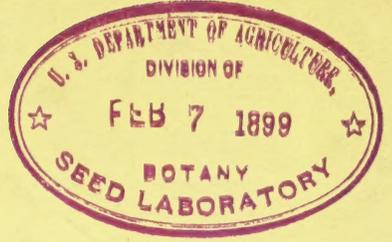


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FARM & GARDEN
SUPPLIES

GRIFFITH
AND
TURNER CO

1899

GENERAL OFFICES
205-207-209 & 213
N. PACA ST.

Branch 116 & 118 Light St

BALTIMORE

G. & T. CO.'S SUPERB COLLECTION

NOVELTIES

ONE 10c. TRIAL PACKAGE EACH OF THE FOLLOWING GRAND NOVELTIES SENT POST PAID FOR **25c.**

PAUL ROSE CANTALOUPE.

Decidedly the best of the salmon flesh varieties. Very attractive in appearance and a splendid shipper; tough rind; flesh very deep and of very fine melting flavor. Pkt. 10c. Oz. 20c. $\frac{1}{4}$ -lb. 60c. Lb. \$2.00.

G. & T. CO.'S WORLD'S FAIR TOMATO. **The Best Tomato for Cannery.**

Handsome, solid, luscious flavor, crimson color. Productive. Pkt. 10c. Oz. 20c. $\frac{1}{4}$ -lb. 50c. Lb. \$1.50.
See Page 33.

G. & T. CO. BOSS FLAT DUTCH CABBAGE

Our leading late cabbage; splendid large, solid, sure heads. Pkt. 10c. Oz. 20c. $\frac{1}{4}$ -lb. 50c. Lb. \$1.50.
See Page 10.

G. & T. CO. BALTO. CABBAGE LETTUCE.

Large solid cabbage heads, crisp and tender. Market gardener's favorite. Pkt. 10c. Oz. 20c. $\frac{1}{4}$ -lb. 50c. Lb. \$1.50.
See Page 19.

GRIFFITH & TURNER CO., BALTIMORE.

SEED TABLET.

THE QUANTITY OF SEED USUALLY SOWN TO AN ACRE.

| | | |
|---|--|---|
| Asparagus.....5 lbs. | Grass, Hungarian.....1 bush. | Potato, cut tubers, in drills, 8 bush. |
| Barley, broadcast.....2 to 3 bush. | Grass, Lawn.....3 to 4 bush. | Radish, in drills.....6 to 8 lbs. |
| Beans, dwarf, in drills..1 to 1½ bush. | Grass, Orchard.....28 lbs. | Radish, broadcast.....10 lbs. |
| Beans, pole, in hills.....8 to 10 qts. | Grass, Red Top.....28 lbs. | Rye, broadcast.....1 bush. |
| Beet, in drills.....4 to 6 qts. | Grass, R. I. Bent.....3 bush. | Salsify, in drills.....6 to 8 lbs. |
| Broom Corn, in hills.....4 to 6 qts. | Timothy.....¼ bush. | Sorghum.....10 to 12 lbs. |
| Buckwheat, broadcast.....¾ bush. | Kale.....4 to 6 lbs. | Spinach, in drills.....12 to 15 lbs. |
| Cabbage, in beds, to transplant, ¼ lb | Millet.....1 bush. | Squash, (bush varieties), in hills 4 to |
| Carrot, in drills.....2 to 3 lbs. | Melon, Musk.....1½ to 2 lbs. | 6 lbs. |
| Celery, to transplant.....½ lb. | Melon, Water.....2 to 3 lbs. | Squash, (running varieties), in hills, |
| Corn, in hills.....8 qts. | Mustard, broadcast.....12 to 16 qts. | 3 to 4 lbs. |
| Corn, for soiling.....2 to 3 bush. | Mangold, Wurzel.....4 to 6 lbs. | Turnip, in drills.....1 lb. |
| Clover, Alsike.....12 lbs. | Oats, broadcast.....2 to 2½ bush. | Turnip, broadcast.....2 to 3 lbs. |
| Clover, red, alone.....15 lbs. | Onions, in drills, to make large Oni- | Tomato, to transplant.....¼ lb. |
| Clover, white, alone.....12 lbs. | ons, 6 to 8 lbs. | Vetches, broadcast.....2 to 3 bush. |
| Clover, white, with other seeds, 4 lbs. | Onion Seeds, for small sets.....40 to 60 | Wheat, broadcast.....1½ to 2 bush. |
| Clover, Lucerne alone.....15 lbs. | lbs. | Wheat, in drills.....1 bush. |
| Clover, scarlet.....15 lbs. | Parsnip, in drills.....4 to 6 lbs. | Clover, { together } 8 lbs. Clov'r |
| Cucumber, in hills.....2 lbs. | Peas, Early, in drills.....1 bush. | Timothy, { for } -10 " Tim. |
| Flax, broadcast.....1 to 2 bush. | Peas, Marrowfat, in drills 1¼ bush. | Red Top, { one acre. } 14 " Rd.Top |
| Grass, blue, alone.....28 lbs. | Peas, broadcast.....2 to 3 bush. | |

