ware holder which holds the Roto Salt Cake in such a manner that while it is convenient for horses and cattle can not be wasted, and is the most sanitary, most convenient and most economical method of feeding salt. Roto Salt Cakes are made of pure refined salt, and the feeder is the best style ever used. Very sanitary and easy to clean. Indorsed by veterinarians and stable men. Prices: Feeders, 25c. each. Salt Cakes, 25c. each.

	List.	Retail.		List.	Retail.
89—3 ft. long..	\$9.25	\$5.55	93—8 ft. long..	\$17.55	\$10.55
90—4 ft. long..	9.25	5.55	94—10 ft. long..	22.00	13.20
91—5 ft. long..	11.60	6.95	95—12 ft. long..	24.75	14.85
92—6 ft. long..	13.80	8.30			

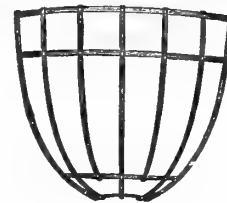
Above Troughs are 20 in. wide, 11 in. deep, hold 10 gal. per ft. Smaller sizes on application. **Special Discount for Cash.**



CORNER MANGERS

The "Sanitary." The rim is made of a superior quality of iron. The body of galvanized wrought steel. One of the best mangers in use. The government is using these "Sanitary" Manglers in preference to any other, large quantities being shipped to the Philippines.

No. 1—16 quarts. \$1.50. No. 2—22 quarts. Retail, \$1.75. **Special Prices in Quantities.**



CAST IRON CORNER MANGERS.
No. 1—16 in. long, 16 in. wide, 9 1/2 in. deep, flat front. Price, \$1.25.
No. 2—17 in. long, 17 in. wide, 10 in. deep, roll front. Price \$1.40.
Special Prices in Quantities.

WROUGHT HAY RACKS

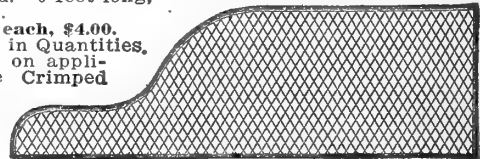
Far superior to cast iron Racks, as frequently used.
Price.....\$1.75.

CRIMPED WIRE STALL GUARDS

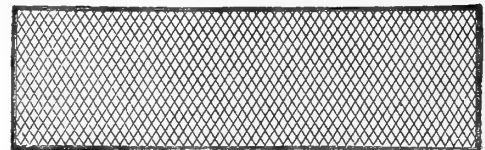
2 1/2-inch diamond mesh, No. 8 steel wire, with 1-inch channel iron frames. O. G. end, oval-banded top, screw holes bottom and end. 6 feet long, 25 inches high.

Price, each, \$4.00. **Special Prices in Quantities.**

Can furnish on application Square Crimped Wire Stall Guards, used for box stalls. Give size wanted. Per square foot, 50c.



Special Prices in Quantities.



Square Stall Guards.

HANDY TRACE HOLDER

Our Handy Trace Holder is just the device that has been wanted for years. Made of highest grade flexible steel, far superior to leather. Very handy and very neat. Put up in boxes of two dozen pairs. Price, per single pair, 10c.

We have been unable to secure the cut for the Trace Holder in time for this issue. Send for Illustrated Circular.

No. 183.



No. 480.

No. 183.—All steel, close back, 8 bars, plain knocker lacquered, enameled handle, brass ferrule, oval face, shank running through handle and riveted. Packed one dozen in box. Cases made for 24 dozen.
Price 20c. each, \$2.00 per dozen.

8 Bars, Hand Riveted

PATENT APPLIED FOR.

No. 480.—Columbia—Lacquered. Packed one dozen in box. Cases are made for 24 dozen.
Price, 25c. each; \$2.50 per dozen.

No. 238.

CYCLONE LEATHER HALTERS

One and a quarter-inch, with 1 1/4-in. leather lead. Price, \$1.35.
 No. 242—1 1/4-inch, with 1 1/4-inch leather lead. Price, \$1.25.

ROPE CATTLE TIES

No. 652—1/2 in. Manila rope, 8 ft. long, single snap. Price, 30c.
 No. 655—1/2 in. XX Sisal rope, 8 ft. long, single snap. Price, 20c.

WHITWASH BRUSHES



- | | |
|-------------------|--------|
| No. 7—Family | 15c. |
| No. 7—Black Buck | 30c. |
| No. 5—Daisy | 30c. |
| No. 8—Black Buck | 40c. |
| No. 80—Progress | 60c. |
| No. 8—Eclipse | 90c. |
| No. 80—Rose | \$1.00 |
| No. 80—Atlantic | 1.25 |
| No. 44—Super. ex. | 1.50 |
| No. 20—Rex | 1.75 |
| No. 30—Rex | 2.25 |
| No. 14—Extra fine | 2.50 |

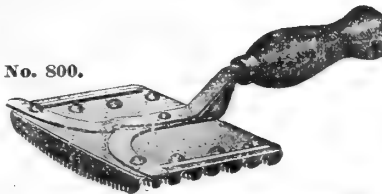
HORSE MUZZLES



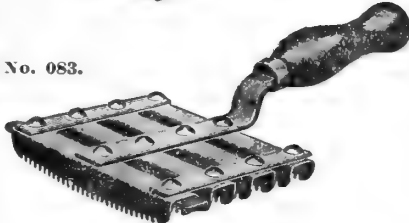
Well made and of good stout wire. Price, No. 16, braced, 10c.; No. 16, plain, 5c.



No. 800.



No. 083.



All Steel, Close Back

No. 800.—All steel, close back, lacquered, extra size, oval face, curved knockers, braced shank, extending through handle and riveted, enameled handle, brass ferrule, 8 bars.

Packed one dozen in a box. Cases made for 24 dozen.
Price 25c. each, 5 for \$1.00.

All Steel, Open Back

No. 083.—All steel, open back, 8 bars, plain knocker, japanned, carmine handle, steel ferrule, oval face, shank running through handle and riveted. Packed one dozen in box. Cases made for 24 doz.

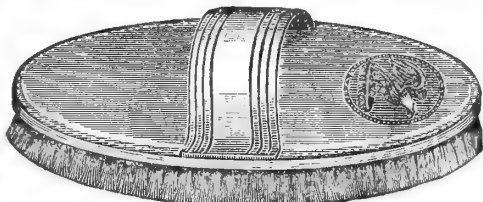
Each, 15c., \$1.50 dozen.

No. 490

Eight Bars, Extra Heavy. All steel shank runs through handle and is riveted.

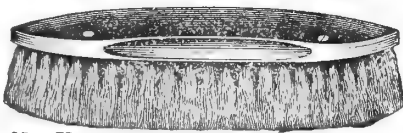
Price 25c. each, \$2.50 per doz.
 Packed one dozen in box. Cases are made for 24 dozen.

LEATHER BACK BRUSHES



- | | |
|---|------|
| No. 133—Patent Leather Back, each | 50c. |
| No. 333—Yellow Leather Back, each | 60c. |
| No. 59—Yellow Leather Back, each | 75c. |
| No. 443—Russet Leather, Flexible Back, Army, each | 1.00 |
| No. 226—All Bristle, Russet Leather Flexible Back, Army, each | 1.25 |
| No. 225—All Bristle, Leather, Flexible Back, each | 1.50 |
| No. 412—Warranted all white bristle, ea. | 2.00 |

DANDY BRUSHES



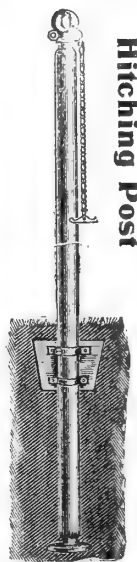
- | | |
|------------------------------|------|
| No. XX—Palmetto Dandy, each | 40c. |
| No. 4—Palmetto Dandy, each | 20c. |
| No. 805—Palmetto Dandy, each | 25c. |

HALTERS

- | | |
|---|--------|
| No. 197—13 Cord, No. 1 Web Sisal Ties | \$.40 |
| No. 1027—12 Cord Web, Leather Throat and Chin, Sisal Tie | .25 |
| No. 702—12 Cord, No. 2 Halter Web, Sisal Tie | .40 |
| No. 704—12 Cord, extra heavy Web, Russet color only, Sisal Tie | .50 |
| No. 363—12 Cord, (1 1/2-inch), extra heavy Russet, Web, 3 Snaps and 1 adjusting slide. Will fit any horse | .50 |

Cannot be broken or pulled out. Tubular steel, thoroughly painted. Anchor at top and ground level. Furnished with Weldless Steel Chain and Spring Snap complete. Price, \$2.00.

Hitching Post



ROPE HORSE TIES

- | | |
|--|------------|
| No. 652—Half-inch Manila, 10 ft. long (2 snaps) | Price 35c. |
| No. 667—Half-in. XX Sisal, 10 ft. long (2 snaps) | Price 25c. |

THE "UNIVERSAL SUCCESS" SPRAYER

Fig. 662 (Six Pumps in One).

This pump is fitted with a galvanized tank, holding five gallons. All working parts of the pump are brass, including brass ball valves. A sliding cover to prevent the liquid from splashing out; also a removable strainer is provided. When not in use the nozzles and attachment are screwed to keepers on side of tank. Four feet of hose and an extension pipe are furnished. Full directions with each pump. With each pump is shipped extra one small rubber discharge plug, which fits into any ordinary basin or bath tub waste opening for forcing out obstructions. One Fire Protector nozzle and Buggy Washer, in addition to the Bordeaux nozzle that is attached to the extension rod. When boxed for shipment outfit weighs about 30 pounds.
 Price, with Galvanized Tank, \$6.75.

This information came to hand too late for proper classification.



RUBBER PAD HORSE SHOES

Prevents slipping on icy pavements; can not catch in railroad frogs. Largely used on the smooth pavements in Washington.
 Price per Set of Four.

	Size 1	2	2 1/2	3	3 1/2	4	4 1/2	5	6
Medium list	\$3.70	\$4.00	4.30	4.60	4.90	\$5.20	5.50	\$6.00	\$6.50
Heavy list	4.00	4.30	4.60	4.90	5.20	5.50	5.80	6.00	6.50
Heavy hind list	3.70	4.00	4.30	4.60	4.90	5.20	5.50	5.80	6.00

Less 25 Per Cent. From Above List Prices.

Tilley Adjustable Patented Scaffolding Jacks.

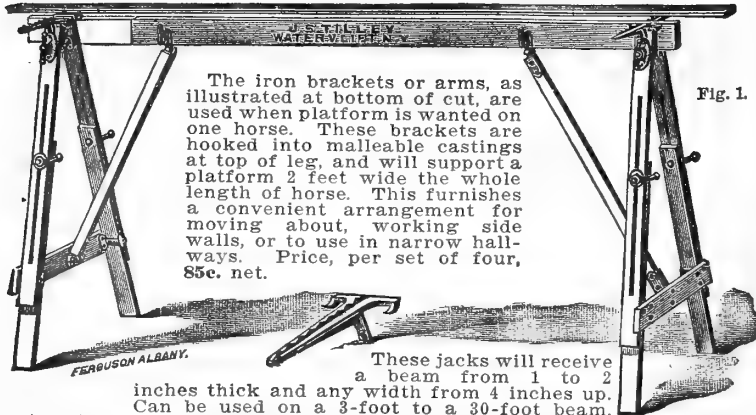


Fig. 1.

The iron brackets or arms, as illustrated at bottom of cut, are used when platform is wanted on one horse. These brackets are hooked into malleable castings at top of leg, and will support a platform 2 feet wide the whole length of horse. This furnishes a convenient arrangement for moving about, working side walls, or to use in narrow hallways. Price, per set of four, **85c. net.**

These jacks will receive a beam from 1 to 2 inches thick and any width from 4 inches up. Can be used on a 3-foot to a 30-foot beam.

Are light, strong and suitable for plasterers, carpenters, painters and paperhangers, the putting up of metal ceilings, shafting, pulleys, etc. Nos. 8 and 13 have an extra end brace on slotted legs, with iron brace at each end of same. Nos. 9, 10, 14, 15 and 16 have extra end braces, same as 8 and 13; also have an extra grip on friction bolt in each traveling leg, making the jacks much stronger than formerly. This improvement consists of suspension brackets, which permits of making a scaffold at any elevation lower than the height of the jack when down to its limit. These brackets can be used with jacks already sold. They cost but **60c.** With them and the proper size jack, the scaffold can be made to fit a store or basement.

Fig. 2 shows two jacks represented in Fig. 1 as "knocked down." It is unnecessary to comment upon its compact form.

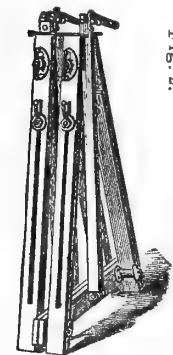


Fig. 2.

3 1/4 x 1 1/4 Slotted Leg.		3 1/4 x 1 1/4 Traveling Leg.	
No.	Per Jack.	No.	Per Jack.
5. Stands 3 ft. high, will extend to 5 ft.	\$2.50	6 ft.	2.50
6. " 4 " " " " " " " " " " " "	2.50	8 ft.	2.80
7. " 5 " " " " " " " " " " " "	2.80	9 ft.	3.20
8. " 6 " " " " " " " " " " " "	3.20	11 ft.	3.55
9. " 7 " " " " " " " " " " " "	3.55		
Brackets, per set of four, net.		.90	

EXTRA HEAVY FOR PLASTERERS AND MILL WORK.

4 x 1 1/4 Slotted Leg.		3 3/4 x 1 1/2 Traveling Leg.	
No.	Per Jack.	No.	Per Jack.
11. Stands 4 ft. high, will extend to 6 ft.	\$2.90	8 ft.	3.20
12. " 5 " " " " " " " " " " " "	3.20	9 ft.	3.60
13. " 6 " " " " " " " " " " " "	3.60	11 ft.	4.00
14. " 7 " " " " " " " " " " " "	4.00	12 ft. 6 in.	4.30
15. " 8 " " " " " " " " " " " "	4.30	15 ft.	6.00
16. " 10 " " " " " " " " " " " "	6.00		

OUR IMPROVED TILLEY EXTENSION LADDERS.

These ladders are stiff, strong and well built. Have improved patent spring locks attached to traveling sections, and are automatic in action. These locks are fastened securely to the inner sides of upper section, and made of the best malleable iron. They are also provided with a durable spring, which keeps the hook thrown forward and grasps each round of the stationary ladder as the traveling ladder passes upward. A tripper forces the hook back, allowing it to pass the rounds when descending.

PRICES.

24 ft., 2-12 ft. sec., extends 21 ft.	\$6.00
26 ft., 2-13 " " "	6.50
28 ft., 2-14 " " "	7.00
32 ft., 2-16 " " "	8.00
36 ft., 2-18 " " "	9.00
40 ft., 2-20 " " "	12.00

Other Lengths Given on Application. Windlass Ladders can be furnished if desired. Prices on application.

WINDOW BRACKET, OR PAINTERS' CRIPPLE.



Strong, folds up closely, and weighs but 24 pounds. Is made of the best material. Is safe, and can be quickly adjusted to any window. Particularly useful for setting glass and painting sash.

Regular Size, 4 ft. 4 in. board, **\$5.00 each.**
Extra Size, 6 ft. board, **\$6.00 each.**

Improved Tilley Step Ladders.

Tilley Improved Sectional Ladders.

Sections 6 feet 5 inches long. Either plate and pin lock or lock nut fastening. Per Section, **\$1.50.**

SINGLE LADDERS.

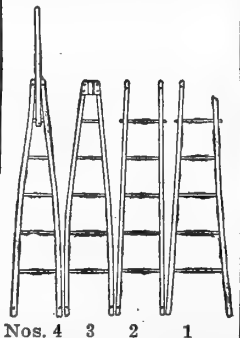
Made of spruce, with hand shaved oak rounds; first class in every particular.

Price.
12, 14, 16, 18 feet, **15c. per foot**
Ladders over 18 feet, **2c. per foot extra.**
Also have a cheaper single ladder, **2c. per foot** less than above prices.

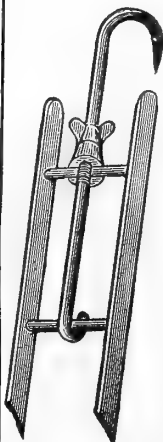
- No. 1—Bottom or floor section.
 - No. 2—Regular or middle section.
 - No. 3—Top window cleaners' section.
 - No. 4—Top fruit pickers' section.
- Price, any section, per section, **\$1.50.**

This old reliable and well-known ladder hook needs very little explanation. The cut explains all its merits and utility for a roof ladder. It can be quickly attached or detached. **Price 50c. each.**

Window Cleaners' and Fruit Pickers' Ladders.



Nos. 4 3 2 1

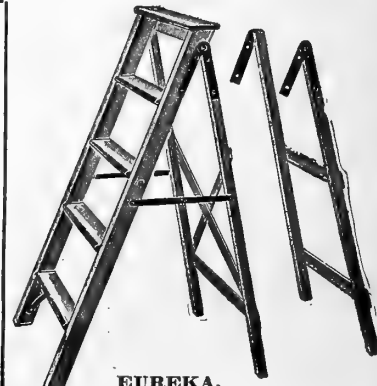


TILLEY LADDER HOOK.

TILLEY Trojan Step Ladder.



Light, strong and stiff. Iron knees under ends of each step. These knees pass entirely through the steps and side bars, holding ladders firmly together and insuring a strong brace to the steps. Pail rests on all sizes of 5 feet and over. Furnished in 6, 8, 10 and 12 foot lengths. **Price 30c. per foot.**



EUREKA.

Well adapted to any use to which step ladders are put. It has a special style of hinge, connecting front and back, bolted on, rodged, and well braced with iron. Some prefer the open back detached, as it admits of using a plank to make a platform more readily.

Prices of Step Ladders, With Pail Rest.

5 feet...	\$2.25	12 feet...	\$4.50
6 feet...	2.50	14 feet...	7.00
8 feet...	3.00	16 feet...	8.00
10 feet...	3.50	18 feet...	9.00

Also have a cheap Step Ladder, per foot, **15c.**

THE GRIFFITH & TURNER IMPROVED, COMBINED STEP AND EXTENSION LADDER.

THE MATERIAL USED.

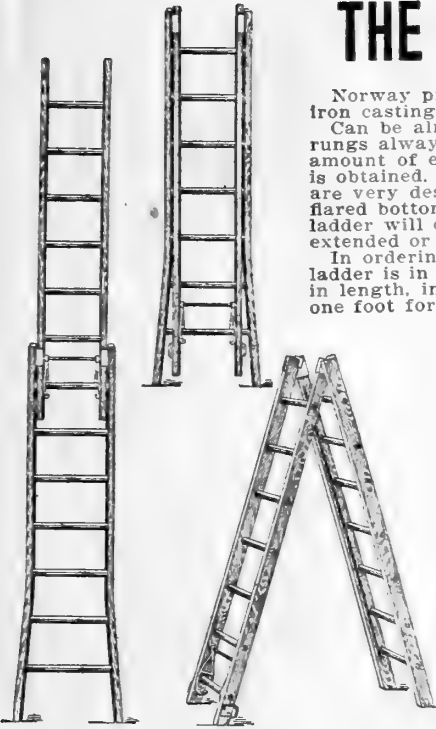
Norway pine for sides; rock elm or hickory for rungs; the very best grade of malleable iron castings for metal parts.

Can be almost instantly changed to any height up to nearly twice its closed length, the rungs always being exactly opposite each other in the lapped portion, no matter what the amount of extension; or by swinging the bottoms apart, a reliable and convenient stepladder is obtained. They can be extended or closed, and for any use that a stepladder can be used are very desirable. All ladders over 24 feet in length are made in two long sections, with flared bottom, adding to the rigidity and reducing the slipping at bottom to a minimum. This ladder will come apart and each section can be used separately. This style can, of course, be extended or closed, but does not swing apart, forming a stepladder, as does the other style.

In ordering, bear in mind that a certain amount has to be allowed for the "lap" when the ladder is in its most extended form, the amount of necessity increasing as the ladders increase in length, in order to obtain perfect safety and firmness. In lengths of 12 to 18 feet deduct one foot for lap—that is, a 12-foot ladder would be 6 feet high when closed or would form a 6-foot stepladder, but would be only 11 feet long when extended. In lengths of 20 to 32 feet deduct 2 feet, and from 34 to 40 deduct three feet from the total length in same manner.

PRICE LIST.