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

| | | |
|--------------------------------------|---|------------------------------------|
| Asparagus.....1 oz. to 50 ft. drill. | Onion Sets, small 1 qt. to 100 ft. drill. | Leek.....1 oz. to 100 ft. drill. |
| Beet.....1 oz. to 50 ft. " | Parsley.....1 oz. to 150 ft. " | Pole Beans.....1 qt. to 150 hills. |
| Celery.....1 oz. to 100 ft. " | Parsnip.....3 oz. to 100 ft. " | Corn.....1 qt. to 200 " |
| Carrot.....1 oz. to 100 ft. " | Radish.....2 oz. to 100 ft. " | Cucumber.....1 oz. to 50 " |
| Endive.....1 oz. to 150 ft. " | Salsify.....1 oz. to 70 ft. " | Watermelon.....1 oz. to 30 " |
| Egg Plant.....1 oz. to 300 ft. " | Spinach.....2 oz. to 100 ft. " | Muskmelon.....1 oz. to 60 " |
| Lettuce.....1 oz. to 150 ft. " | Turnip.....1 oz. to 150 ft. " | Pumpkin.....1 oz. to 40 " |
| Okra.....4 oz. to 100 ft. " | Peas.....1 qt. to 100 ft. " | Early Squash.....1 oz. to 50 " |
| Onion.....1 oz. to 100 ft. " | Dwarf Beans.....1 qt. to 100 ft. " | Narrow Squash.....1 oz. to 16 " |

| | |
|---|--------------|
| 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 plants. |
| Pepper—1 oz. of seed will produce..... | 1000 " |
| Tomato—1 oz. of seed will produce..... | 1500 " |

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 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.

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.

We also place Seeds with reliable merchants on consignment, allowing commission on all papers sold.

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.

PREMIUMS.

To every purchaser of Seeds in Packets. The purchaser may select **Twenty-five Cents worth extra** for each **One Dollar** sent us. Thus, any one sending

us \$1.00 can select Seeds in Packets amounting to \$1.25; for \$2.00, Seeds in Packets to the value of \$2.50, and so on.

GRIFFITH & TURNER CO., BALTIMORE.

Griffith & Turner Co.'s Catalogue of Farm and Garden Supplies.

TO OUR PATRONS.



THE present edition of our Catalogue will represent, in part, the business which was started in a very modest way by Jno. M. Griffith 39 years ago, and will also be our closing edition for the nineteenth century. The business is so changed that one would scarcely recognize it as that conducted by the founder of this institution in the sixties; at that time the trade of the house was confined to the few counties around Baltimore, while today we are working a number of the States by travelling men, and our mail order business reaches nearly every State in the South and West. Our trade for 1898 shows a substantial increase over the year previous, which has made it necessary for us to arrange for additional warehouse room, so that today we probably have the most complete line of Agricultural Supplies to be found anywhere in the country.

It will pay any Farmer or Gardener to correspond with us before making his purchases for the coming year.

GRIFFITH & TURNER CO.

PRICES TO MARKET GARDENERS

Market Gardeners and all other purchasers of Seeds, in large quantities, should send for our Special 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.



All 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 8 cents per pound. On Beans, Peas and Corn 8 cents per pint or 15 cents per quart should be added to the Catalogue Price to pay the postage.

Orders from unknown Correspondents must be accompanied with the Cash.

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 half 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.

JOHN M. GRIFFITH, President.
M. S. GRIFFITH, Vice-President.
JOHN L. TURNER, Treasurer.
GEORGE W. HOBBS, Secretary.

Quality of Seeds. We do not sell the cheapest seeds, but make **LOWEST PRICES** consistent with quality. They will please you.

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.

Notice. The greatest care is taken to supply every article true to name and of the very best quality; at the same time it is mutually understood that we do not warrant our seeds, and that we are not in any respect responsible for any loss or damage arising from any failure thereof.

GRIFFITH & TURNER CO.

Branch House, 116 & 118 Light St,

205, 207, 209, 213 N. Paca St., BALTIMORE, MD.

Cable Address, "Griffturn, Baltimore."

GRIFFITH & TURNER CO'S

TESTED AND TRUE

VEGETABLE SEEDS

MONEY FOR YOU

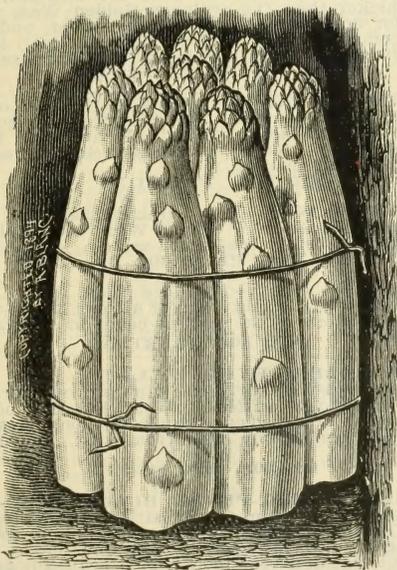
PREMIUMS to every purchaser of seeds in Packets. The purchaser may select Sixty Cents worth of seeds for Fifty Cents, and any one sending us \$1.00 can select seeds in packets amounting to \$1.25; for \$2.00, seeds in packets to the value of \$2.50.

ARTICHOKES.

The part eaten is the flower head, which is used before it begins to open, and cooked in much the same way as asparagus.

LARGE GREEN GLOBE—Pkt. 10c. Oz. 30c.
JERUSALEM—Peck \$1.00. Bush. \$3.00.

MAMMOTH WHITE ASPARAGUS.



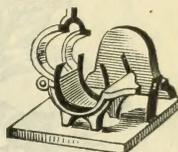
In addition to the marvelous advantage of its white color, the Columbian Mammoth White Asparagus is even more robust and vigorous in habit and throws larger shoots, and fully as many of them, as the Conover's Colossal. When we add to these the immense advantage of its needing no earthing up in order 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. 1-4 lb. 20c. Lb. 60c.

BEST ASPARAGUS BUNCHER.—\$1.50.

ASPARAGUS KNIVES.
 25c. By mail, 35c.



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 in 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.

BARR'S MAMMOTH.—A new variety, highly recommended for its many good qualities. It is very productive, and about ten 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 and are light in color.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.

NEW PALMETTO ASPARAGUS.—This new 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 fifteen shoots will measure thirteen to fourteen inches in circumference. For several seasons this Asparagus has reached Northern markets ten days ahead of all other varieties, and sold at fabulous prices.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.

CONOVER'S COLOSSAL.—The old and well-known variety.

Pkts. 5 and 10c. 1-4 lb. 10c. Lb. 30c.

ASPARAGUS ROOTS.

BARR'S MAMMOTH.—Per 100, 70c. Per 1000, \$4.00.

PALMETTO.—Per 100, 60c. Per 1000, \$3.50.

COLOSSAL.—Per 100, 60c. Per 1000, \$3.50.

MAMMOTH WHITE.—Per 100, 75c. Per 1000, \$5.00.