12-foot extension ladder makes 6-foot stepladder.....	\$2.16
14-foot extension ladder makes 7-foot stepladder.....	2.52
16-foot extension ladder makes 8-foot stepladder.....	2.88
18-foot extension ladder makes 9-foot stepladder.....	3.24
20-foot extension ladder makes 10-foot stepladder.....	3.60
22-foot extension ladder makes 11-foot stepladder.....	3.96
24-foot extension ladder makes 12-foot stepladder.....	4.32
26-foot extension ladder, in two sections of 12 and 14 feet each.....	5.20
28-foot extension ladder, in two sections of 12 and 16 feet each.....	5.60
30-foot extension ladder, in two sections of 14 and 16 feet each.....	6.00
32-foot extension ladder, in two sections of 14 and 18 feet each.....	6.40
34-foot extension ladder, in two sections of 16 and 18 feet each.....	6.80
36-foot extension ladder, in two sections of 16 and 20 feet each.....	7.20
38-foot extension ladder, in two sections of 18 and 20 feet each.....	7.60
40-foot extension ladder, in two sections of 18 and 22 feet each.....	8.00



BENT-RUNG

Step, Extension and Single Ladders



"A"-Shaped Trestles

STRONG AND LIGHT.
Made in All Sizes, From
6 Feet to 12 Feet.



Pair.	
2 6-ft. Trestles....	\$6.00
2 8-ft. Trestles....	8.00
2 10-ft. Trestles....	10.00
2 12-ft. Trestles....	12.00

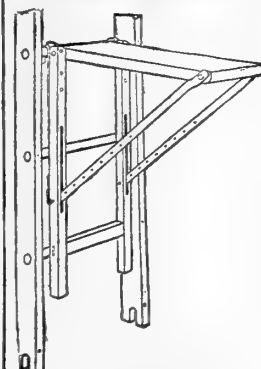
Extension Trestles



AUTO-MATIC LOCKING DEVICE.

No rods to take out, no thumb nut to adjust. One set of these Trestles will take the place of four sets of ordinary Trestles.

Ladder Brackets



Are adjustable to any angle of the ladder or any pitch of the roof. No fitting to the ladder. Price, each...\$3.00

THE NEW MODEL SEMI-TUBULAR STEEL BRACE.

A 16-foot Single Ladder weighs only 21 to 25 pounds. By drawing out a small rod at top of stepladder it can be converted into two separate ladders. These goods are made nearly altogether by hand, and are very much superior to factory ladders. No holes are bored in the side pieces, thus making them the strongest and lightest ladders made.

WOOD BENT-RUNG SINGLE LADDERS.

10 feet.....	\$2.50	14 feet.....	\$3.50	18 feet.....	\$4.80
12 feet.....	3.00	16 feet.....	4.00	20 feet.....	5.50
22 feet.....	6.00				

WOOD COLUMBIA BENT-RUNG DOUBLE STEPLADDERS.

4 feet.....	\$1.75	7 feet.....	\$3.00	10 feet.....	\$4.50
5 feet.....	2.10	8 feet.....	3.50	12 feet.....	7.00
6 feet.....	2.60	9 feet.....	4.00		

WOOD BENT-RUNG EXTENSION LADDERS.

Two Ladders.			Two Ladders.		
Each.	Extended.	Price.	Each.	Extended.	Price.
10 feet...	17 feet...	\$6.75	16 feet...	29 feet...	\$11.00
12 feet...	21 feet...	8.00	18 feet...	33 feet...	13.50
14 feet...	25 feet...	9.50	19 feet...	35 feet...	14.50
15 feet...	27 feet...	10.00	20 feet...	37 feet...	15.00

HASTING'S STEPLADDER with upright support under each step.

Stiff, Strong and Durable. All lengths, from 6 to 10 feet, 20c. per foot.

First Class in Every Particular. Special Prices to Paper-hangers, Painters and the Trade Generally on all Ladders.

WETTLING STEPLADDER. Good quality. All lengths, from 4 to 10 feet at 18c. per foot. Special prices in quantities.

6-foot will extend to about 8 feet.....each	\$4.00
7-foot will extend to about 12 feet.....each	4.50
8-foot will extend to about 14 feet.....each	5.00
9-foot will extend to about 16 feet.....each	6.00
10-foot will extend to about 18 feet.....each	7.00

Other lengths will be furnished on order.

HAND-POWER HORSE CLIPPING AND SHEEP SHEARING MACHINES

Progressive, up-to-date farmers and horse owners everywhere recognize the advantages of clipping horses.

STEWART No. 1 ENCLOSED TYPE CLIPPING MACHINE LATEST MODEL.

Has new style rigid base; tubular upright. All gears are cut from solid metal and are enclosed in a dust-proof metal box. They run constantly in a bath of oil, which reduces friction to a minimum. All wearing parts are hardened tool steel. New type, light, easy running, flexible shaft, 6 feet long.

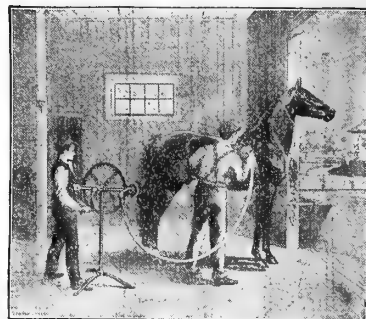
Complete, with one set of Stewart one-nut tension knives. Weight, boxed, 36 lbs. Price, each, \$7.50.



1902 CHICAGO CLIPPING MACHINE

STEWART PATENT.

Has positive power; rigid base; fine, strong crank handle; 6½-foot flexible steel shaft. All gears are cut from solid metal and wearing parts all tool steel, hardened. Can be turned with either right or left hand. Complete, with one set of Stewart's one-nut tension knives in case. Weight, boxed, 56 lbs. Price, each, \$10.75.



20th CENTURY CLIPPER

LIST OF PARTS OF NEW MODEL SHEAR.

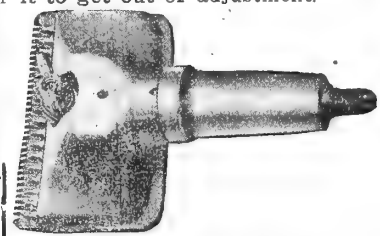
- 200 Handle shell. \$2.00
- 201 Leather guard .15
- 202 L'ther washer .10
- 203 Ferrule .15
- 204 Long spindle. 1.00
- 205 Cogs .40
- 206 Tension bolt. .10
- 207 Tension nut. .10
- 208 Eccentric roll .10
- 209 Yoke .45
- 210 Lid .100
- 211 Washer .05
- 212 Tension spring screw .05
- 213 Lid screws. .10
- 214 Yoke screws. .05
- 215 Stud screws. .10
- 216 Comb .50
- 217 Cutter .50
- 218 Tension spring .15
- 219 Short spindle .75
- 220 Lacing .10



Has 12-in. positive gear drive; steel flexible shaft 4½ ft. long. Complete with one set of Stewart one-nut tension knives. Weight, 15 lbs.; boxed, 20 lbs. Price, each \$5.00.

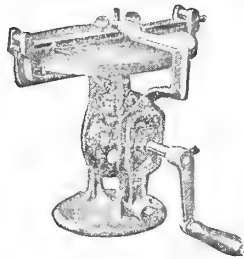
ALL THESE CLIPPING MACHINES ARE FITTED WITH THE STEWART ONE-NUT TENSION KNIFE. It is impossible for it to get out of adjustment.

- PRICE OF PARTS.**
- Knife and Handle. \$3.50
 - Top Plates. 1.00
 - Bottom Plates. 1.50
 - Shaft and Chain, per foot. .75
 - Shaft, less Chain, per foot. .50
 - Chain. .30
 - Handles only. 1.00



THE AUTOMATIC SHEARING KNIFE GRINDER

Sharpens a sheep shearing knife in a few seconds good as new. No skill required; it is automatic. This Grinder is for sheep shearing knives only. Weight, boxed, 36 lbs. Price, fitted for either horse clipper or sheep shearing knives, \$6.00. Fitted for both horse and sheep knives, \$6.50.



DUMP CART HARNESS

No. A—DUMP CART HARNESS.
Bridle, ¾ inch; Lines, ¾ inch; breeching, 3 inches; No. 5 Saddle, leather covered; No. 62 Iron-bound Hames; ¾-inch Hame Straps; Tug Chains; Kip Team Collar. Price, without lines, \$13.00; with lines, \$14.25.

No. 8—DUMP CART HARNESS.
Bridle, No. 218, with Winker Stays; Hames, No. 61, Virginia Hook, with straps; Collar, All Kip Team; Saddle, No. 8, Doubled and Stitched Top, full Pad, Leather Girth; Breeching, No. 5, 3-inch Double Body; 1½-inch Turnback; 1¼-inch Double Hip Straps. Price, without lines, \$19.00; with lines, \$20.50. Prices on Cheap Cart Harness on Application.

EDGERTON LEATHER DRESSING.

Contains no shellac, coppers or other injurious ingredient. When applied as per directions, will not rub off, but penetrates the leather and is pliant and waterproof. Restores original gloss and finish. Every ingredient a preserver and beautifier of leather. Rats and mice will not gnaw leather on which this oil is properly used. Price.....25c.

STEWART No. 8 COMBINED HORSE CLIPPING AND SHEEP SHEARING MACHINE. Consisting of No. 8 enclosed gear sheep-shearing machine, with complete horse clipper attachment. Price.....\$14.50

STEWART No. 6 COMBINED SHEEP SHEARING AND HORSE CLIPPING MACHINE. Consists of the 1902 Chicago horse-clipping machine; complete with complete shearing attachment, with four cones and four cutters. Price.....\$18.50

Stewart New Model Sheep Shearing Machine



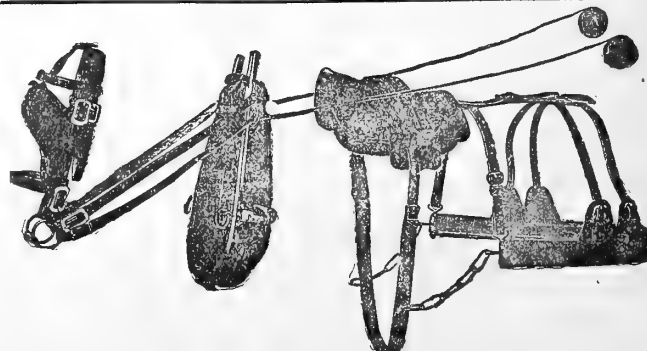
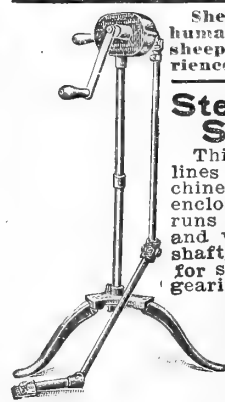
Has positive cut gear drive wheel, mounted on iron frame. The large gear engages the hardened tool steel pinion which connects with the universal joint flexible shaft having the balance tension knife and handle attached. All wearing parts are made from tool steel and hardened.

Weight, 52 lbs.; boxed, 70 lbs. Complete with 4 combs and 4 cutters, each...\$12.75
Extra top plates..... .50
Extra bottom plates.... .50

Shearing sheep by machine is profitable and humane. It saves ½ to 2 lbs. wool on every sheep, and they are not cut or backed. Experience is not required to operate the machine.

Stewart No. 8 Enclosed Gear Sheep Shearing Machine

This Shearing Machine is built on the same lines as the Stewart No. 1 Horse Clipping Machine. The gearing is all of cut steel and is enclosed in a dust-proof metal case, where it runs constantly in oil, thus reducing friction and wear to a minimum. The solid jointed shaft, which is the only type of shaft suitable for sheep shearing, is fitted directly to the gearing. Each machine is supplied with the latest and most improved shearing handle and four knives. The machine turns easily, shears fast and gets more wool from a sheep than it is possible to get by hand shears. Weight, boxed, 40 lbs. Price, complete, with four sets of knives, \$9.75.



CARRIAGE AND WAGON HARNESS

No. 700—SINGLE BUGGY HARNESS—Bridle, 5/8 inch; Traces, 1 inch; Saddle, 2 1/2 inches; Breast Collar and Breeching, single leather; Flat Lines, with Web-Hand parts; X-C Mounting. Price, with Collar and Hames, \$8.00; with Breast Collar, \$7.50.

No. 603—SINGLE BUGGY HARNESS—Bridle, 5/8 inch; Traces, 1 1/2 inches; Saddle, 3 inches; with Nickel Hook and Terrets; Breast Collar and Breeching, folded, with straight lay; Flat Lines; X-C Mounting; imitation Hand Stitched. Price, with Collar and Hames, \$11.25; with Breast Collar, \$10.50.

No. 4—SINGLE BUGGY HARNESS—Bridle, 5/8 inch; Traces, 1 1/2 inches; Saddle, 3 inches; Breast Collar and Breeching, folded, with straight lay; Flat Lines; X-C Mounting, with Nickel Hook and Terrets; imitation Hand Stitched. Price, with Collar and Hames, \$12.00; with Breast Collar, \$11.25.

No. A—HAND-MADE SINGLE BUGGY HARNESS—Bridle, 5/8 inch; Traces, 1 1/2 inches; Saddle, 3 inches, Hand Laced, Leather Lined; Breast Collar, 2 7/8 inches, V-shape, with 1 1/2 inch Single Leather Traces attached; Breeching, 1 1/2 inch Single Leather; Flat Lines; full Nickel or imitation Rubber Mounting; Hand Stitched. Price, with Collar and Hames, \$19.50; with Breast Collar, \$18.25.

No. 29—DOUBLE BUGGY HARNESS—Bridle, 5/8 inch; Traces, 1 inch; fancy bound Pads; 1 1/4 inch side pieces and folded Bellybands; Turnback, 3/4 inch; Hip Strap, 5/8 inch, with patent leather Drops; Flat Lines; Sheep Collars; X-C Mounting. Price, \$20.25.

No. 19—DOUBLE BUGGY HARNESS—Bridle, 5/8 inch; imitation Chain Front; Traces, 1 1/2 inches; fancy bound Pads under same; 1 1/4 inch side pieces and folded Bellybands; Turnback, 3/4 inch; no Hip Strap; Flat Lines; Kip Collars, full Nickel or imitation Rubber Mountings; imitation Hand Stitched. Price, \$26.50.

No. 35—DOUBLE BUGGY HARNESS—Bridle, 5/8 inch; Traces, 1 1/2 inches; Plain Pads, with leather Housings under same; 1 1/4 inch side pieces; folded Bellybands; Turnback, 3/4 inch, waved; Flat Lines; Kip Collars; Nickel or imitation Rubber Mounting; imitation Hand Stitched; nicely finished. Price, \$29.50.

No. 93—SINGLE CARRIAGE HARNESS—Bridle, 5/8 inch; Traces, 1 1/4 inches; Saddle, 3 1/2 inches; Breast Collar and Breeching, folded, with straight lay; Flat Lines; X-C Mounting; imitation Hand Stitched. Price, with Collar and Hames, \$13.50.

No. 94—SINGLE CARRIAGE HARNESS—Bridle, 3/4 inch, Chain Front; Traces, 1 1/4 inches; Saddle, 4 inches; Breast Collar and Breeching, folded, with straight lay; Flat Lines; Nickel Hook and Terrets, and balance of Mounting X-C; imitation Hand Stitched. Price, with Split Kip, Plain Front Collar, and Hames, \$16.50.

No. 354—SINGLE CARRIAGE HARNESS—Bridle, 5/8 inch Front; Traces, 1 1/2 inches; Saddle, 3 inches; Hand Laced, Leather Lined; Breast Collar and Breeching, folded, with wave lay; Flat Lines; full Nickel or imitation Rubber Mounting; imitation Hand Stitched. Price, with Collar and Hames, \$16.75; with Breast Collar, \$15.00.

No. 20—EXPRESS HARNESS—Bridle, 3/4 inch; Traces, 1 1/2 inches; to buckle to Hames or with Heel Chains and attached to Hames; Saddle, 4 1/2 inches, with Kersey Lining; folded Breeching, with straight lay; double Hip Straps; Brass or Nickel Mounting; imitation Hand Stitched. Price, \$22.75.

No. 27—EXPRESS HARNESS—Bridle, 3/4 inch; Traces, 1 1/4 inches; Saddle, 4 inches; red wood Hames, with X-C Ball Top; folding Breeching, with straight lay; double Hip Straps; X-C Mounting. Price, \$17.00.

No. 26—EXPRESS HARNESS—Bridle, 3/4 inch; Traces, 1 1/4 inches, with Cock Eyes; Saddle, 4 inches, with Kersey Lining; red wood Hames, with Brass Ball Top; folded Breeching, with straight lay; double Hip Straps; Brass Mounting; imitation Hand Stitched. Price, \$20.

No. 10 1/2—DOUBLE WAGON HARNESS—Bridle, 3/4 inch; Harness Leather Winkers; Ball Top Hames; 1 1/2 inch Traces, riveted to Hames, with Chain Ends; folded Pad and Breeching; 3/4 inch Double Hip Strap; Hog Collars; Flat Lines. Price, \$23.50.

No. 9—DOUBLE WAGON HARNESS—Bridle, 3/4 inch; Patent Leather Winkers; Ball Top Hames; 1 1/2 inch Traces, riveted to Hames, with Chain Ends; folded Pads and Breeching; 3/4 inch Double Hip Strap; Kip Collars; Flat Lines; imitation Hand Stitched. Price, \$33.50.

No. 17—HEAVY DOUBLE WAGON HARNESS—Bridle, 3/4 inch; Patent Leather Winkers; Box Loop Checks; Brass Ball Top Hames; 2-inch Traces, riveted to Hames, with Chain Ends; Heavy Pads and Breeching; 1 inch Double Hip Strap; Kip Collar; Flat Lines; imitation Hand Stitched. Price, \$40.00.

HORSEBACK GOODS ON APPLICATION.

HORSE COLLARS.

No. 75—DRAFT—Split Leather Rim and Back; Blacked Tick Face; Patent Fasteners, \$1.25.

No. 85—DRAFT—Black Split Leather Rim and Back; Sheep Face; Patent Fasteners, \$1.50.

No. 17—TEAM—Black Split Leather Rim and Back; Tick Face, extra lined, all hand-sewed, with Leather Thong; Patent Fasteners, \$1.75.

No. 571—TEAM—Hand-sewed, with Leather Thong; Black Split, Russet Sheep Face; Patent Fasteners, \$2.25.

No. 155—SCOTCH—Kip Rim and Back; extra lined Tick Face, all hand-sewed, with Thong; Patent Fasteners, \$2.50.

No. 1—CANAL—All Kip, Russet Face, hand-sewed, with heavy Thongs; Patent Fasteners, \$3.00.

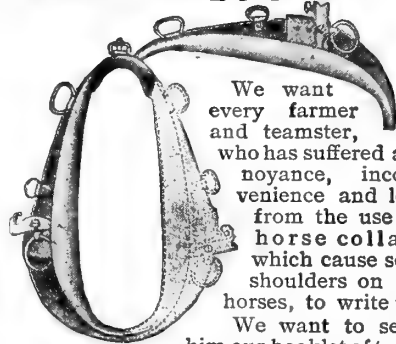
No. 52—BUGGY—All Kip, Blacked, 2 Buckles, \$1.65.

RAPID HARNESS MENDER.



Patented—February 2, 1886; March 27, 1888.
100 to the box. Price, 10c. per 100, by mail, 15c.

The Horse Collar That's Hameless And Padless



We want every farmer and teamster, who has suffered annoyance, inconvenience and loss from the use of horse collars which cause sore shoulders on his horses, to write us.

We want to send him our booklet of testimonials proving that our Hameless Adjustable Horse Collars not only prevent, but will cure, while working, the sores on shoulders and necks of horses.

They prove that ours is the ideal Horse Collar in all climates, and under all conditions.

They are cheaper because they don't wear out, and because there are no hames or sweat pads to buy.

They are better because they are lighter and stronger.

They save time whenever the team is hooked up, or unharnessed.

They are easily and quickly attached to any style of harness.

No farmer or teamster can afford to now use the old style collars with its drawing, rolling, puckering, pinching motion, which rubs the flesh into sores.

It's economy, it's convenience, it's horse comfort to use a hard, perfectly adjusted and fitted metal collar.

Read what Hon. L. W. Watkins, Farm Machinery Expert of the Michigan State Board of Agriculture, says about them:

"My attention was first called to the Adjustable Hameless Collar by Hon. Chas. A. Waldron, V. S., of Tecumseh, Mich., member of the State Examining Board.

I procured two sets of these collars from the manufacturers at Caro, Mich., and have used them two full seasons in the heaviest farm work—such as on corn harvesters, plowing with Great Western gang plows, largest size manure spreaders, etc., and I believe them as near perfect as can be. They are smooth and firm, with no twisting or leverage of hames, and are perfectly adjustable. I have discarded all other collars from my team harnesses, and use no other. I am not an agent and am in no way interested in the sales. Without being asked to do so I send this deserved testimonial of their usefulness for the benefit of my friends."

Write today for catalog and prices. Don't wait till the rush of spring work comes on. Agents and dealers make good money selling these collars—Free territory.