A saving of one to two years is effected by planting roots. A bed 12 by 40 feet, requiring about 100 roots, should give a sufficient supply for an ordinary family. 7,260 roots will plant an acre.

SPECIAL PRICES TO GARDENERS AND FARMERS, IN LARGE QUANTITIES.

NOTICE.—Owing to the short crop of Beans, prices are subject to advance without notice.

DWARF BEANS.

One quart will plant 100 feet of drill.
Add 8c. per pint, or 15c. per quart, on all Beans if to be sent by mail.

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

GREEN PODDED SORTS.

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 thirty days from germination, and the habit of vine very productive.
Qt. 30c. Pk. \$1.75.

TRIUMPH OF THE FRAME.—This variety is particularly adapted for forcing. Very dwarf, prolific and tender.
Pt. 25c. Qt. 50c.



(Earliest Red Valentine.)

EARLIEST 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.
Qt. 30c. Pk. \$1.75.

LONG YELLOW SIX WEEKS.—Very early, hardy bean.
Qt. 30c. Pk. \$1.50.

WHITE VALENTINE.—Similar to the Red, except the color of the seed is white; very desirable both for private and market gardeners.
Qt. 30c. Pk. \$1.75.

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. The Extra Early Refugee is rapidly becoming the favorite sort with Southern truckers and planters, as it matures equally early with the Red Valentine, and has that beautiful silvery green color in the pods that is so much desired.
Qt. 30c. Pk. \$1.25. Bu. \$4.00.

EARLY REFUGEE or BROWN VALENTINE.—
Qt. 30c. Pk. \$1.00. Bu. \$3.50.

EARLY MOHAWK.—Qt. 30c. Pk. \$1.50.

DWARF HORTICULTURAL.—A very fine 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. \$1.75.

BEST OF ALL.—One of the most valuable green podded sorts for family or market use. The pods are six inches long, very fleshy, succulent, stringless, and of rich flavor; they are produced early and abundantly.
Qt. 30c. Pk. \$1.75.

EMPEROR WILLIAM.—An extra early white variety of good quality.
Pkt. 15c. Qt. 30c. Pk. \$1.75.

WHITE MARROWFAT.—Extensively grown for sale as a dry bean for winter use.
Qt. 20c. Pk. 75c. Bu. \$2.50.

WHITE NAVY.—A well-known variety for field culture, very prolific.
Qt. 15c. Pk. 60c. Bu. \$2.25.

WHITE KIDNEY.—Qt. 20c. Pk. 75c.

DWARF WAX PODDED.

DWARF PROLIFIC BLACK WAX.—Yellow pod; a very superior snap short, ripening among the first earlies, and having the best characteristics. Very tender.
Pt. 15c. Qt. 30c. Pk. \$1.50.

DAVIS' KIDNEY WHITE WAX.—White pods; among the second early varieties.
Qt. 30c. Pk. \$1.75.

IMPROVED RUST-PROOF 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 rust-proof, and sure to become the favorite Wax Bean; in fact, it has already gained great popularity with growers.
Qt. 30c. Pk. \$1.10. Bu. \$3.50.

KIDNEY WAX.—This is one of the best of the 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.
Qt. 30c. Pk. \$1.75.

DETROIT WAX.—Pods straight, flat, but thick to edge; broader than Golden Wax; beautiful wax color and as nearly rust-proof as any.
Qt. 30c. Pk. \$1.00. Bu. \$3.50.

REFUGEE WAX.—Produces thick, fleshy, wax-like pods, of fine quality and of a clear, waxy-white color. It is one of the earliest beans in cultivation.
Qt. 30c. Pk. \$1.75.

NEW GOLDEN-EYED WAX.—This fine new Bush Bean is very early; the vine grows vigorously about one and a half feet high, holding the pods off the ground. The pods are handsome, long, straight, and flat, remarkably free from rust, and keeps well.
Qt. 30c. Pk. \$1.50.

CURRIE'S RUST-PROOF 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 golden color; quality not surpassed, and for productiveness unequalled.
Qt. 30c. Pk. \$1.75.