Prices.
16-inch Collar.....\$4.75 each.
18-inch Collar..... 5.00 each.
20-inch Collar..... 5.25 each.
22-inch Collar..... 5.50 each.
Any size adjustable to 1 1/2 inches longer.

SWEAT PADS—Feltless



Pinked, Felt Edges, Composite Filling, Four Hooks. Old Gold Drill, best on the market. 50c.

Cheaper Old Gold, 45c.

BROWN AND WHITE DRILL PADS.

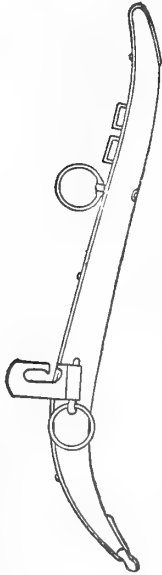
10-in. 25c 11-in. 30c 12-in. 35c

RIVET PUNCH



FOR MENDING HARNESS, BELTING, ETC.

Tom Thumb.....40c.
Uncle Sam.....50c.
Plymouth.....50c.
Rivets, box of 50.....10c.
Rivets, box of 100.....15c.
Four boxes.....50c.

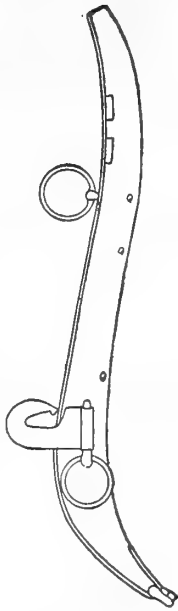


**No. 2
Hame**

¾-inch steel backs. Two top strap loops. One stud line ring. Single steel hooks and rings. Varnished. Size, 19 to 20 inches. Price, **40c.** pair.

No. 1 HAME.

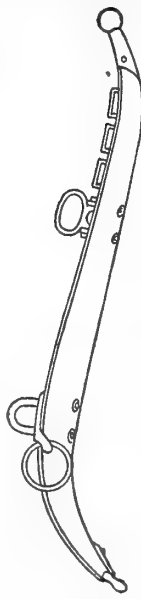
Same as No. 2, except it has 3 top strap loops instead of 2, as above. Price, **50c.**



No. 61.

Virginia Cart Hame

Rock elm or ash wood. 1½-inch stiff-bottom loops. ¾x¾-inch steel backs. Three mortise top loops. Heavy wrought steel hooks. Varnished. Polished irons. Size, 19 to 22 inches. Price, **80c.** pair.



No. 15.

X. C. Hame

Has hook in wood, instead of clip, as shown in cut. Rock elm wood. ¾-inch steel backs. Three top strap loops. Two stud line rings. Clip staples and hold-backs. Double steel hooks and rings. X. C. ball, painted red. Size, 19 to 21 inches. Price, **75c.** pair.

Queen City Hame

Pat. adjustable malleable draft hook. Rock Elm, 19 to 21 inches, pair, **75c.**

ADJUSTABLE HAMELESS COLLARS

Made of steel, thoroughly galvanized to prevent rusting. No Hames used, tugs fasten on to the collar.

Leather or Tick Collars will stick to the skin; when the horse gets warm the moisture softens the skin, muscles get soft and the constant rubbing soon makes a sore. With the steel collar this cannot happen. Every horseman knows that the hardest and most unyielding surfaces are most in favor with those who give their work horses careful attention.

In appearance it is much like the ordinary collar, the smooth surface is rounded carefully to the shape of the horse's neck. No sharp edges to cut the skin or cause a sore.

No. 14, adjusting from 14 to 15½ in. in length.	Price... \$4.50
No. 16, adjusting from 16 to 17½ in. in length.	Price... 4.75
No. 18, adjusting from 18 to 19½ in. in length.	Price... 5.00
No. 20, adjusting from 20 to 21½ in. in length.	Price... 5.25
No. 22, adjusting from 22 to 23½ in. in length.	Price... 5.50
No. 24, adjusting from 24 to 25½ in. in length.	Price... 6.00

Above prices include one complete set of Tug Attachments.

**Lighter than the Ordinary Collar and Hames.
For Other Collars See Page 145.**

TRIUMPH CHAINS.

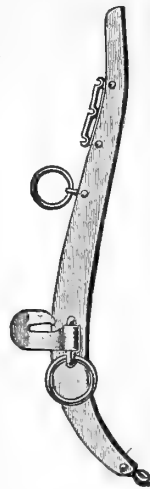
Triumph Chains; very light; possess great strength; all links have equal strength. Do not kink; no welds to give way; no sharp edges.

- | | |
|--|----------------------------|
| No. 3-0—Triumph Cow Tie (Ohio pattern), ea., 35c. | 4-0. \$.40 |
| No. 3-0—4½ ft. Triumph Halter, ea., 35c. | 6 ft.40 |
| No. 1—20 ft. Triumph Tethering Chain, each. | .95 |
| No. 0—20 ft. Triumph Tethering Chain, heavy, each. | 1.10 |
| No. 0—30 ft. Triumph Tethering Chain, each. | 1.30 |

BREAST CHAINS.

- | | |
|--|---------------|
| 26-inch—5-16 in. iron, double twist, tapered, stiff, pair. | \$1.25 |
| 26-inch—¾ in. iron, double twist, not tapered, stiff, pair | 1.00 |
| 27-inch—Double slack, twist, pair. | .80 |
| 26-inch—12-2, single slack, pair. | .55 |
| No. 46—Cart Tug Chains, 18-10-1, per pair. | .30 |

No. 67—**FIFTH CHAIN**—Round hook, ring and swivel, bright or black, made with stretchers also if desired. 10x¾, with Reg. Hook, per lb., **9c.**



Mocks Steel Hame

Rust-proof, electro-galvanized. Non-breakable. For heavy work, such as contractors and lumbermen, etc. Price, 19 to 21 in., per pair, **\$1.00**; 22 to 24 in., per pair, **\$1.10.**



Root and Sawed Hames

Per Pair. Loudon Patent. **\$1.00**
Loudon Tie. **.75**
Taylor Root Pat. **.60**
Taylor Root Tie. **.50**
Special prices to both wholesale and retail dealers.

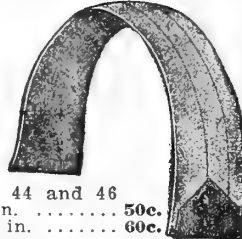


Baltimore Strap Hame

¾x7-32 in. flat steel, selected second-growth, air-seasoned timber, extra wide woods, superior finish, hand forged, extra heavy steel hook,

HAME STRINGS. Black.
5/8"x42" slit, each. **10c.**
¾"x42" slit, each. **12c.**
Rawhide.
5/8"x42" slit, each. **10c.**

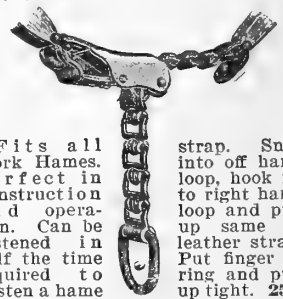
FOLDED DUCK BACK BANDS.



- | | |
|---------------------------|-------------|
| 42, 44 and 46 in. | 50c. |
| 48 in. | 60c. |

Boss Back Band Hooks.
Per pair, 3½ in. **\$.10**
Per pair, 4 in. **.12**

DODSON'S IMPROVED FLAT LINK STEEL HAME CHAINS.



Fits all Work Hames. Perfect in construction and operation. Can be fastened in half the time required to fasten a hame strap. Snap into off hame loop, hook into right hame loop and pull up same as leather strap. Put finger in ring and pull up tight. **25c.**

WEB BACK BANDS.

- | | |
|---|---|
| No. 1, 3½ in., 42 in. long, 20c. | No. 2, 3½ in., 42 in. long, 15c. |
| No. 1, 4 in., 42 in. long, 25c. | No. 2, 4 in., 42 in. long, 20c. |

BROWN STEEL COW TIES AND HALTER CHAINS.

- | | |
|--|------------|
| No. 3-0—Brown Steel Cow Ties (Ohio pattern), each. | .25 |
| No. 4-0—Brown Steel Cow Ties (Ohio pattern), each. | .30 |
| No. 3-0—Brown Steel Halter Chains, 4½ feet. | .25 |

SPREADER AND LOG CHAINS.

- | | |
|---|-------------------------------|
| Straight Link Slack Spreader Chain, 5-16, \$1.50. | ¾. \$1.75 |
| ¾ Close Link Straight Spreader Chain, for two horses, with three hooks, each. | 2.50 |
| Chain Repair Links, ¼ or 10, 2-do., 15c. | 9-32 or 10, 1-do., .20 |
| Open Side Lap Links, polished, ½x2½, each, 8c. | ¾x2½, each, 10c. |
| Open Side Rings, ¾x2½, each. | .12 |
| Open Side Rings, ¾x2½, each. | .10 |
| Open Side Rings, ¾x2½, each. | .10 |
| Long Link Log or Ox Chain, ¾ in., 12 or 14 ft. 14c. lb. | List Price. Retail .08 |
| Long Link Log or Ox Chain, ¾ in., 12 or 14 ft. 13c. lb. | List Price. Retail .08 |
| Long Link Log or Ox Chain, ¾ in., 12 or 14 ft. 12½c. lb. | List Price. Retail .07 |

REGULAR IRON TRACE CHAINS.

- | | |
|-----------------------------------|-----------------------------------|
| 6½-10-3, List price, \$.88 pair. | Retail price, \$.45 pair. |
| 7 - 8-2, List price, .93 pair. | Retail price, .50 pair. |
| 7 -10-2, List price, 1.06 pair. | Retail price, .55 pair. |
| 7 -12-2, List price, 1.20 pair. | Retail price, .65 pair. |
| 7 -14-2, List price, 1.40 pair. | Retail price, .70 pair. |
| 7 -16-2, List price, 1.65 pair. | Retail price, .90 pair. |



ADJUSTABLE STORM FRONT.

Is strictly adjustable. One size will fit any piano-box buggy. One size fits all Phaetons, Stanhopes, etc.

The material is Calendered Rubber Cloth, strong and durable. The window is 12x20 inches, made of fine celluloid, as transparent as any window glass, which can be bent or rolled up without the least danger of breaking.

The line hole is 14 inches long, has a light metal edge, so the reins cannot tear out or sag the cloth. It has a broad flap that prevents the entrance of water, wind or snow.

BUGGY SIZE.

- No. 4—Black Rubber, 28 ounces.....\$3.50
- No. 5—Black Rubber, 22 ounces..... 3.00

PHAETON AND STANHOPE SIZE.

- No. 134—Black Rubber Cloth, 28 ounces....\$4.00
- No. 135—Black Rubber Cloth, 28 ounces.... 3.50



ADJUSTABLE STORM APRONS.

These Aprons are made of the best quality rubber cloth. They are fastened to the dash by two steel clamps shaped like clothespins. All Aprons, except No. 45, are 50 inches from dash to straps, and 72 inches from side to side. No. 45 is 50 inches from dash to strap, and 60 inches from side to side.

- No. 53—Melodian Rubber Cloth, 28 ounces, each.....\$1.65
- No. 54—Black Rubber Cloth, 28 ounces, each..... 1.50
- No. 55—Black Rubber Cloth, 22 ounces, each..... 1.25
- No. 45—Black Rubber Cloth, 22 ounces, each..... 1.15



DUST HOOD.

NO MEASURING
REQUIRED.

This 1905 model will fit any buggy top from 36 to 44 inches wide, and it looks better than a made-to-order hood.

The objection to most hoods is the wrinkles and puckering. All this has been done away with.

- No. 6—Black Rubber, 22 ounces.....\$1.25

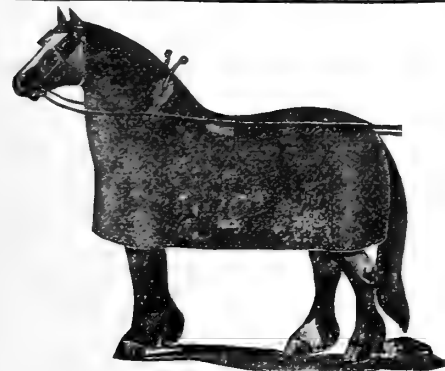
KITCHEN APRON.

Used by housewives when washing dishes, baking or doing any ordinary work in the kitchen.

This Apron is water and grease proof, and protects the dress from water, grease, etc.

Size, 36x45 inches, complete with strings.

- No. 105—Black Rubber, 75c.
 - No. 106—White Rubber, \$1.25
- If wanted by mail add 15c. for postage.



HORSE COVERS.

All covers have large hame leathers; line rings riveted on hame leathers; snap and rings at trace; strap and buckles at breast; line pocket at saddle, and can be used for double or single team. Four sizes: 5 feet and 5 feet 4 inches.

- No. PRICE:
- 200—Black Oiled Sheeting, to neck...\$2.25
 - 201—Black Oiled Sheeting, to head.... 2.50
 - 84—Brown Duck, waterproofed, to neck 3.00
 - 83—Brown Duck, waterproofed, to head 3.50

- 190—Fleece-Lined Cover, to neck....\$3.00
- 191—Fleece-Lined Cover, to head..... 3.50

Nos. 190 and 191 Covers measure 66 inches over back. Two sizes: 4 feet 8 inches, and 5 feet. Measurement, hame to tail.



Rubber Blanket Aprons.

This is a Combination Rain Apron and Blanket Robe. The outside is Melodian Rubber Cloth and the inside is a heavy blanket lining and strictly waterproof.

Fits any size dash, and is fastened to the dash with two steel clamps, and is complete with straps and line pocket.

All robes are 50 ins. from dash to strap.

- No. 18—48x56 inches.....\$2.25



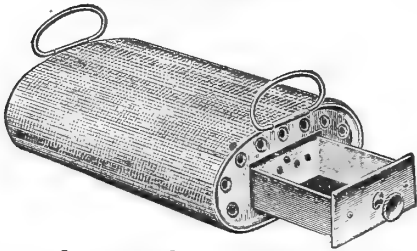
WASH APRON

This Apron is made of heavy waterproof Duck, and is strictly waterproof; it is used by liverymen, butchers, laundries, creameries, packing-houses, etc.

- No. 163.....\$1.25

Clark's Carriage Heaters

No. 5 B

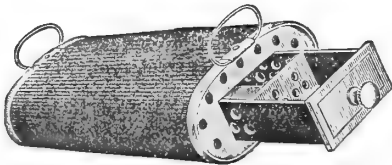


Strong, Ornamental, Convenient. Cannot be crushed or bent.

No. 5 B—Clark Heater, 12 inches long, otherwise same as the 3 D, except carpet is not braided bound. Weight, 4 pounds. Price, \$1.50.

No. 5—12 inches long, white metal ends, not covered. \$1.25.

No. 3 D



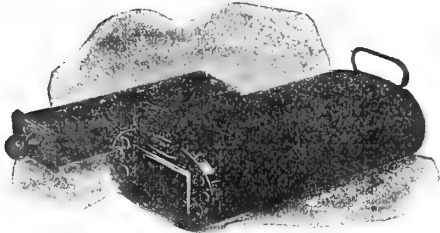
No. 3 D—Clark Heater, 14 inches long, sheet metal case, stamped white metal ends, covering of braided-bound Brussels carpet. Weight, 7 pounds. Price, \$2.00.

No. 7 D



No. 7 D—Clark Heater, 14 inches long, nickel-plated steel ends, heavily reinforced, covered with Brussels carpet, slanting top, adjustable side and end ventilators. Can be regulated so as to increase or diminish the heat or entirely stop combustion and save coal for future use. Weight, 7 pounds. Price, \$2.25.

No. 1



No. 1—Clark Heater, 14 inches long, ends of heavy cast metal, nicely polished and nickel plated. Is made extra strong and heavy and cannot be crushed or even bent. It is covered with royal velvet carpet, underneath which is a special asbestos packing, which makes scorching of carpet impossible. Weight, about 10 pounds. Price, \$3.00.

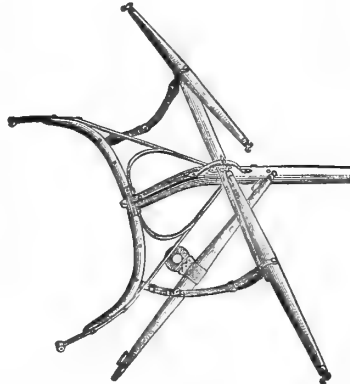
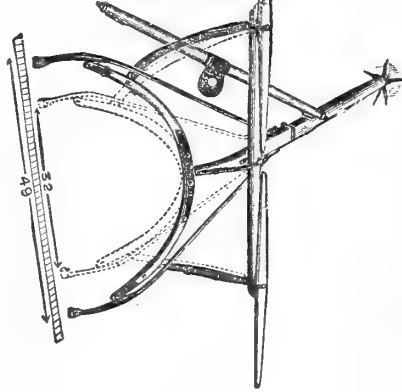
CAKE OF PREPARED COAL



One cake will last 15 to 16 hours. No smoke, odor, flame or gas. Price, case of 1 dozen cakes, 75c.
Per case of 100 bricks, \$6.00. A B C Coal, per doz, 60c. A B C, case of 100 bricks, \$4.80.

No. 1 PATENTED SHIFTING OR ADJUSTABLE POLE

Shifts to fit any carriage or sleigh. Best selected timber; ironed with Norway iron. Ironed, complete, painted. List, \$16.00. Retail, \$10.00.



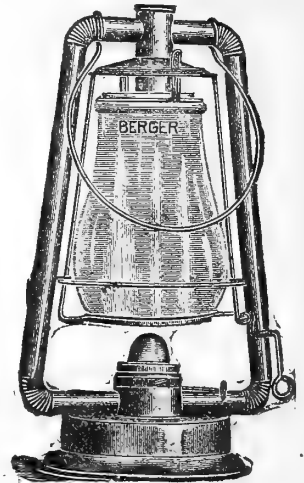
"BALTIMORE" IRONED CARRIAGE POLE

Is well ironed with wrought iron tees; double or single hammer strap; heavy drop-forged stay irons. In every way suitable for medium grade work. Prices are for Pole complete, which includes neck yoke, double and single trees and check straps. Ironed, complete, painted. List, \$11.00. Retail, \$6.50. Dayton Pole, List, \$12.00. Retail, \$7.00.

Our "Y" Third Seat

Makes it as easy for three in carriage as for two without it. Most comfortable, convenient and compact third seat ever offered. Used also for picnics, ball-games, etc. Three heights. 7 1/2 in., \$1.00. 11-in., \$1.25. 17-in., \$1.50.

BERGER'S SIDE AND BAIL LIFT No. 0 TUBULAR LANTERNS



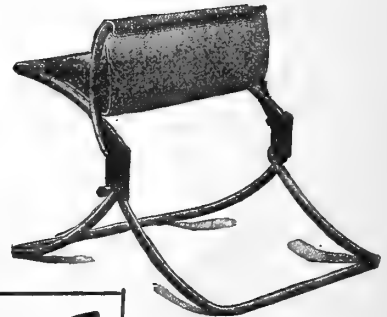
Patented One-piece Crimped Tubes. No. 1 Burner, 5/8-inch Wick, No. 0 Globe, Lock Burner, Simplicity Side Lift, Retinned and Tested Founts. Especially designed for severe usage, and is used principally in mills, barns, warehouses, lumber yards, freight houses, etc. Price, 60c.

No. 0 DASHBOARD.

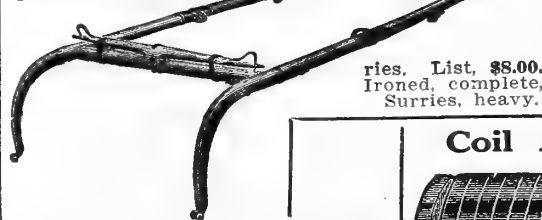
Furnished in Bull's-Eye Globes, No. 1 Burner, 5/8-inch Wick, No. 0 Globe, Improved Catch. Finished in plain or blued tin. Patented one-piece crimped tubes. Price, \$1.00. Hood Reflector Dashboard Lantern. Price, \$1.50.

No. 2 STORM KING COLD BLAST LANTERNS.

A veritable stream of clear, white, smokeless light, resulting from perfect combustion, which light the fiercest gales cannot blow out or "fiercest" roads jolt out. Price, \$1.00.



Shafts

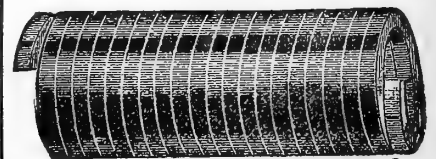


Ironed, complete, painted, for Buggies. List, \$7.00. Retail, \$4.25.
Ironed, complete, painted, for Daytons and Surries. List, \$8.00. Retail, \$5.00.
Ironed, complete, painted, for Daytons and Surries, heavy. List, \$9.00. Retail, \$5.50.

Solid Cut Axle Washers

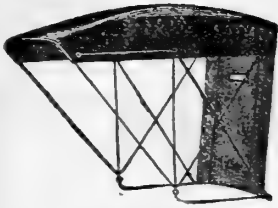
5 Sets in a Box.
3/4 inch, per box, 20c.
7/8 inch, per box, 25c.
1 inch, per box, 30c.
1 1/4 inches, per box, 30c.
1 3/4 inches, per box, 35c.

Coil Axle Washers



100 Washers in a box. 7/8 in., per box, 20c. 1 in., per box, 20c.

BUGGY TOPS

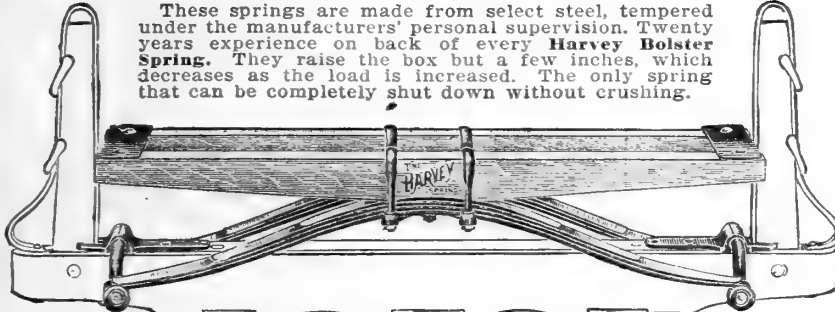


Drill Top, lined with nice union cloth. Tubular sockets and second-growth bows, wrought rail and joints, stitched front valance, does not show nails or tacks. Will keep in shape. **Side Curtains are included**, making top complete. List, \$15.00. Retail, \$8.50.

Rubber Top, cloth lined, tubular sockets and second-growth bows, wrought rail and joints, stitched front valance, no nails or tacks exposed. Will keep shape for years. Complete with side curtains. List, \$17.00. Retail, \$9.50.

HARVEY XXX BOLSTER SPRINGS

These springs are made from select steel, tempered under the manufacturers' personal supervision. Twenty years experience on back of every **Harvey Bolster Spring**. They raise the box but a few inches, which decreases as the load is increased. The only spring that can be completely shut down without crushing.



Capcy.	42 in.	44 in.	Capcy.	42 in.	44 in.	Capcy.	42 in.	44 in.
1000	\$7.50	\$8.00	3000	\$12.00	\$13.00	7000	\$19.00	\$20.00
1500	8.00	8.50	4000	13.00	14.00	8000	20.50	21.50
2000	10.00	11.00	5000	14.00	15.00	9000	22.00	23.00
2500	11.00	12.00	6000	17.50	18.50	10000	23.50	24.50

Less 30 per cent. retail from above prices.

HARVEY, Jr., BOLSTER SPRING



For One-Horse Wagons Only.



SPECIAL

Closing out sale of
the Common Sense and North
Bolster Springs at 30 per cent. from prices named.

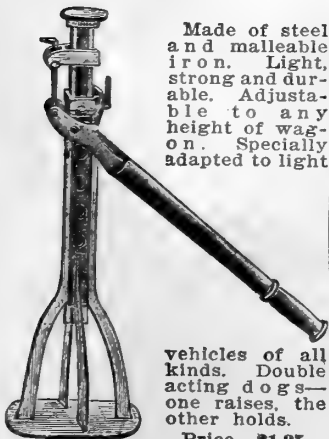
To carry 1000 lbs..Per set, \$5.00	To carry 3000 lbs..Per set, \$7.50
To carry 1500 lbs..Per set, 5.50	To carry 4000 lbs..Per set, 8.00
To carry 2000 lbs..Per set, 6.00	To carry 5000 lbs..Per set, 9.00
To carry 2500 lbs..Per set, 7.00	To carry 6000 lbs..Per set, 10.00

The Common Sense Bolster Spring

NORTH PATENT ADJUSTABLE BOLSTER SPRING

1000 lbs., \$5.00	To carry 300 lbs., \$7.50	2000 lbs., \$6.50	To carry 5000 lbs., \$9.00
1500 lbs., 6.00	To carry 4000 lbs., 8.00	2500 lbs., 7.00	To carry 6000 lbs., 11.00

EUREKA WAGON JACK



Made of steel and malleable iron. Light, strong and durable. Adjustable to any height of wagon. Specially adapted to light

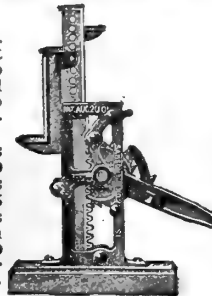
vehicles of all kinds. Double acting dogs—one raises, the other holds.
Price, \$1.25.

Improved Sampson Jack

Malleable Iron.

Best Jack on the market. Can be used for any height axle. Standard cannot drop back on cogs when raised to extreme height. No breaking of cogs and standards.

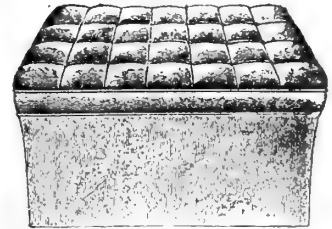
No. 1—Will raise vehicles weighing 2 tons....\$2.50
No. 2—Will raise vehicles weighing 5 tons....\$3.25
No. 2—Will raise vehicles weighing 5 tons, with drop hook.....\$3.50
Can also furnish other Jacks. Prices on application.



No. 1—Adapted for buggies or light work. Capacity, 2000 lbs. \$1.00.
No. 2—For heavy wagons, transfer wagons, trucks, etc. Capacity from 3000 to 5000 lbs. \$1.25.
No. 3—\$1.75.
We also have a cheap Jack, very simple in construction, but one which is easily handled, and which is all right for light work. Price, 50c.

Corded Top Cushion

WITH FALL.

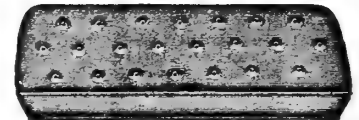


NICELY MADE.—In ordering Cushions, give size of bottom of seat inside, size of fall at top and bottom, and depth from top of sill, or enclose paper pattern.
Union Cloth—List, \$4.00. Retail, \$2.50.
Rubber Drill—List, \$4.50. Retail, \$2.75.
Imitation Leather—List, \$6.00. Retail, \$3.75.

BUGGY BACK

In ordering Backs, give exact measurement of seat at top of rim, from out to out; or, if seat is ready ironed up with back board in position, send paper pattern of the exact size and shape of back wanted.
Enameled Drill—List, \$5.00. Retail, \$3.00.
Heavy Rubber—List, \$6.00. Retail, \$3.50.

Wagon Cushion



Black Enameled Drill, 20 to 34 inches long, stitched edge. List, \$1.30. Retail, 85c.
Black Enameled Drill, corded edge. List, \$2.00. Retail, \$1.50.

WHEELS FINISHED.

Buggy, per set..List, \$22.00 Retail, \$15.00
Dayton, per set..List, 26.00 Retail, 18.00

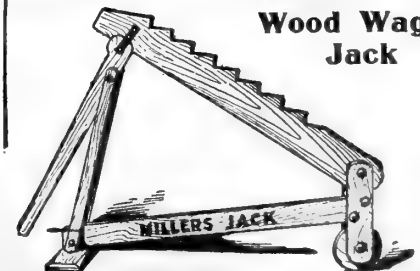
EUREKA AUTO JACK No. 3



A little wonder. Light but strong. Small but powerful. Will easily lift a heavy car. Weight, four pounds; capacity, 2000 pounds. Handle detachably connected. Raises or lowers by same handle.

Price, \$1.25.

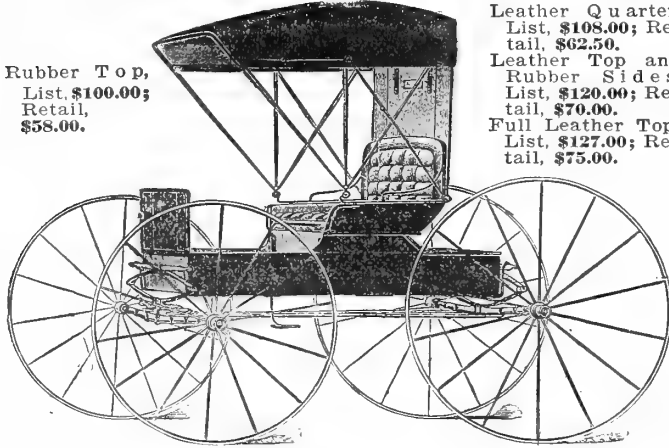
Wood Wagon Jack



Baltimore Three-Leaf Elliptic, End Spring Buggy

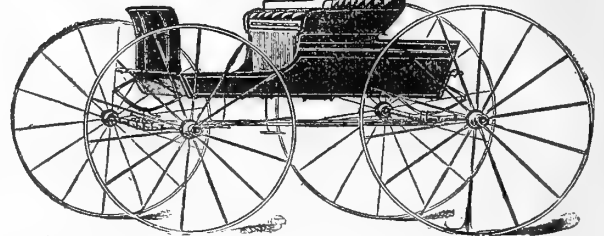
Furnished in wood crossbars or Bailey Loop Hanger. Gear painted any color desired—black, green and carmine in stock. Axles, 7/8-inch double collar steel. Warner or Sarven Wheels, No. 1 quality, 3/4 or 7/8 inch tread; tire bolted between every spoke. Body 22 inches wide; seat regular width. Trimmings in leather.

Rubber Top,
List, \$100.00;
Retail,
\$58.00.



Leather Quarter,
List, \$108.00; Retail, \$62.50.
Leather Top and Rubber Sides,
List, \$120.00; Retail, \$70.00.
Full Leather Top,
List, \$127.00; Retail, \$75.00.

Baltimore Road Wagon

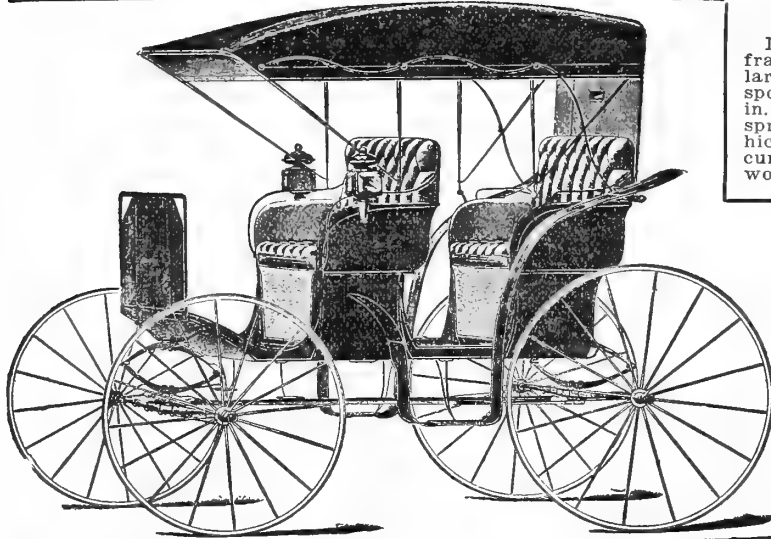


Wheels, Sarven patent; 7/8 tread, with round edge steel tire. Gear, fantail and swedged; three-leaf 34-in. spring; axles bedded and reaches ironed. Body, size 49x24 in. on bottom; round corners and concave seat risers; steel body loops. Seat, size 16x27 in., with detachable panel back. Trimmings, leather dash; carpet in bottom; cushion and back green cloth or imitation leather. Painting, body black, gear Brewster green. List, \$68.00. Retail, \$40.00.

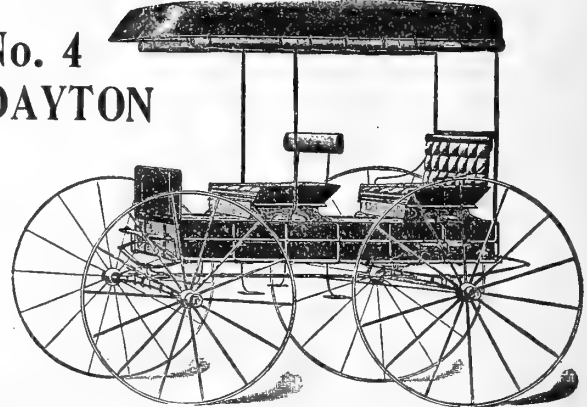
STUDEBAKER WORLD BUGGY

No. 805—Axles, drop pattern, 15-16 in. Wheels, Sarven, screwed rims, 40 and 44 in. high. Body, 22x54-in. bottom; panel seat, solid back. Body black, gear dark green or carmine. Leather quarter and stay. List price, \$105.00; Retail price, \$65.00 f. o. b. factory.

We frequently have special styles of Buggies and Road Wagons that are not catalogued, on which we could make attractive prices. Write us for styles and quotations.



No. 4 DAYTON



Length of body, 5 ft. 10 in.; width, 2 ft. 10 1/2 in.; frame and seats best white ash; panels best No. 1 poplar. Wheels, 3 ft. 9 in. and 3 ft. 5 in. high; 11-16-in. spoke; Warner or shell band; 1 1/4-in. steel tire; 11-16-in. steel axle; front spring 1 3/4 in., 4-ply; two back springs 1 1/2 in., 4-ply, oil tempered. Gear, best white hickory. Cushions trimmed either in leather or cloth; curtains, 24 oz.; green back, gum. Finished natural wood or painted as desired; hung on Brewster springs.

PRICE.

List	\$112.00
Retail	65.00

Can also furnish in duplex or side bar at same price.

No. 77 Extension Top Surrey

Wheels, Warner, Sarven or shell band; 7/8 or 1 inch tread; steel tire, bolted between every spoke. Axles, 11-16-inch, plain taper; springs oil tempered. Body, seats are 35 1/2 inches wide and 17 inches deep. Trimming, cloth or whipcord; leather extra; spring cushions and spring backs; rubber side curtains.

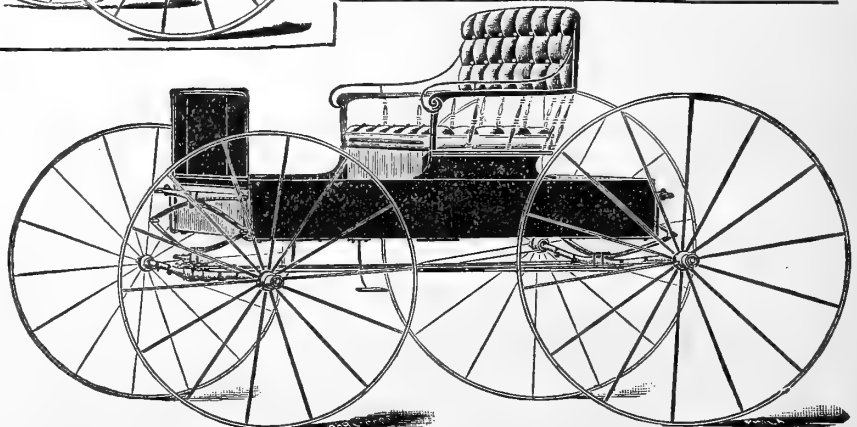
	List.	Retail.
Rubber Top.....	\$180.00	\$105.00
Leather Stay and Quarter....	190.00	112.00
Leather Top.....	210.00	122.00

No. 3 Driving Wagon

Wheels, extra selected hickory; Sarven patent or compressed band; 7/8-inch round edge steel tire, bolted at every spoke. Gear, double collar, fantail and swedged 36-inch 4-leaf graded steel springs. Body, ash sills and poplar panels; size, 24x54 inches; full-length steel body loops; wrought steps, with rubber pads. Seat, size of bottom, 17x28 inches; polished beveled edge back. Trimmings, leather dash; full-length tapestry carpet; cushion and back, whipcord or leather; leather extra. Painting, body black; gear Brewster green or carmine.

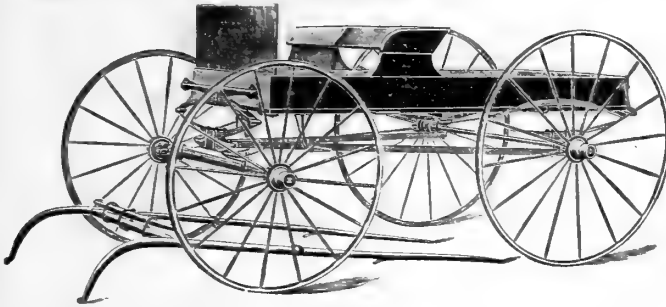
List

\$88.00
Retail
50.00



THREE SPRING DELIVERY WAGON

A splendid little wagon for light delivery or for hauling milk to station; also a handy baggage wagon.



Axle, 1 1/2 in.; 1 1/2 in. steel tire; body, 7 ft. long, 3 ft. wide, 9 in. deep. Drop end gate. Capacity, 1000 lbs. Price, without Top or Brake, List, \$80.00. Retail, \$47.50.

Axle, 1 in.; 1 in. steel tire; body, 6 ft. 6 in. long, 3 ft. wide, 9 in. deep. Drop end gate. Capacity, 600 to 800 lbs. Seat with cushion. Price, without Top or Brake, List, \$76.00. Retail, \$45.00. All wheels dipped in boiling oil.

Top extra for any of above. List, \$44.00. Retail, \$25.00. Brake extra for any above. List, \$5.00. Retail, \$3.00.

Duplex Spring Delivery Wagon

Similar to above, except it has a duplex spring gear.

Axle, 1 1/2 in.; 1 1/2 in. steel tire; body, 7 ft. long, 3 ft. wide, 9 in. high. Drop end gate. Capacity, 1000 lbs. Price, without Top or Brake, List, \$76.00. Retail, \$45.00.

Axle, 1 in.; 1 in. steel tire; body, 6 ft. 6 in. long, 3 ft. wide, 9 in. high. Drop end gate. Capacity, 600 to 800 lbs. One seat with cushion. Wheels dipped in boiling oil. Price, without Top or Brake, List, \$72.00. Retail, \$42.50.

Top extra for any of above. List, \$44.00. Retail, \$25.00. Brake extra for any above. List, \$5.00. Retail, \$3.00.

"Will-Kill-Flies"

Formerly known as

ROUGH-ON-FLIES

WILL KILL AND KEEP FLIES OFF CATTLE



If the fly, louse and other vermin which annoy horses, cattle and live stock generally are not successfully fought, they not only annoy the stock, but to a great extent destroy their usefulness.

We are well aware that crude petroleum, with a little oil of tar and creosote, has been compounded and placed upon the market under many different names, but it will not kill the louse, fly or insect; it may deaden or stun for a few minutes, that is all.

Will-Kill-Flies absolutely accomplishes what it is advertised to do. It kills the insect. For outward application it is entirely harmless for man and beast, but

is death to all vermin or insects having no lungs.

As a Deodorizer, "Will-Kill-Flies" is one of the best disinfectants and deodorizers known. One of the largest component parts of Will-Kill-Flies is used by the United States Government as a disinfectant. Put up in one gallon cans.

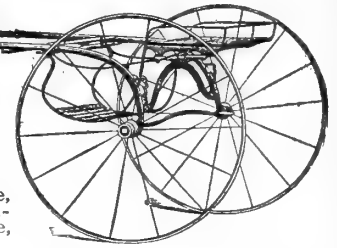
Price, per gallon.....\$1.50

COWS FAVORITE FLY KILLER

Of the same general character as the "Will-Kill-Flies," but not so strong. Price, 75c. per gallon.

FARMERS' Favorite Road Cart, No. 39

Sarven wheels, 1-in. axle, semi-elliptic springs; painted dark wine. List price, \$30.00. Retail, \$18.00.



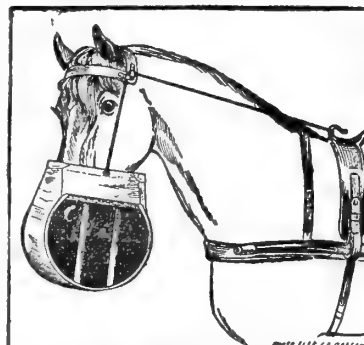
No. 45 BODY CART

Same style Cart as above, but with body. List price, \$40.00. Retail price, \$22.50.

Carriage and Wagon Whips

- No. 376—The Sirenia Whip. Black; two buttons. Far superior and tougher than whalebone or rawhide. The best dollar whip on the market. The cut represents this whip.....\$1.00
- No. 23—Royal. Black; waterproof finish; two buttons; loop snap.....15c.
- No. 286—Brunswick. Extra rawhide; black; 3 feet; rubber lined; rubber cap; two buttons; English silk snap; 6 feet.....75c.
- No. 246—Magic or De Soto. Rawhide; black; rubber cap; 2-inch ring head button and 2 1/2-inch ring thumb button; Philadelphia snap; 6 ft. 50c.
- No. 466—Java Cab. Linen color; oiled cover; plain through; 2 1/2-ft. drop top; 2 3/4-ft. stock....15c.
- No. 18—Black; plain; straight; Java; loop snap; 5 1/2 feet.....10c.
- No. 124—Eel Skin Rawhide, 6 feet. (A Whip to stand hard usage.).....25c.
- No. 282—Coach, 5-ft. handle, plaited lash.....30c.
- No. 1100—Holly handle, plaited, 5-ft. handle (extra fancy).....\$1.25

Williams' Feed Bag



Heavy duck, with woven-wire sides. It folds into a small space. The best wire-ventilated bag made. Our Special Price \$1.25.