KEENEY'S RUSTLESS GOLDEN WAX (New.) A strong-growing bush variety of remarkable vigor and freedom from rust. It sends out short tendrils, on which pods are formed in addition to those near the central stalk of the plant, which accounts for its wonderful productiveness.

The pods are meaty and well filled; thick-flat when young, and semi-round later; of rich yellow color and fine quality; and entirely stringless throughout, even when old enough to shell.
Pt. 15c. Qt. 30c.

BEANS

CONTINUED.

POLE OR RUNNING.

Set the poles three or four feet apart, and plant six to eight beans, with the eyes downward, around each pole, thinning to four 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.

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. \$1.50. Bu. \$5.00.

SPECKLED HORTICULTURAL, or WREN'S EGG.—Very productive; used with or without pods.

Qt. 30c. Pk. \$1.75. Bu. \$6.00.

WHITE CHERRY.—Great favorite; used with or without pods.

Pt. 15c. Qt. 25c. Pk. \$1.75. Bu. \$5.50.

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; retains its exquisite flavor until nearly ripe.

Pt. 15c. Qt. 25c. Pk. \$1.50. Bu. \$5.50.

CREASE-BACK OR FAT HORSE.—A well-known and highly esteemed Southern variety. Very productive. Forms very full, round pods, very fleshy, entirely stringless and distinctly creased along the back; hence its name. This variety is especially valuable for its extreme earliness and its habit of perfecting all of its pods at the same time.

Qt. 30c. Pk. \$1.50 Bu. \$5.50.

DUTCH CASE KNIFE.—Vines moderately vigorous, climbing well, but not twining so tightly as some, and so may be used for a corn hill bean. Leaves large, crumpled; blossoms white; pods very long, flat, irregular, green, but becoming cream white; beans broad, kidney shaped, flat, clear white, and of excellent quality, green or dry.

Pt. 15c. Qt. 30c. Pk. \$1.50.

SOUTHERN PROLIFIC.—A splendid, vigorous and productive variety. Pods in clusters, succulent and delicious; matures quite early and continuous bearing until frost.

Qt. 20c. Pk. \$1.00. Bu. \$3.50.

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.

Pt. 15c. Qt. 25c. Pk. \$1.50. Bu. \$5.25.

LIMA BEANS.

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.

Qt. 30c. Pk. \$1.50. Bu. \$5.50.

DREER'S IMPROVED, or CHALLENGE POLE LIMA.—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.

Qt. 30c. Pk. \$1.75. Bu. \$6.00.

EXTRA LARGE 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. The Beans are very large, tender, and of delicious flavor.

Qt. 30c. Pk. \$1.75. Bu. \$6.00.

LARGE WHITE LIMA.—One of the best of the pole beans, either green or dry.

Qt. 25c. postpaid. Pk. \$1.50. Bu. \$4.75.

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 five to seven inches long in clusters of four and five, with five to six beans in a pod.

Pt. 15c. Qt. 30c. Pk. \$1.50. Bu. \$5.50.

BUSH LIMA BEANS.

The Bush Lima Beans are rapidly gaining friends and have evidently come to stay.

DREER'S BUSH LIMA.—A dwarf variety of the Dreer's Improved Lima, which has been fixed in its character of a bush bean; it is very prolific, single plants often producing from 150 to 200 pods. Equal in quality and tenderness to Dreer's Pole Lima.

Pt. 15c. Qt. 30c. Pk. \$1.75.

HENDERSON'S DWARF LIMA.—These are 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.

Qt. 25c. Pk. \$1.25.



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WATLEE BURPEE & CO.

BURPEE'S BUSH LIMA.

The 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, from two feet to three feet in diameter. The bush character is thoroughly established, not one plant in a thousand showing any disposition "to run." It is an immense yielder, each bush bearing from 50 to 200 of the handsome large pods, well filled with very large beans, which are identical in size and luscious flavor to the well-known large pole Limas. By the introduction of this most valuable novelty, the largest and best Lima Beans can now be raised in quantity at small cost, without the expense and labor attached to the use of poles.

Pt. 15c. Qt. 30c. By mail, 15c. per qt. extra.
Pk. \$1.60. Bu. \$5.75.