MODOC FEED BAG.

Plain wood bottom, overhead rope, with patent pocket. Our Special Price, 25c.

PIONEER FEED BAG.

Patent pocket, bridle and pulley attachments. Patent center-grooved wood bottoms and leather ventilators. Our Special Price, \$1.00.

No. 9902 LOCKS

Special R. F. D. Lock No. 9902, with chain, 30c. Same lock, without chain, 25c.

LOCK DISPLAY CARDS.

A convenient and attractive method of offering these locks for sale. A card contains one dozen locks.

No.	Price of Card.	Price per Lock.
A...	\$1.20	12c.
C...	1.50	15c.
G...	2.00	20c.
S. J...	2.50	25c.



Griffith & Turner One-Horse Farm Wagons

We offer here the best line of One-Horse Farm Wagons on the market. They are substantially made and especially adapted for general use. They are finished excellently and give universal satisfaction to the trade.

SPECIAL ONE-HORSE WAGON

Either 1 1/4 Solid Steel Axle or 1 1/2 Tubular Axle; 1 1/4 x 5-16-in. Tires, 3 ft. 2-inch front wheels, 3 feet 8-inch rear wheels; body, 9 feet long; 9-inch bottom side, 4-inch top side, 3 feet 6-inches wide; capacity, 1000 to 1200 lbs.; weight, 550 lbs.

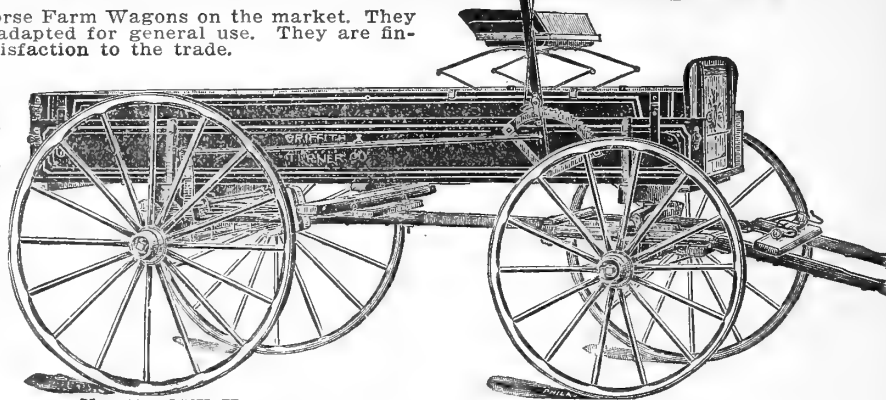
Special One-Horse Wagon, complete with Gear Brake. List, \$66.00. Retail, \$40.00.

Special One-Horse Wagon, without Brake. List, \$60.00. Retail, \$36.00.

Special One-Horse Wagon, Gear only with Brake. List, \$56.00. Retail, \$34.00.

Special One-Horse Wagon, Gear only, without Brake. List, \$50.00. Retail, \$30.00.

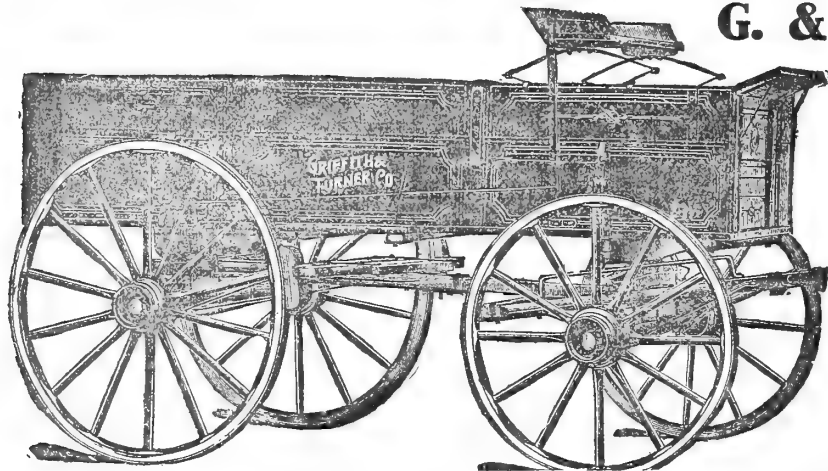
Special Discount for Cash.



No. 40—ONE-HORSE WAGON.

No. 40—Size Steel Axle, 1 1/4; size Tubular Axle, 1 1/2 x 6 1/2; size Tire, 1 1/4 x 5-16; capacity, 1500 to 1800 lbs.

Without Brake, List, \$71.00; Retail, \$42.50. With Gear Brake, List, \$77.00; Retail, \$46.50. Gear only, no Brake, List, \$63.00; Retail, \$38.00. Gear only, with Brake, List, \$69.00; Retail, \$41.50.



G. & T. Solid Steel and Tubular Steel Axle Two-Horse Wagons

These wagons are all heavily ironed and braced, and for use in rough and hilly country they are specially adapted, being exceptionally strong. The wheels are dipped in Boiling Oil, and the round-edge tire is used for the protection of felloes and paint. They are one of the lightest running Wagons made. There is an increasing demand in sandy countries for steel-axle wagons, and our trade in this style has grown immensely.

The prices include Whiffletrees, Wrench, Spring Chains, Tongue Chains, Box, Top Box, Spring Seat and Gear.

All Wagons will be arranged with Shafts for one-horse instead of Tongue when ordered at same price.

Nos.	Size of Steel Axle.		Size of Front Tires.	Height of Wheels.			Dimensions of Body.			Capacity	Wagon complete, no brakes.		Wagon complete, with brakes.		Gears only, with brakes.		Gears only, no brakes.					
	Size of Tub'l'r Axles.	Size of Tires.		ft. in.	ft. in.	ft. in.	ft. in.	ft. in.	in.		List.	Retail.	List.	Retail.	List.	Retail.	List.	Retail.				
42	1 1/2	1 3/8 x 8	1 3/8 x 7-16	3	6	4	0	9	6	3	6	12	6	2000	\$107.50	\$65.00	\$113.50	\$69.00	\$101.00	\$61.00	\$95.00	\$57.00
44	1 1/2	2 3/8 x 8	2 x 1/2	3	6	4	2	10	6	3	6	12	6	900	118.00	71.50	126.00	76.50	114.00	68.75	106.00	63.75
46	1 3/4	2 3/8 x 9	2 x 1/2	3	6	4	2	10	6	3	6	12	8	1000	126.00	76.00	134.50	81.00	120.00	72.00	112.00	67.00
48	2	2 3/8 x 10	2 x 1/2	3	6	4	2	10	6	3	6	14	8	1200	134.50	81.00	143.00	86.00	128.50	77.25	120.00	72.25
50	2 1/4	2 3/8 x 11	3 x 1/4	3	6	4	2	Running Gear.		1200	6000	170.50	102.00	181.00	108.50	162.00	97.00	152.00	91.50	91.50		
52	2 1/2	3 3/8 x 12	3 x 1/4	3	6	4	2	Running Gear.		8000	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

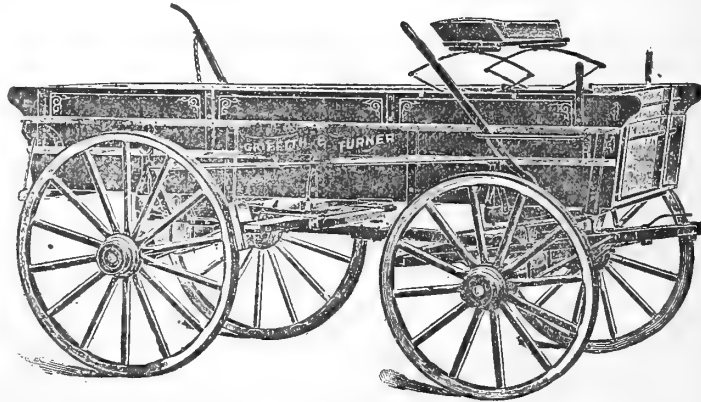
For tires wider than above on Nos. 42, 44 and 46, add List, \$9.00; Retail, \$5.00, per inch. On Nos. 48, 50 and 52, add List, \$11.00; Retail, \$6.00, per inch.

For tires thicker than regular, add \$4.50 List, \$2.75 Retail, for every 1/8 inch additional thickness on 3 inches wide and upwards. Less than 3 inches wide, add \$2.25 List, \$1.25 Retail, for every 1/8 inch additional thickness. Special Discount for Cash.

Griffith & Turner Steel Axle Wagon, with Home-Made Pattern Oak Body

We illustrate here our Griffith & Turner Wagon, with home-made pattern oak body. This is a substantially built frame body of oak and has drop end gate. We can supply our No. 42, No. 44, No. 46 or No. 48 Griffith & Turner Wagon with the home-made pattern body instead of the regular body. For any of these wagons with home-made pattern body, add to List Price, \$18.00, and Retail Price, \$10.50.

For low front wheel to turn under body, add to List Price \$8.00, and Retail Price \$5.00, same applies to regular wagon.

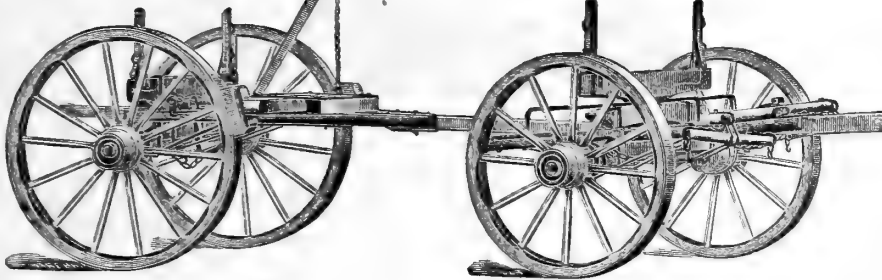


EXTRAS FOR G. & T. WAGONS.

	G. & T. One Horse.		No. 40.		No. 42.		No. 44.		No. 46.		No. 48.		No. 50.		No. 52	
	List.	Retail.	List.	Retail.	List.	Retail.	List.	Retail.	List.	Retail.	List.	Retail.	List.	Retail.	List.	Retail.
Bodies.....	\$18.00	\$10.50	\$20.00	\$11.50	\$21.00	\$12.00	\$23.00	\$13.50	\$25.00	\$15.00	\$28.00	\$16.00	\$35.00	\$20.00	.....	.....
Spring Seat.....	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	4.00	2.50	.....	.....
Tongues.....	9.00	5.50	9.00	5.50	9.00	5.50	9.00	5.50	9.00	5.50	9.00	5.50	9.00	5.50	.....	.....
Shafts.....	8.00	5.00	8.00	5.00	8.00	5.00	8.00	5.00	8.00	5.00	8.00	5.00	8.00	5.00	.....	.....
Wheels Reg. per set	26.50	16.50	32.00	20.00	47.50	30.00	53.00	33.00	58.50	36.00	64.00	40.00	69.50	43.00	\$75.00	\$46.50

G. & T. GEAR
For Heavy Hauling

Griffith & Turner Heavy Gears



We recommend this Gear to those having heavy hauling to do. It is supplied regularly with 4-inch tires. The table on the opposite page gives deductions that can be made for narrower tires.

PRICES OF GRIFFITH & TURNER HEAVY GEARS, with 4-inch tires and side lever brake:

No. 48—2-inch Steel Axles, capacity, 4000 to 4500 lbs. List, \$150.50. Retail, \$80.25.

No. 50—2 1/4-inch Steel Axles, capacity, 6000 lbs. List, \$173.00. Retail, \$103.00.

No. 52—2 1/2-inch Steel Axles, capacity, 8000 lbs. List, \$186.00. Retail, \$111.00. For additional specifications see the opposite page.

PETER SCHUTTLE WAGONS

PRICES ON SCHUTTLE GEARS.

3 1/4 Steel Skein Gear only, with 4x5/8 tires, truss axle and sand guards and 1 1/4 back-action side lever reversible brake.

List...\$119.25. Retail...\$102.75

3 1/2 Steel Skein Gear only, complete as above, except with 4x3/4 tire.

List...\$124.50. Retail...\$107.35.

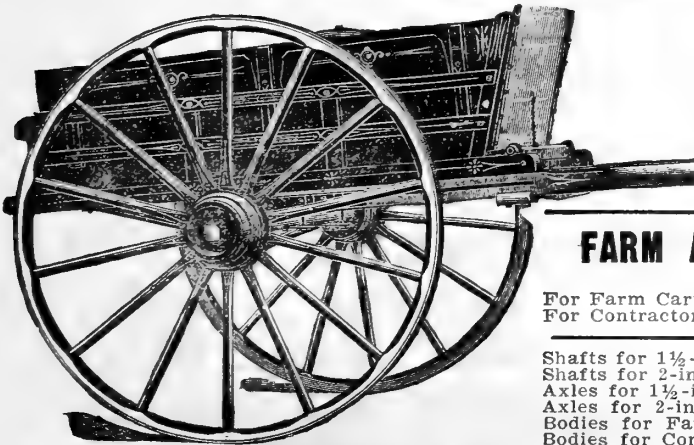
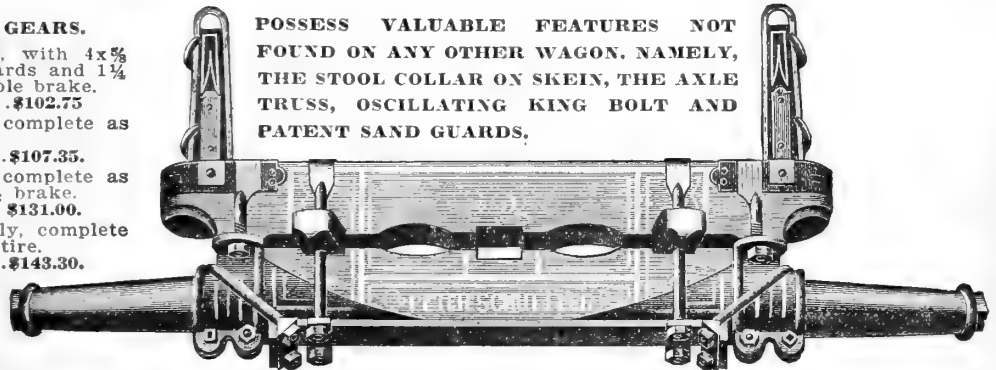
3 3/4 Steel Skein Gear only, complete as above, except 4x7/8 tire and 1 1/2 brake.

List...\$152.00. Retail...\$131.00.

4-inch Steel Skein Gear only, complete as above 3 3/4-inch, except 4x1 tire.

List...\$166.25. Retail...\$143.30.

POSSESS VALUABLE FEATURES NOT FOUND ON ANY OTHER WAGON, NAMELY, THE STOOL COLLAR ON SKEIN, THE AXLE TRUSS, OSCILLATING KING BOLT AND PATENT SAND GUARDS.



FARM AND CONTRACTORS' CART

With 5 and 6 inch Tires; also extra heavy Contractors' Carts made specially to order when wanted.

These Carts are very strong, heavily ironed, nicely painted, striped and varnished.

Size of Axle.	Size of Tires.	Diam. of Wheels.	Price.
1 1/2 inches.	3 inches.	4 ft. 10 in.	\$37.50
1 1/2 inches.	4 inches.	4 ft. 10 in.	41.50
2 inches.	3 inches.	4 ft. 10 in.	46.00
2 inches.	4 inches.	4 ft. 10 in.	50.00

Special Discount for Cash.

FARM AND CONTRACTORS' CART WHEELS

	Per Pair.	Per Pair.
For Farm Cart, 1 1/2-in. axle, 3-in. tire.....	\$22.50;	4-in. tire.....\$27.50
For Contractors' Cart, 2-in. axle, 4-in. tire...	30.00	3-in. tire..... 25.00

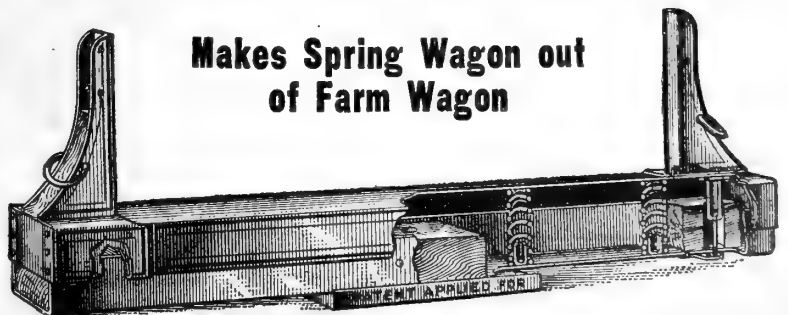
Shafts for 1 1/2-in. axle Farm Cart, no irons.....	\$6.00
Shafts for 2-in. axle Contractors' Cart, no irons.....	6.50
Axles for 1 1/2-in. axle Farm Cart.....	4.50
Axles for 2-in. Contractors' Cart.....	7.50
Bodies for Farm Cart.....	16.00
Bodies for Contractors' Cart.....	20.00

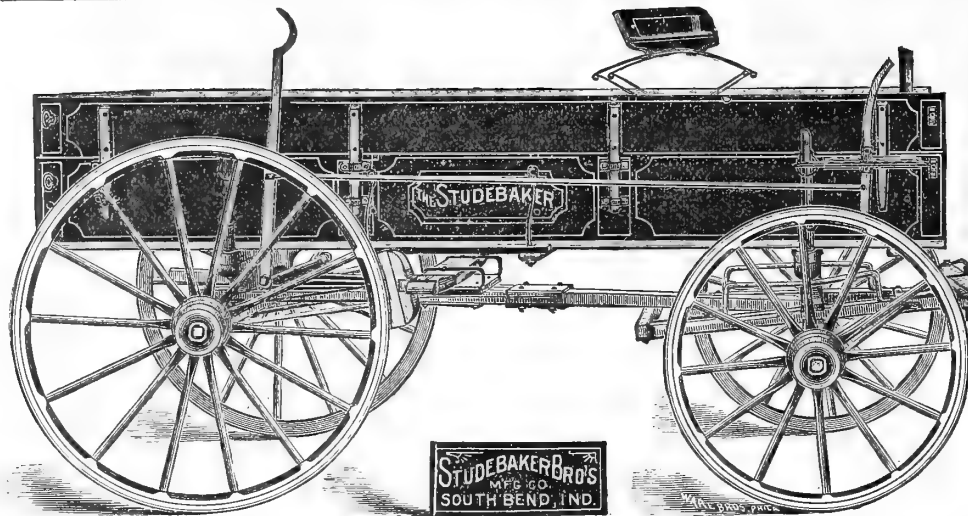
THE EVERLASTING PRESSED STEEL WAGON BOLSTER

It is a spring Wagon Bolster, not a bolster spring. Becomes a part of the wagon. Makes a spring wagon of an ordinary farm or truck wagon. Saves repairs on wagon. Is easier on horses and driver. Can be used with or without springs. Springs are removable and readily replaced. Can be used with or without wagon box. Does not raise wagon above ordinary height from road. Springs are arranged to work under variable loads. Bolsters are everlasting, being made of heavy pressed steel.

Special circular and prices on application. Our Griffith & Turner Wagons can be furnished with these spring Bolsters at a slight additional cost.

Makes Spring Wagon out of Farm Wagon





STUDEBAKER BROS.
MFG. CO.
SOUTH BEND, IND.

Studebaker

For Steel Skeins on No. 2 Wagons, add to List \$3.00, Retail, \$2.50.

For Steel Skeins on Nos. 3 and 4 Wagons, add to List \$3.75, Retail, \$3.25.

If WAGONS are wanted without brake, deduct from list on No. 2 \$8.50, from retail \$7.25. On Nos. 3 and 4 deduct from list \$9.00, from retail \$7.50. On No. 5 deduct from list \$10.50, from retail \$8.85. If GEARS

are wanted without brake, deduct for No. 2 from list \$6.50, from retail \$5.50. For Nos. 3 and 4 from list \$7.00, from retail, \$5.90. For No. 5 from list \$8.50, from retail \$7.25.

STANDARD THIMBLE SKEIN FARM WAGON

No.	Size of Skeins Inches	Height of Wheels				Size of Tire Inches	Dimensions of Box				Approximate		Wagon complete with brake		Gear only with brake	
		Front		Hind			Lower		Top		Weight Lbs.	Capacity Lbs.	List Price	Retail Price	List Price	Retail Price
		Ft.	In.	Ft.	In.		In.	In.	Ft.	In.						
2	2 3/4 x 8	3	8	4	4	1 1/2 x 9-16	12	8	10	0	850	2000	\$93.50	\$75.00	\$72.50	\$58.00
2	2 3/4 x 8	3	8	4	4	2 x 7-16	12	8	10	0	850	2000	97.00	78.00	76.00	61.00
2	2 3/4 x 8	3	8	4	4	2 1/2 x 7-16	12	8	10	0	850	2000	100.00	80.00	79.00	63.50
2	2 3/4 x 8	3	8	4	4	3 x 3 3/8	12	8	10	0	850	2000	101.50	81.50	80.50	64.50
3	3 x 9	3	8	4	6	1 1/2 x 9 3/8	13	8	10	6	1000	3500	100.00	80.00	77.00	61.75
3	3 x 9	3	8	4	6	2 x 1 1/2	13	8	10	6	1000	3500	103.00	82.50	80.00	64.00
3	3 x 9	3	8	4	6	2 1/2 x 1 1/2	13	8	10	6	1000	3500	107.00	86.00	84.00	67.50
3	3 x 9	3	8	4	6	3 x 1 1/2	13	8	10	6	1000	3500	110.00	88.00	87.00	69.75
4	3 1/4 x 10	3	8	4	6	1 1/2 x 3 3/4	14	10	10	6	1100	4000	103.00	82.50	79.00	63.50
4	3 1/4 x 10	3	8	4	6	2 x 3 3/8	14	10	10	6	1100	4000	106.50	85.50	82.50	66.00
4	3 1/4 x 10	3	8	4	6	2 1/2 x 1 1/2	14	10	10	6	1100	4000	110.00	88.00	86.00	69.00
4	3 1/4 x 10	3	8	4	6	3 x 1 1/2	14	10	10	6	1100	4000	113.00	90.50	89.00	71.50
5	3 1/2 x 11	3	8	4	6	1 5/8 x 3 3/4	16	12	10	6	1250	5000	113.50	91.00	87.50	70.00
5	3 1/2 x 11	3	8	4	6	3 x 9-16	16	12	10	6	1250	5000	123.50	99.00	97.50	78.00

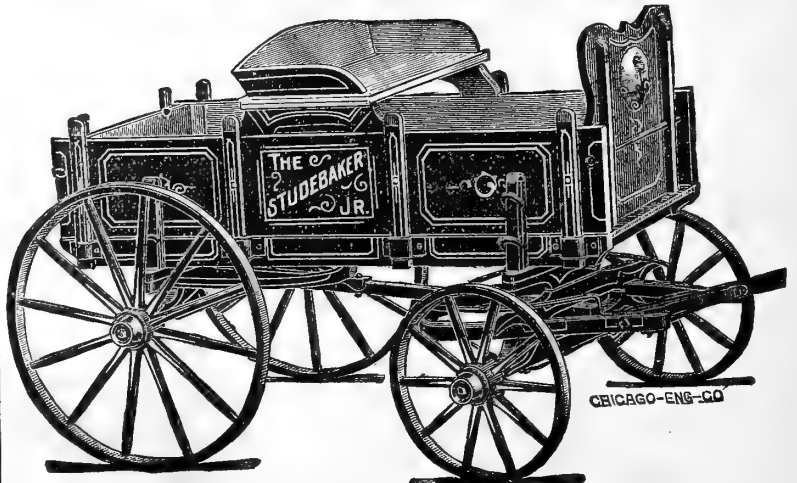
SPECIAL MARYLAND AND PENNSYLVANIA PATTERN LINCH PIN STEEL SKEIN GEARS WITH TRUSS RODS

No. 27—3 1/4-in. Steel Skein Gear, 3 ft. 8 in. between standards, 4x5/8 tire with Side Brake. List, \$118.50. Retail, \$95.00.
 No. 28—3 3/4-in. Steel Skein Gear, 3 ft. 8 in. between standards, 4x7/8 tire with Side Brake. List, \$136.50. Retail, \$110.00.
 No. 29—4-in. Steel Skein Gear, 3 ft. 8 in. between standards, 4x7/8 tire with Side Brake. List, \$179.50. Retail, \$140.00.

If Rear Ratchet Brakes are wanted on Md. and Penna. Gears, add to List Price \$9.00; to Retail \$7.20.

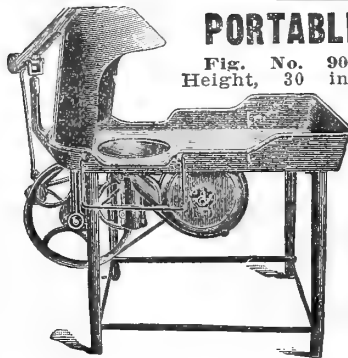
The Studebaker Junior is a substantially made miniature wagon, not a mere toy. It is one of the finest and strongest wagons of its kind in the market, and is built after the style of the regular Studebaker—oak frame, farm wagon gearing with bent hounds and adjustable reach, all parts strongly ironed and adjustable reach, staggered spokes, hub boxes and caps, oak shafts (or pole if desired), handsomely painted. Body is 17x36, wheels 12x18 inches. The Studebaker Junior is suitable for use by the child alone or with a good sized dog, sheep or goat in the shafts.

STUDEBAKER JUNIOR



CHICAGO-ENG.-CO.

Price, with Hand Tongue and Shafts, \$9.00. Goat Pole, extra, \$2.00.



PORTABLE FORGES

Fig. No. 907 (see cut).—
 Height, 30 inches. Size of hearth, 29 1/2 x 46 inches. Size fan, 15 inches.

No. 1 Complete, as in Cut.

Factory list price, \$50.00

Our special retail, \$22.50.

No. 1, Same, with Water Tank: List price, \$55.00.

Our special retail, \$25.00.

BROWN WAGON



Axles are made of dried selected hickory. Brown's Patent Extension Chilled Skeins. These Skeins support the axle where it has the greatest load to bear. Tongue Chains and Stay Chains fitted with springs. The Tongue Chains have a branch chain to prevent jerking and switching of the tongue and eases the draft on the horses' necks. Wheels all positively soaked in hot oil. Tires never get loose. Write for special circular fully describing these Wagons.

Coil springs are applied to tongue—eases draft on team's neck when chains are forced to control tongue or hold back. They supply the place of the vibrating neck yoke. Yield to pull of chain or branch chain, saving team from jerking of tongue. Branch chains are added to each tongue, practically destroying side jerking and whipping motion. Acts same as neck yoke.

No.	Size of Cast Skein.	Height of Front Wheels.	Height of Rear Wheels.	Size of Tire.	Depth of Box.	Capacity Pounds.	Wagon Complete with Brake.		Gear only with Brake.	
							List Price.	Retail Price.	List Price.	Retail Price.
00	2 3/4 x 8 1/2	3' 8"	4' 4"	1 1/2 x 1/2	22"	2500	\$91.15	\$75.75	\$69.00	\$57.50
00	2 3/4 x 8 1/2	3' 8"	4' 4"	2 1/2 x 1/2	22"	2500	98.30	81.75	76.15	63.50
1	3 x 9	3' 8"	4' 4"	1 1/2 x 3/8	24"	4000	94.15	78.50	72.00	60.00
1	3 x 9	3' 8"	4' 4"	3 x 3/8	24"	4000	105.40	87.75	83.25	69.25
1	3 x 9	3' 8"	4' 4"	4 x 3/8	24"	4000	113.05	94.50	91.50	76.25
2	3 3/4 x 10	3' 8"	4' 4"	1 1/2 x 3/8	26"	4500	97.15	80.75	75.00	62.25
2	3 3/4 x 10	3' 8"	4' 4"	3 x 3/8	26"	4500	108.40	90.00	86.25	73.75
2	3 3/4 x 10	3' 8"	4' 4"	4 x 3/8	26"	4500	116.65	97.00	94.50	78.75

All of above Complete Wagons have Seats and Gear Brakes.

Following special Gears have Linch Pin Steel Skeins, Gear Brakes, and the Nos. 3, 4 and 5 have Side and Back Action

Brakes with Round Coupling Poles.

2	3 3/4 x 10	3' 8"	4' 4"	4 x 5/8	...	4500	.....	.....	\$100.50	\$84.00
3	3 1/2 x 11	3' 8"	4' 4"	4 x 3/4	.....	5500	.....	.....	117.75	99.25
4	3 3/4 x 12	3' 8"	4' 4"	4 x 7/8	.....	6500	.....	.....	140.25	119.25
5	4 x 12	3' 8"	4' 4"	4 x 1	.....	7500	.....	.....	153.75	129.75

Following Solid Steel Axle Gears have Side Brake only.

No. 3—2" Solid Steel Axle Gear with 3x3/4" Tires, Side Brake	.....	\$100.50	\$85.00
No. 4—2 1/4" Solid Steel Axle Gear with 3x3/4" Tires, Side Brake	.....	117.75	100.00

Patent Steel Skeins

Revised Price List PATENT STEEL SKEINS.



Steel Skeins with boxes, per set.

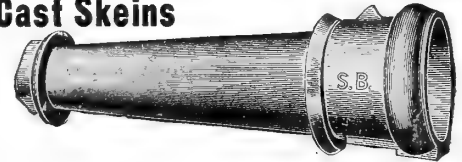
No.	Size.	With nuts.		Boxes only, per set.	
		Price List.	Price List.	Price List.	Price List.
1	2 3/4 x 7"	\$5.60	\$1.12		
1 1/4	2 1/4 x 7 1/2"	5.70	1.14		
1 1/2	2 1/2 x 7 1/2"	5.70	1.14		
2	2 1/2 x 8"	5.80	1.16		
3	2 3/4 x 8"	6.10	1.22		
4	2 3/4 x 8 1/2"	6.20	1.24		
5	2 3/4 x 9"	6.30	1.26		
6	3 x 9"	6.50	1.30		
7	3 x 10"	6.70	1.34		
8	3 1/4 x 9"	7.40	1.48		
9	3 1/4 x 10"	7.50	1.50		
10	3 1/2 x 10"	8.30	1.66		
11	3 1/2 x 11"	8.50	1.70		
12	3 1/2 x 12"	9.00	1.80		
13	3 3/4 x 11"	10.00	2.00		
14	3 3/4 x 12"	10.00	2.00		
15	4 x 12"	12.00	2.40		
16	4 1/4 x 12"	13.00	2.60		
17	4 1/2 x 13"	18.00	3.60		
18	5 x 14"	23.00	4.60		
		With Linch Pins, Price List.			
No.	Size.	Price List.	Price List.		
19	2 1/2 x 8"	\$5.80	\$1.16		
19 1/2	2 3/4 x 9"	6.30	1.26		
20	3 x 9"	6.50	1.30		
20 1/2	3 x 10"	6.70	1.34		
21	3 1/4 x 10"	7.50	1.50		
22	3 1/2 x 10"	8.30	1.66		
23	3 1/2 x 11"	8.50	1.70		
24	3 1/2 x 12"	9.00	1.80		
25	3 3/4 x 12"	10.00	2.00		
26	4 x 12"	12.00	2.40		
27	4 1/4 x 12"	13.00	2.60		
28	4 1/2 x 13"	18.00	3.60		

NOTE.—These Trade Skeins not to be confused with the patent and special truss skeins used on the Brown and Studebaker Wagons.

Made of the best grade of plate steel. Solid extension back of the collar keeps the wet and grease from working in on axle. Extension back of collar covers all tapering portions and more of the wood of the axle than any other skein.

S. B. Trade Cast Skeins

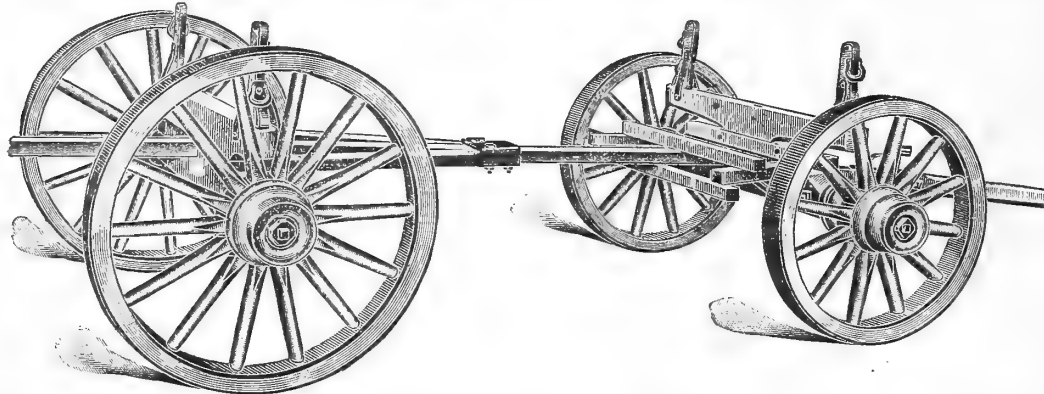
Standard Price List S. B. Trade Cast Skeins.



No.	Size.	Cast Skeins, with boxes		Boxes only	
		List, Per Set.	Retail, Per Set.	List, Per Set.	Retail, Per Set.
1	2 x 6"	\$3.25	\$2.00	\$1.08	\$.65
2	2 x 6 1/2"	3.25	2.00	1.08	.65
3	2 1/4 x 6 1/2"	3.50	2.10	1.17	.70
4	2 1/4 x 7"	3.75	2.25	1.25	.75
5	2 3/8 x 7"	4.00	2.40	1.34	.80
6	2 3/4 x 7 1/2"	4.00	2.40	1.34	.80
7	2 3/8 x 7 1/2"	4.00	2.40	1.34	.80
8	2 1/2 x 7 1/2"	4.50	2.70	1.50	.90
9	2 3/4 x 8"	4.75	2.85	1.58	.95
10	2 3/4 x 8"	5.25	3.15	1.75	1.05
11	2 3/4 x 8 1/2"	5.40	3.25	1.80	1.08
12	2 3/4 x 9"	6.00	3.60	2.00	1.20
13	3 x 9"	6.00	3.60	2.00	1.20
14	3 x 10"	6.50	3.90	2.17	1.30
15	3 1/4 x 9"	7.00	4.20	2.33	1.40
16	3 1/4 x 10"	7.50	4.50	2.50	1.50
17	3 3/4 x 11"	7.75	4.65	2.58	1.55
18	3 1/2 x 10"	8.00	4.80	2.67	1.60
19	3 1/2 x 11"	8.30	5.00	2.77	1.65
20	3 1/2 x 12"	8.80	5.25	2.94	1.75
21	3 3/4 x 11"	9.00	5.40	3.00	1.80
22	3 3/4 x 12"	9.40	5.65	3.14	1.90
22 1/2	4 x 11"	10.60	6.35	3.54	2.15
23	4 x 12"	10.60	6.35	3.54	2.15
24	4 1/4 x 12"	15.00	9.00	5.00	3.00
24 1/2	4 1/2 x 12"	18.00	10.80	6.00	3.60
24 3/4	4 3/4 x 12"	20.00	12.00	6.67	4.00
25	4 1/2 x 13"	20.00	12.00	6.67	4.00
25 1/2	5 x 12"	23.00	13.80	7.67	4.60
25 3/4	5 x 13"	23.00	13.80	7.67	4.60
26	5 x 14"	25.00	15.00	8.34	5.00
27	5 1/2 x 14"	30.00	18.00	10.00	6.00

All sizes, from 2 3/8 x 7 to 4 x 12, inclusive, are made with truss attachment, as shown in cut. These skeins are made of a better quality of iron than the ordinary trade cast skeins.

Our No. 34 Low Down Wood Wheel Farm Truck



This Truck has low down wood wheels 32 and 36 inches in height, with 4-inch tires. Furnished with hickory axles, 3 1/4 x 10 inch skeins, hardwood gear parts; both front and rear hounds, and has regular wagon standards, ironed and ringed. Truck nicely painted and striped. Capacity 4000 pounds.
 List Price....\$59.00
 Retail Price...\$36.00

OUR No. 31 FARM TRUCK

Very similar to our No. 34 Truck, the difference being that it is built without front hounds and the bolster standards are the style shown on the Steel Wheel Truck illustrated below.
 List Price....\$57.00
 Retail Price...\$35.00

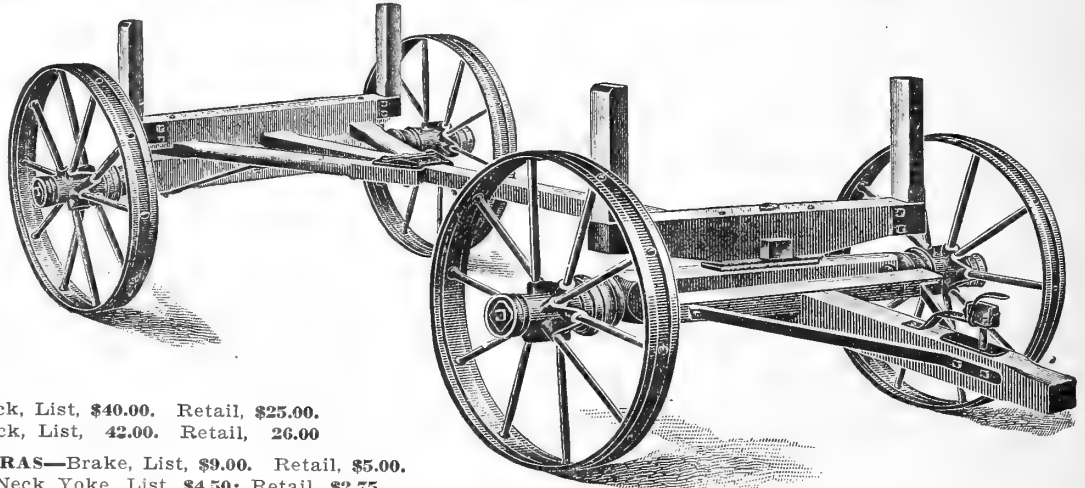
OUR HANDY STEEL WHEEL FARM TRUCKS

These are the best Trucks of their kind made. Built with wood hounds, well braced, regular farm skeins, hickory axles. All wood parts hardwood and well painted. Note the grooved tire, which protects the spokes of the wheel and the wheels last much longer than flat tire wheels. Made in two sizes. No. 22 with 3x9 skeins, capacity 3000 pounds. No. 24 with 3 1/4 x 10 skeins, capacity 4000 pounds.

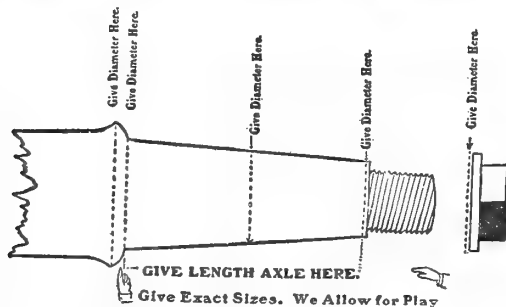
Both Nos. 22 and 24 Trucks have 28-inch front and 30-inch rear wheels, 4x 3/8 tires.

No. 22 Truck, List, \$40.00. Retail, \$25.00.
 No. 24 Truck, List, 42.00. Retail, 26.00

PRICES OF EXTRAS—Brake, List, \$9.00. Retail, \$5.00.
 Double Trees and Neck Yoke, List, \$4.50; Retail, \$2.75.



METAL TRUCK WHEELS



As nearly every set of steel wheels we sell has to be made especially to correspond with measurements of axles for which it is intended, we generally make shipment direct from factory.

PRICES PER WHEEL WITH 4x 3/8 TIRES.

24-inch—List Price,	\$6.00.	Retail,	\$3.75
26-inch—List Price,	6.30.	Retail,	4.00
28-inch—List Price,	6.60.	Retail,	4.25
30-inch—List Price,	7.20.	Retail,	4.50
32-inch—List Price,	7.80.	Retail,	4.75
34-inch—List Price,	8.40.	Retail,	5.00
36-inch—List Price,	8.75.	Retail,	5.25

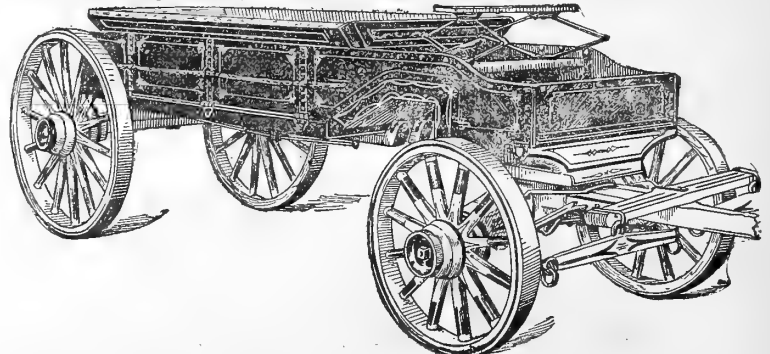
For 4x 1/2 Tire add to List 80c., and 50c. to Retail per wheel.
 Prices on other sizes quoted on application.