BROAD WINDSOR.

Matures in fifty days after germination. Should be planted very early. Qt. 25c. Pk. \$1.50.

SPECIAL PRICES TO GARDENERS AND FARMERS, IN LARGE QUANTITIES.

BEET

(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, fourteen to sixteen inches apart, and cover one inch deep. When the young plants appear, thin to four or five 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 variety—the long varieties requiring more time to mature than the round, early kinds.



EARLY BLOOD TURNIP BEET.

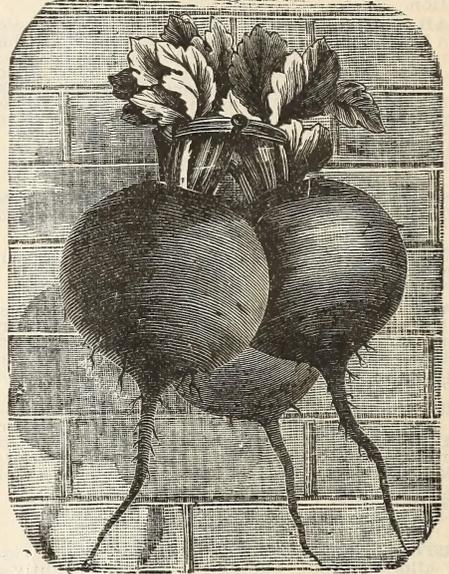
G. & T. CO.'S EARLY BLOOD TURNIP.—Grown specially for us from selected roots. In shape like a turnip, deep red color, and best for general use. We have been selling this stock of Beet for a number of years, and it has given unqualified satisfaction. **Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.**

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

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

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

Pkts. 5c. and 10c. 1-4 lb. 15c. Lb. 35c.



ECLIPSE BEET.

This new 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. We have never known a market gardener to try it but who wanted it again.

Pkts. 5c. and 10c. 1-4 lb. 15c. Lb. 35c.

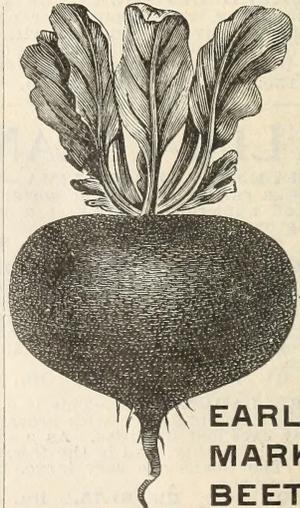
CROSBY'S IMPROVED EGYPTIAN BEET.

A very strain of the well-known Egyptian, carefully selected for years by Mr. Josiah Crosby, a noted Eastern market gardener, whose aim was to secure a superior perfect forcing variety. The results obtained were handsome form, good size, few small tops, very small tap root, fine quality, deep blood color, and, above all, 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. Takes on its turnip shape and looks well even in the early stages of its growth, on which account it is preferred for forcing to Globe and Half Long varieties. This is a decided advantage to those who force for real early market. Once used, it is preferred to Egyptian or Eclipse for forcing in frames or for first sowing outside, and being a rapid grower, it may be sown outside as late as July. No market or private grower who values earliness should fail to give the Crosby's Egyptian a trial.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 35c.

LARGE EGYPTIAN BEET.—One of the best for early or general crop, it is of good shape, deep red color, and does not crack open, is quite a popular sort with Baltimore gardeners.

Pkts. 5c. and 10c. 1-4 lb. 15c. Lb. 40c.



EARLY MARKET BEET.

This is one of the earliest and best varieties of Beet we have ever sold. Specially suited for the market garden trade.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

BEETS—CONTINUED.