For use on regular farm wagons to convert them to low down wagons for special purposes. Also useful for mounting cutters, threshers, gasoline engines, etc. In ordering wheels, be sure to give exact measurements of axle, as indicated by diagram. If there is any difference between front and rear axles, send measurements of both.

ONE HORSE HANDY STEEL WHEEL WAGON

Electric Handy One-Horse Gear, 3000 lbs. capacity, 3-in. tires, List \$46.00; Retail, \$26.00.
 Electric Handy One-Horse Wagon, with body, no brake, List, \$70.00; Retail, \$37.50.

CONTRACTORS' BOTTOM DUMPING WAGONS



We offer a splendid line of Contractors' Dumping Wagons. Write for prices and special circular.

Snatch Rod regularly furnished with No. 2½ and No. 3.

Haslup Wheel Scrapers



Square steel axles are used, arched high, spindles turned and polished.

These scrapers are very popular with the contractor trade on account of their splendid construction and convenience. The wood wheels are made of thoroughly seasoned stock and are very strong. Metal wheels can be furnished on order. Tongues, best quality hardwood, heavily ironed, with double steel draft bars.

Size.	Capacity.	Size of Bowl.			Wheels.	Tire.	Axle.
		Long.	Wide.	Deep.			
No. 1	9 Cu. ft.	36"	36"	12"	36"	3x½"	1½"
No. 2	13 Cu. ft.	37"	38"	13½"	40"	3x5-16"	1¾"
No. 2½	14½ Cu. ft.	41"	38"	14"	44"	3x5-16"	1¾"
No. 3	17 Cu. ft.	41"	44"	16"	44"	3x5-16"	1¾"
No. 1	—Weight, 450 lbs.						Price, \$30.00
No. 2	—Weight, 600 lbs.						Price, 40.00
No. 2	—With Snatch Rod.						Price, 41.00
No. 2½	—Weight, 675 lbs.						Price, 42.50
No. 3	—Weight, 750 lbs.						Price, 45.00
Doubletrees and Neck Yoke							\$2.50 extra.

The No. 24 Iron Beam, Right Hand Contractors' Plow

Strong, heavy. Furnished with either cast or steel cutter shares; with draft iron running from clevis to beam. With wheel jointer or hanging coulter as desired. R. H. only.

Oliver's Latest Pattern, Road and Grading Plow, No. 24. IRON BEAM.

Price, Plain, \$16.00; with Wheel, \$17.00. Above prices include one extra Share.

Haslup Round Back, Solid Pressed Drag Scraper



PRICES WITH STEEL RUNNERS.

Size.	Capacity.	Weight.	Price.
No. 1	7 Cu. ft.	100 lbs.	\$5.75
No. 2	5 Cu. ft.	90 lbs.	5.50
No. 3	3½ Cu. ft.	80 lbs.	5.25

For extra Bottom Plate add 50c. The best Drag Scrapers made on account of construction, weight and quality of material.

REPAIRS FOR CONTRACTORS' PLOWS, Price List on Page 95.

Contractors' Tubular Steel Double and Singletrees and Neck Yokes. See page 139.

Syracuse Contractors' Plow No. 99

Four to Eight Horses. Weight, with Shoe, 310 lbs.

\$30.00.



This plow for a long time has been very popular for road work or any severe grading. Above cut shows plow with steel truss beam, steel mouldboard and landside. Separate shin piece. Heavy over-laid wrought steel share. Adjustable shoe in place of wheel. Loop handle wear irons. Very strong. Slight turning capacity. Suitable for severe grading purposes in shale or hard pan.

Baltimore Contractors' Plow

No. 0—Right or Left Hand; two-horse; weight, 180 lbs., without extra share, \$20.00.

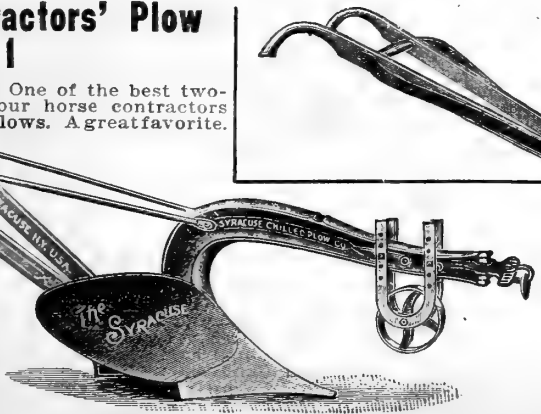
No. 2—Right or Left Hand; 4 to 6 horse; weight, 270 lbs., without extra share. \$30.00

No. 0—Right or Left Hand Point	4.00
No. 1—Right or Left Hand Point	4.50
No. 2—Right or Left Hand Point	4.50

Syracuse Contractors' Plow No. 1

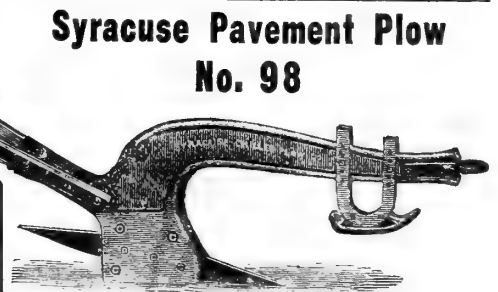
One of the best two-four horse contractors plows. A great favorite.

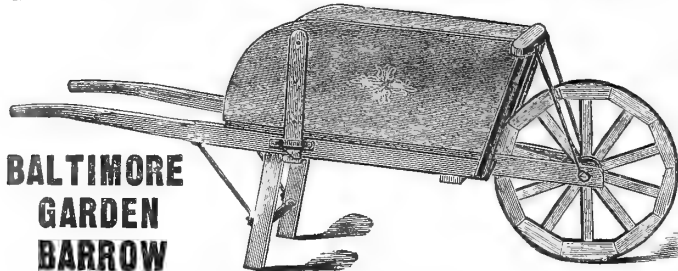
Hard iron wearing parts. Extra heavy beam, share and strip, steel wheel standard. Turn furrow 5 to 9 inches deep. 12 to 15 inches wide. For general grading purposes. Two to four horse. Weighs 185 lbs. with wheel. \$15.00.



Syracuse Pavement Plow No. 98

Adjustable and double-bar steel point. Adjustable shoe in place of wheel. Loop handle wear irons. Very strong. Specially adapted for tearing cobblestones and macadam pavements. Four or six horse. Weight, 265 lbs. Price, \$25.00.





BALTIMORE GARDEN BARROW

No. 1.—This Wheelbarrow is built of the best seasoned material. Frame built of hardwood. It is strong and roomy, and is adapted for the use of farmers. Painted red. Size of bin, 30 in. long, 24 in. wide in front, 25 in. in back. Side boards 12 in. high, 30 in. long. Handles 5½ ft. long, 2¾x1¼ in. Wheel, 21 in. diameter, 6 spokes; hub, 3 in. diameter in center, 2 in. diameter at ends.

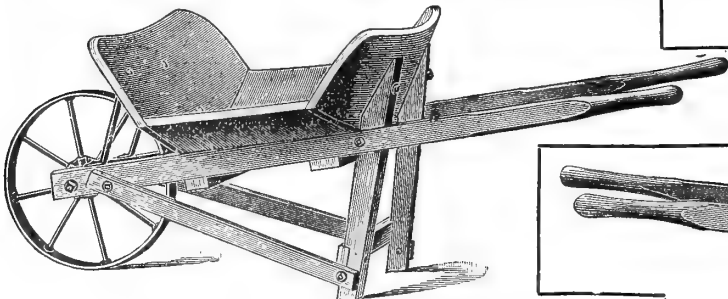
No. 1 Barrow, with 1½-in. tread. Weight, 60 lbs. Six crated in one package, 56½ cubic feet.

Price, with wood wheel.....\$4.50

Price, with steel wheel..... 5.00

THE BALTIMORE CANAL BARROWS

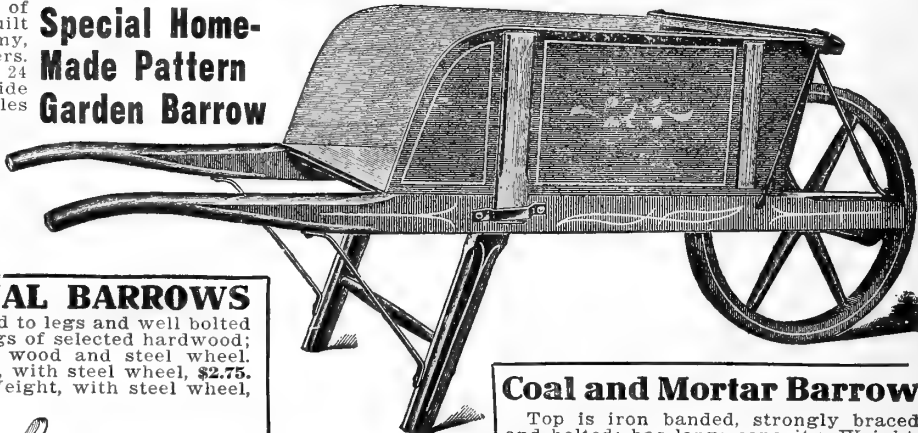
Full-sized tray, edges shaved, bolted to legs and well braced in front. Handles and legs of selected hardwood; wheels painted. Furnished in both wood and steel wheel. Price, with wood wheel, \$2.50. Price, with steel wheel, \$2.75. Weight, with wood wheel, 45 lbs. Weight, with steel wheel, 48 lbs.



THE PLAIN BOLTED CANAL BARROWS.

Ordinary size; bent tray; legs bolted to handles and well braced. Furnished with wood or steel wheel. Weight, with wood wheel, 40 lbs. Weight, with steel wheel, 45 lbs. Price, with wood wheel, \$2.25. Price, with steel wheel, \$2.50

Special Home-Made Pattern Garden Barrow



No. 4, MEDIUM SIZE OR MAN'S BARROW.
Inside measurement of box—Width at wheel, 19½ in.; depth, 11 in.; width at handles, 23¾ in. Length of handles, 48 in. Wheel, diameter, 18 in.; tire, 1½x3-16 in.; spokes, 1x1 in.; 8 spokes. Sides painted green, balance of barrow red, sides striped. Weight, 50 lbs. Price, \$3.50.

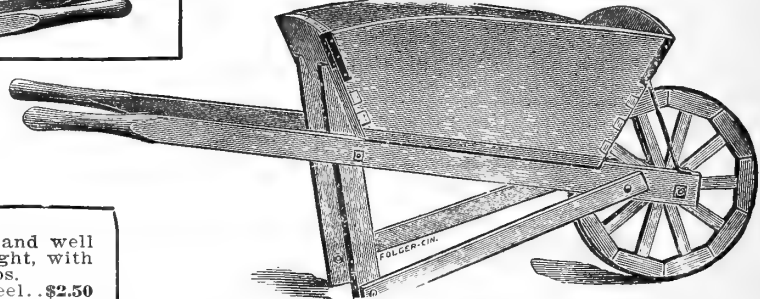
No. 5, LARGE SIZE OR MAN'S BARROW.
Inside measurement of box—Width at wheel, 21 in.; depth, 12 in.; width at handles, 23¾ in. Length of handles, 51 in. Wheel, diameter, 18 in.; tire, 1½x3-16 in.; spokes 1x 1¼ in. Weight, 60 lbs. Finished as above. Price, \$4.00.

These Barrows are made of seasoned wood, with Double Frames, firmly bolted together, iron braced and so constructed that by simply removing one bolt (the axle) and two nuts they can be folded flat down and shipped at lowest rate of freight. But a moment's time is required to set up for use.

Coal and Mortar Barrow

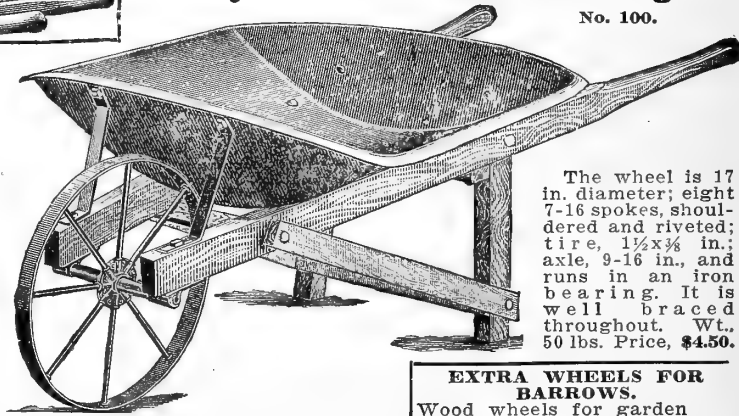
Top is iron banded, strongly braced and bolted; has large capacity. Weight, 60 lbs.

Price, with wood wheel.....\$3.50
Price, with steel wheel..... 3.75



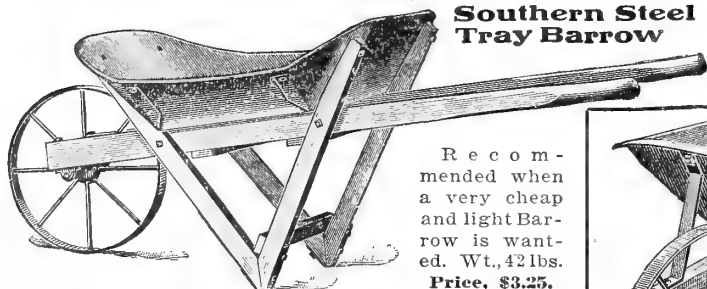
Wood Frame Solid Pressed Steel Tray Barrow with Steel Legs

No. 100.



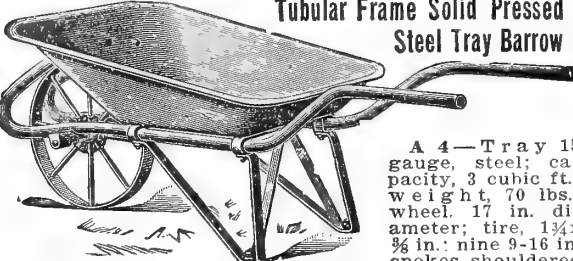
The wheel is 17 in. diameter; eight 7-16 spokes, shouldered and riveted; tire, 1½x¾ in.; axle, 9-16 in., and runs in an iron bearing. It is well braced throughout. Wt., 50 lbs. Price, \$4.50.

Southern Steel Tray Barrow



Recommended when a very cheap and light Barrow is wanted. Wt., 42 lbs. Price, \$3.25.

Tubular Frame Solid Pressed Steel Tray Barrow



A 4—Tray 15 gauge, steel; capacity, 3 cubic ft.; weight, 70 lbs.; wheel, 17 in. diameter; tire, 1¾x ¾ in.; nine 9-16 in. spokes, shouldered

and riveted; axle, ¾ in. For moving earth, ashes and light work. Price, \$5.00.

B 5—Tray, 14 gauge, steel; capacity, 5 cubic ft.; Weight, 85 lbs.; mounted on same frame and wheel as A 4. For general purposes and light running. It will stand hard usage. Price, \$5.75.

Special Discount for Cash.

EXTRA WHEELS FOR BARROWS.

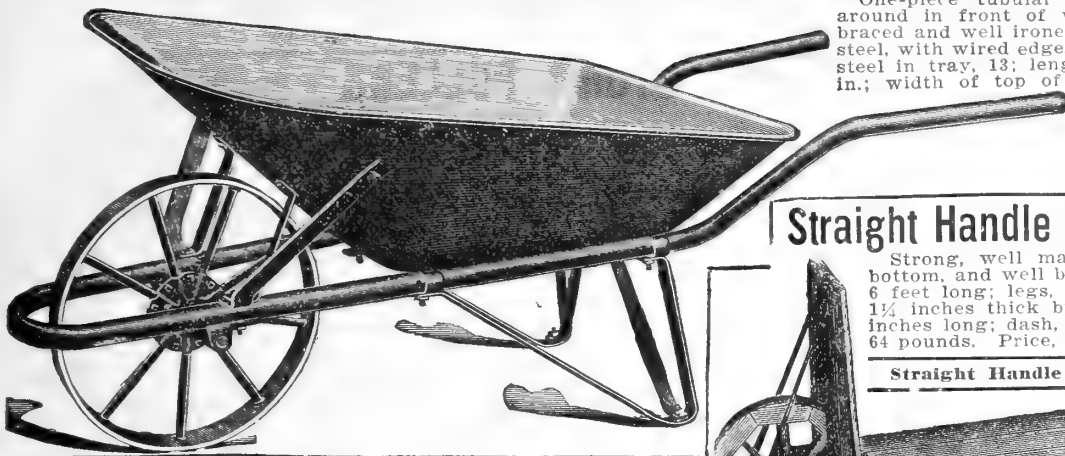
Wood wheels for garden barrows, each.....\$1.50

- Steel wheels for garden barrows, each..... 1.75
- Wood wheels for special home-made patterns, each..... 1.75
- Steel wheels for special home-made patterns, each..... 2.25
- Steel wheels for A4, B5 and style D barrows, each..... 1.25
- Wheels for No. 10, each..... 1.50
- Wood wheels for Canal barrows, each..... 1.00
- Steel Wheels for Canal barrows, each..... 1.25

PRICES OF EXTRA TRAYS.

- For style D and A4.....\$2.50
- For B5..... 3.00
- For No. 10 Coal and Coke..... 5.00

Solid PRESSED Steel Tray Coal and Coke Barrow, No. 10



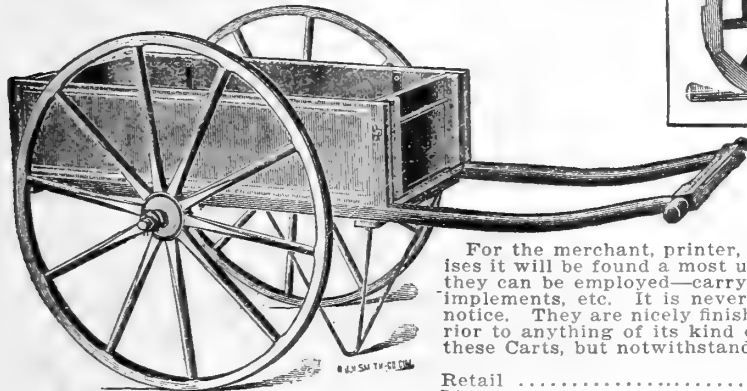
One-piece tubular steel frame extending around in front of wheel. Frame strongly braced and well ironed. Tray of best quality steel, with wired edge. Size No. 10—Gauge of steel in tray, 13; length of top of tray, 41½ in.; width of top of tray, 33 in.; depth of wheel, 12 in.; depth at handle, 6 in.; capacity, 6 cubic feet; weight, 110 lbs. Price, \$9.00. Steel Wheels, ea., \$1.50. Extra Trays, \$5.00.

Straight Handle Stone Barrow



Strong, well made, iron strapped over bottom, and well bolted together. Handles, 6 feet long; legs, 12 inches long; bottom, 1¼ inches thick by 23 inches wide by 27 inches long; dash, 10 inches high; weight, 64 pounds. Price, \$3.50.

Straight Handle Brick Barrow, \$5.50.



BALTIMORE PUSH CART

For the merchant, printer, farmer, etc., to have one of these Carts on his premises it will be found a most useful vehicle. There are so many purposes for which they can be employed—carrying bundles, printers' forms, farmers' tools and light implements, etc. It is never out of place, and always ready to pick up at short notice. They are nicely finished; higher wheels, better ironed and altogether superior to anything of its kind on the market. There is now an immense demand for these Carts, but notwithstanding we have placed the price low.

Retail	\$7.00	Extra wheels, each.....	Retail, \$3.00
List	12.50	List	5.00

BALTIMORE STORE TRUCK.

Retail Price.....\$2.00

NEW YORK PATTERN.

HALF STRAPPED.		FULL STRAPPED.	
List Price.	Retail Price.	List Price.	Retail Price.
No. 0...\$4.40	\$2.65	No. 0...\$5.15	\$3.10
No. 1... 4.90	2.75	No. 1... 5.75	3.25
No. 2... 6.10	3.70	No. 2... 7.10	4.25
No. 3... 8.00	4.80	No. 3... 9.00	5.40
No. 4...10.00	6.00	No. 4...11.00	6.60
No. 5...11.50	6.90	No. 5...13.50	8.10

NEW YORK PATTERN.—SIZES.

Length Handles.	Width Nose.	Width at Upper bar.	Diameter Wheels.	Weight
No. 1 4'0"	12½"	18"	8"	42 lbs.
No. 2 4'5"	14"	19½"	9½"	44 lbs.
No. 3 4'8"	15"	21"	9½"	72 lbs.
No. 4 5'0"	16"	22½"	11"	85 lbs.
No. 5 5'3"	17"	24"	11"	90 lbs.
No. 6 5'9"	20"	23½"	12"	125 lbs.



BALTIMORE STORE TRUCK.

COTTON TRUCKS.

No.	List.	Retail.
No. 3	\$9.00	\$5.40
No. 4	11.00	6.60
No. 5	13.50	8.10

No.	Length Handles.	Width Nose.	Width at Upper bar.	Diameter Wheels.	Weight.
No. 3	4'10"	15½"	21"	9½"	74 lbs.
No. 4	5'0"	16"	23"	11"	104 lbs.
No. 5	5'3"	18"	22"	10"	95 lbs.
No. 6	5'9"	20"	23½"	12"	125 lbs.

NEW YORK BARREL TRUCKS.

No.	List.	Retail.	No.	List.	Retail.
No. 1...\$7.00	\$4.25	No. 4...\$12.50	\$7.50		
No. 2... 9.00	5.40	No. 5... 15.00	9.00		
No. 3...10.50	6.30				



NEW YORK PATTERN.

Dimensions and Prices Cast-Iron Truck Wheels.

No.	Wght.	H'ght.	Face.	Hob.	Bore.	Ret'l price.
No. 0....	4½	6½	1½	2¼	¾x¾	\$.54 \$.35
Nos. 1 & 2	7¼	8"	2"	2¾	¾x¾	.87 .60
No. 3....	12¾	9½	2½	3¼	¾x1	1.52 1.00
Nos. 4 & 5	17½	11"	3"	3¾	1x1½	2.10 1.50
Heav....	25	12"	3"	3¾	1x1½	3.00 2.00

Improved Four-Wheel Platform Truck

For Canning House, Railroad Stations and Warehouse. Cheap, strong and well made.



No.	Size of Platform.	Diam. Wheels.	Diam. Caster.	Weight.	List.	Retail.
No. 1..	2x4 ft.	12 in.	6 in.	120 lbs.	\$25.00	\$17.50
No. 21..	3x5 ft.	18 in.	9 in.	200 lbs.	35.25	25.00



We are prepared to quote special prices on Trucks of every description. If you want anything special write us for prices.

No.	Size of Platform.	Weight.	Wheels.	List.	Retail.
82..	2 ft. 4 in. by 3 ft. 4 in.	100 lbs.	7½ in.	\$14.00	\$10.00
83..	2 ft. 6 in. by 3 ft. 6 in.	115 lbs.	7½ in.	15.00	10.75
84..	3 ft. by 4 ft.	125 lbs.	8½ in.	17.00	12.00

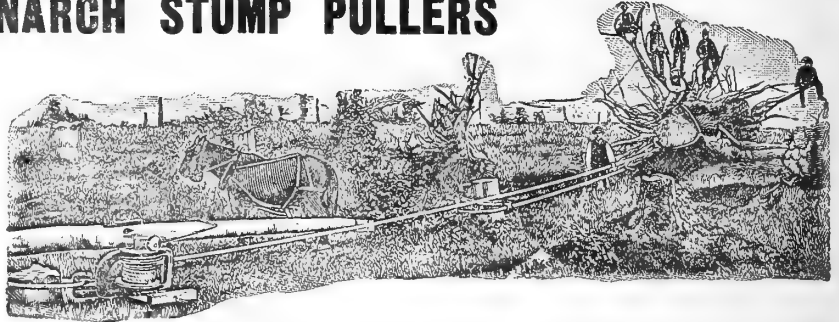
Can furnish Special Trucks at lowest prices; also Truck Wheels. Write for prices.

UNCLASSIFIED GOODS

OLD RELIABLE MONARCH STUMP PULLERS

These Stump Pullers are the strongest and most convenient of any on the market. Lack of space makes it impossible for us to give a detailed description of them, but no one can afford to buy a Stump Puller without investigating the merits of the Monarch Machine.

- No. 3—One-Horse Stump Puller, with 8 ft. anchor and 50 ft. pulling cable\$45.00
 - No. 4—Two-Horse Monarch Stump Puller, with 10 ft. anchor and 75 ft. pulling cable..... \$2.50
 - No. 5—Two-Horse Monarch Stump Puller, with 12 ft. anchor and 100 ft. pulling cable.....135.00
- Subject to 25 Per Cent. Discount F. O. B. Factory.



SPECIAL CATALOGUE ON APPLICATION.

Amatite Roofing

Amatite is even more than ready to lay; it is all but laid. It is heavily coated and mineral-surfaced at time of manufacture. After simply nailing in place on the roof, it needs no painting—in fact no care or attention of any kind for years. It is made of roofing materials that have been time-tried and tested in every climate and under all conditions.

No painting, no repairs, no tinkering; no care or attention of any kind for a long time. A fire retardant; requires no skilled mechanic to lay it. Rolls 32 inches wide; 110 square feet, sufficient to cover 100 square feet of roof, allowing 3-inch laps. Cement and nails packed with each roll. Price per roll, \$2.60; five rolls, \$9.50; ten rolls, \$18.00.



AMAZON ROOFING

Adapted to any style of roof and will withstand atmospheric influences in any climate. Coated on under side to protect against rising steam and other vapors, and on the upper side to make it weather-proof, fireproof and lasting. A very superior roofing. Write for samples and booklet giving full description.

Prices Per 100 Square Feet, Allowance Being Made For Two-Inch Lap, Nails, Tins and Cement Included:
 One ply, \$2.25; two ply, \$3.25; three ply, \$4.00.
 Special discounts on large quantities.

RED SEAL ROOFING PAPER

- 2-ply Red Seal Roofing, per roll of 108 square feet.....\$.75
- 3-ply Red Seal Roofing, per roll of 108 square feet..... 1.00
- D. & C. Asphalt Rubber Paint for Coating, in 1 and 2 gal. cans. (1 gal. covers 300 square feet of surface), per gal75
- D. & C. Coal Tar Pitch, in 70 lb. kegs, per keg..... 1.50
- Roofing Nails and Caps (about one pound each per roll), per pound06

BLACK LEAF TOBACCO EXTRACT
For Spraying Fruit Trees

Has also been extensively used as a dip for Sheep, Hogs and Cattle. As a spray for trees, exhaustive experiments have been conducted with highly satisfactory results. For the destruction of Woolly Aphis and Green Aphis on Apples, Black Peach Aphis and Green Peach Aphis. It has been found by experiment that the Tobacco decoctions are very much more effectual than the dry tobacco placed about the Crowns of the trees for Woolly Aphis, that effect the roots of trees. Apply about one gallon Black Leaf with 65 or 70 gallons of water. Can also be used in conjunction with Arsenate of Lead by adding one pound Lead to 20 gallons of the mixture. As a Sheep Dip: For first dip, use one gallon Black Leaf to 50 gallons water. As a second use, 1 to 70 of Black Leaf with 16 pounds Flowers Sulphur.

Prices: Quarts, 40c.; ½ gal., 65c.; 1 gal., \$1.25; 5 gals., \$5.00.

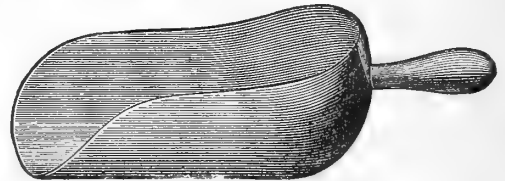
BUSH PULLER



A great labor saver. Do your grubbing with this tool. One man can do the work of five.

Price.....\$4.00

Cast Aluminum Scoops



MADE OF PURE ALUMINUM, CAST IN ONE PIECE, LIGHT AND CONVENIENT—ABSOLUTELY INDESTRUCTIBLE.

- No. 1—Size 4x11 inchesEach \$1.25
 - No. 2—Size 5x12 inchesEach 1.50
 - No. 3—Size 5½x14 inchesEach 1.75
- Per set.....\$4.50

CRESCENT GALVANIZED STEEL SCOOPS FOR SUGAR AND SALT.

Siemens steel, extra galvanized, non-corrosive. Hard maple heads and handles.

- No. 3—Capacity, 2½ lbs...25c.
- No. 5—Capacity, 4½ lbs...35c.
- No. 4—Capacity, 3½ lbs...30c.
- No. 6—Capacity, 5½ lbs...40c.

CORN BARRELS

- Without handles.....\$4.50
- With handles..... 5.00

GALVANIZED STEEL BASKETS

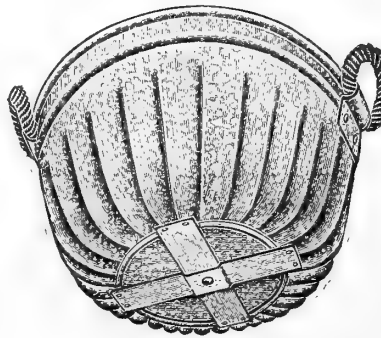
With Re-enforced or Double Steel Bottoms.

Bushel—A 101.....\$1.00

Utility Steel Baskets.
 Japanned, Dry Measure. With Bale and Side handles. Half Bushel, 45c. With Patented Clips and Drop Handles, Half Bushel, 45c. Bushel, 60c. 1½ Bushels, 75c.

Utility Steel Baskets Galvanized.
 With Bale or Side handles, ½ Bushel, 50c. 1 Bushel, 65c. 1½ Bushels, 90c.

Oak Baskets.
 One Bushel with Rim, 80c. 1½ Bushels, with Rim, 90c. 1½ Bushels, with Rim, \$1.00.



CEDAR AND OAK MEASURES.

- ½ pk., wire hoops.....\$0.35
- ¼ pk., 2nd qual., flat hoops..... .25
- ½ and ¼ pk. comb., wire hoops..... .45
- ½ and ¼ pk. comb., 2nd qual., flat hoops..... .30
- Peck and ½ pk. comb., wire hoops..... .50
- Peck and ½ pk., 2nd qual., flat hoops..... .40
- ½ bus., wire hoops..... .75
- ½ bus., 2nd qual., flat hoops..... .50
- ½ bus., oak, iron cross-bar..... 1.00

HANDY TRACE HOLDER

Made of Flexible Steel
Will Not Break

Better Than Leather
Will Not Wear Out

Send Us
Your Order
NOW



PER PAIR
10cts.

...JUST WHAT HAS BEEN NEEDED...

GRIFFITH & TURNER CO.

205-215 N. PACA ST.
BALTIMORE, MD.

 Refer to Page 140 in Catalogue.

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GRIFFITH & TURNER CO.

205-215 N. PACA ST.
BALTIMORE, MD.



Refer to Page 140 in Catalogue.

FERTILIZERS FOR THE FARM, LAWN and GARDEN.

The application of Fertilizers has been a topic much discussed among farmers generally. The quality and requirements of the soil are so varied, some lands being deficient in Potash, Phosphoric Acid, or some other chemical ingredient, that it is frequently very difficult for the farmer to determine just what mixture he needs. We give below a line of fertilizers best adapted to the various soils and crops-

Animal Bone Phosphate.

Made principally from Animal Bone, Potash and Ammoniates in proper proportion. A complete manure always gives good results. Specially adapted to the growth of Peas, Cabbage, Wheat and Grass—it contains all the ingredients necessary to supply what may be lacking in the soil for almost any crop.

Price, \$25.00 per ton.
" \$ 2.50 " Bag.

Ammoniated Alkaline Plant Food.

Our old stand-by for summer crops; is used largely on Potatoes, Corn, Tobacco and other summer crops, stands the hot, dry weather particularly well.

Price, \$22.50 per ton.
" \$ 2.00 " Bag.

Ammoniated Butchers' Bone Phosphate.

Is made largely from slaughter-house stock; used principally for Wheat and Grass, as well as by growers of Corn and Tomatoes for canning purposes; a good article at a low price.

Price, \$22.50 per ton.
" \$ 2.00 " Bag.

Soft Ground Bone.

Made from softer material than the regular "Ground Bone," and contains some little meat and blood. The great objection to the use of Pure Bone (the price) no longer prevents its use by anyone wanting to restore worn-out land. Try it and be convinced.

Price, \$28.00 per ton.
" \$ 2.50 " Bag.

Dissolved Bone.

Made from stock containing some meat, thoroughly dissolved, and in fine drilling condition.

ARSENATE OF LEAD

is better than Paris Green, Green Arsenoid, Arsenite of Lime or Arsenite of Soda for the following reasons:

1. It sticks after being sprayed, even heavy rains closely following the spraying do not wash it off.
2. It will not scald the buds, thus enabling its use at a sufficient strength to insure results.
3. It gives from one-third to one-half more benefit than all other forms of arsenicals.

The chief disadvantages of Paris Green, Green Arsenoid, Arsenite of Lime and Arsenite of Soda are that:

1. It cannot be used at sufficient strength to give good results on account of its caustic nature.
2. It is washed off by the first heavy rains compelling re-spraying.

DIRECTIONS for using ARSENATE OF LEAD :—On Apple and Pear trees use from 3 to 3½ lbs. to 50 gals. of water; on Peach, 2 lbs. to 50 gals. of water.

To prepare for use take the desired quantity of Arsenate of Lead and add enough water to make a thin paste, then add it to the volume of water, we suggest filling the spray barrel two-thirds full of water, then add the Arsenate of Lead first thinned with water, then fill the spray barrel. This will thoroughly mix the whole lot. For spraying Arsenate of Lead there should be an agitator on the pump in order to keep it in good suspension.

Spray Apple and Pear trees to prevent **CODLING MOTH** within ten days after the petals of the blossoms fall in order to lodge the poison in the calyx before it closes. Bordeaux Mixture can be combined with Arsenate of Lead at this time, although on apples that do not scab badly such as Ben Davis, York Imperial and Newtown Pippins, it may be better to omit the Bordeaux spraying at this time. On apples that do scab badly such as Winesaps, Smith Cider, Roman Beauty and Black Twigs, however, it would be better to combine the Bordeaux with the Arsenate of Lead. The Arsenate of Lead should be thinned with water as above, then added to the Bordeaux, in the same manner as where ordinary water is used.

For prices &c. see page 62 of Catalogue.

HARDWOOD ASHES, UNLEACHED.

Most excellent for lawn dressing or orchards. Apply late in the fall or early spring, in order that the rains may leach the ashes and carry the elements down to the roots of the trees or grass. These ashes are in proper condition for immediate use. Apply at rate of 1000 to 1500 pounds per acre.

Price, 100 pounds, \$1.50. Barrel, \$2.50. Ton, \$18.00.

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Farmers wishing a fertilizer for immediate action will find in this brand a reliable manure of good value, and one whose good effect can be seen for a long time.

Price, \$27.00 per ton.
" \$ 2.50 " Bag.

Soluble Bone Phosphate.

A good cheap Fertilizer. Quite a number of chemists claim that Ammonia adds very much to the cost of Fertilizers without being of much agricultural value; that is, sufficient Ammonia can be obtained from the atmosphere, etc., etc. Whether or not this theory is correct quite a number of people have used our Soluble Bone with very satisfactory results. To supply such a trade we offer the above.

Price \$17.00 per ton.
" \$ 1.80 " Bag.

Tobacco Bed Fertilizer.

This brand is specially well adapted for use on tobacco beds, containing 10 per cent. of Ammonia and a large percentage of Potash and Phosphoric Acid. A most excellent substitute for Peruvian Guano. In bags, 187 lbs.

\$4.00 per bag \$45.00 per ton.

Special Mixture.

A new brand introduced by us this year; a complete Fertilizer, containing Ammonia, Potash and available Phosphoric Acid in proper proportions.

Price \$18.00 per ton.
" \$ 1.65 " Bag.

Peruvian Guano.

10 per cent. goods. In bags of 187 pounds.

High Grade Acid Phosphate.

Kainit, Muriate of Potash.

Nitrate of Soda.

Fine Ground Fish.

Ground Tankage.

Prices on application.

Land Plaster

In bags 200 lbs. each.
\$1.00 per bag \$9.00 per ton

Pulverized Sheep Manure.

This is purely a natural and most nutritious plant food, clean to handle, and its effect is immediate and lasting. There is nothing better to mix with soil for potting plants. Florists who use it extensively advise mixing about one-seventh manure and six-sevenths soil. As a top dressing for lawns, it is unequalled.

5 lbs. 25c; 10 lbs. 40c; 30 lbs. \$1.00.
50 lbs. \$1.25 100 lbs. \$2.00.

Special prices in tons, ½ tons, or carload.

Bone Flour.

Made especially for Florists and Gardeners. This flour is passed through a 30-mesh screen and is consequently exceedingly fine, and in addition to this, it is the Pure Bone, containing no foreign matter at all. Write for sample.

Price \$4.00 per bag of 187 pounds.

Soft Ground Bone.

In packages,
5 lbs. 25c; 10 lbs. 40c;

BORDEAUX MIXTURE

FORMULÆ AND DIRECTIONS:

We recommend the following:

	For Apple and Pear Trees.	For Peach Trees.
Blue Stone (Copper Sulphate)	6 lbs.	4 lbs.
Lime	4 lbs.	4 lbs.
Water	50 gal.	50 gal.

Care should be taken that the Copper Sulphate is neutral.

Specify our "ORCHARD BRAND" BLUE STONE, it is guaranteed to be neutral.



Blue Stone in a muslin bag in the top of a bucket or tub of water and it will readily dissolve in a short time.) Only freshly slaked lime should be used, and the slaking should be brought about with small quantities of water added from time to time, so as to get an even slaking. The lime should be dissolved by itself in a vat or tub.

The solutions of Copper Sulphate and of Lime should be **diluted separately**, and then both should be run **simultaneously** into a third tank or tub. (See Cut.)

A very simple test to determine whether the Bordeaux is properly made or not is as follows: Insert a bright, clean penknife blade into the mixture, allowing it to remain for at least a minute. If metallic copper forms on the blade, or, in other words, if the polished surface of the steel assumes the color of copper plate, the mixture is unsafe, and more lime must be added. If, however, the blade of the knife remains unchanged, it is safe to conclude that the mixture is properly made.

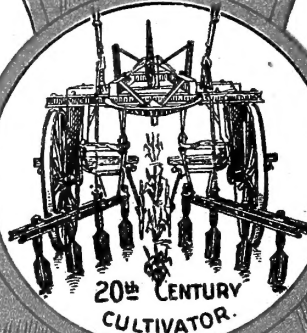
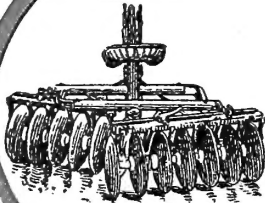
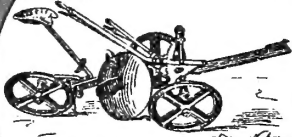
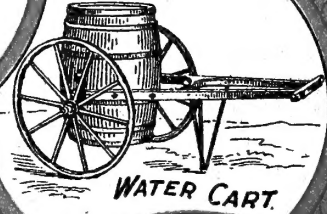
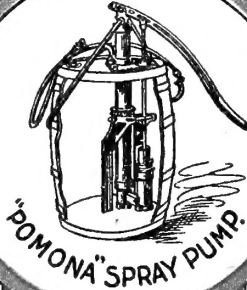
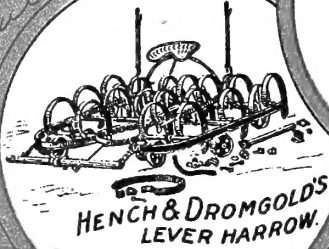
CAUTION.—Peach foliage is very delicate and great care must be exercised in using Bordeaux Mixture to prevent burning. In all spraying with Bordeaux Mixture care should be taken to select settled weather so far as possible,—dark cloudy weather closely following the spraying with Bordeaux is liable to produce some injury.

For prices &c., see page 62 of Catalogue.

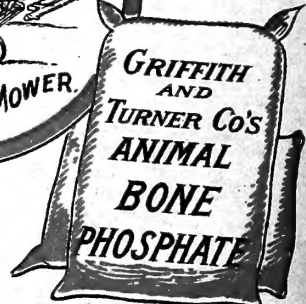
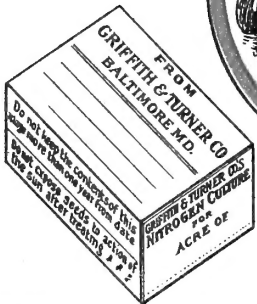
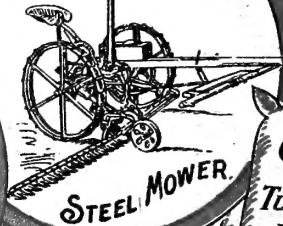
GRIFFITH & TURNER CO.

FARM AND GARDEN SUPPLIES

BALTIMORE.



WALTER A. WOOD



THE NEW METHOD OF FERTILIZING THE SOIL,
ONE OF THE GREATEST DISCOVERIES OF THE AGE.

KIL-O-SCALE

THE GREAT SAN-JOSE SCALE DESTROYER.