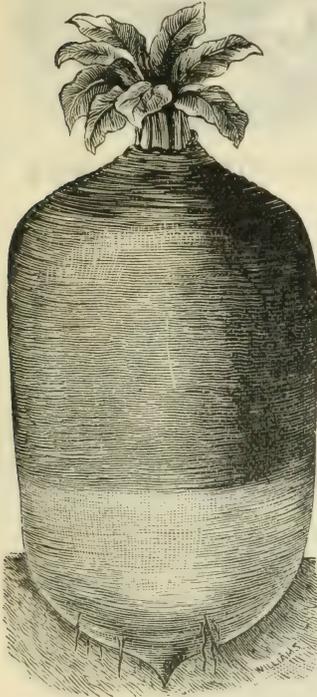
EDMOND'S RED TURNIP.—The most uniform of all Turnip Beets. It is of handsome round shape, good marketable size, and deep blood color. It has a small top, and may be planted close.
Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

LARGE LONG BLOOD.—A large and desirable late variety of deep red color.
Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

SWISS CHARD.—Oz. 10c. 1-4 lb. 25c.

BEETS FOR STOCK.

(Sow four pounds to the acre.)



GOLDEN TANKARD MANGOLD.

MANGOLD WURZELS. are grown for stock, and as they grow larger than other Beets, require more room. They should be sown from April to June, in drills two and a half feet apart, and the plants thinned to 12 or 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.

GOLDEN TANKARD MANGOLD

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

It has already taken the lead of other varieties in England, and is relished by milch cows and sheep.
Pkt. 5c. 1-4 lb. 15c. Lb. 30c. Five lbs. \$1.00.

CHAMPION YELLOW INTERMEDIATE, or GATE-POST MANGEL.—One of the very finest Mangels ever introduced, giving unbounded satisfaction wherever grown. The crop is very uniform and the roots heavy, handsome and clean, with single tap root. In flavor they are wonderfully rich and nutritious. With good cultivation will crop at the rate of 200 bushels per acre.
1-4 lb. 15c. Lb. 40c. Four 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. 1-4 lb. 15c. Lb. 30c. Five lbs. \$1.00.

WHITE SUGAR BEET.—A large growing sort, and used for feeding stock.
Pkt. 5c. 1-4 lb. 15c. Lb. 30c. Four lbs. \$1.00.

BRUSSELS SPROUTS.

German, Kopfkohl Gruner.

(One ounce of seed to 100 yards of row.)

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. It is a delicious vegetable, especially after being exposed to the frost. Plant in rich soil, in hills two feet apart each way.
Pkt. 10c. Oz. 20c. 1-4 lb. 60c.

BROCCOLI.

German, Spargel Kohl.

(One 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. 40c.

LARGE EARLY WHITE.—Head white, like Cauliflower; the best.

Pkt. 10c. Oz. 40c.

BORECOLE.

This is often called Broccoli by market gardeners, but belongs to the Kale family. Very spreading in habit, and beautifully curled.

Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 25c. Lb. 75c.

CABBAGE

German, Kopfkohl.

(One ounce of seed to 100 yards of row.)

Cabbage will thrive on any good corn land, though the stronger the soil the better they will develop. New land is preferable. Plow deep and manure very liberally, as Cabbage is a strong feeder and will repay for the care bestowed upon it. The early sorts bear planting from eighteen inches to two feet apart in the rows, with the rows from two to two and a half feet apart. The larger varieties to be from two to four feet apart in the rows, with the rows from two and a half to four feet apart, the distance varying with the size. It does not pay to buy cheap Cabbage seed. Ours is American grown, and from the best stock in the country.

For early use, sow in a hot-bed in February or March, and transplant 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 five or six inches high. The ground should be thoroughly cultivated every week until the plants meet in the rows.

LARGE EARLY YORK.—One of the earliest. Forms a medium size pointed head.

Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. \$1.25.

THE LUPTON.—This will mature earlier than Flat Dutch, keeps well, and is a good header.

Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. \$1.25.



EARLY SPRING CABBAGE.—An extra early, round-headed Cabbage of the early summer type.

Pkt. 10c. Oz. 30c. 1-4 lb. \$1.00. Lb. \$3.00.

SELECT EARLY JERSEY WAKEFIELD CABBAGE.

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. 15c. 1-4 lb. 40c. Lb. \$1.25.

LARGE EARLY YORK.—One of the earliest. Forms a medium size, pointed head.

Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. \$1.25.



SUCCESSION CABBAGE.

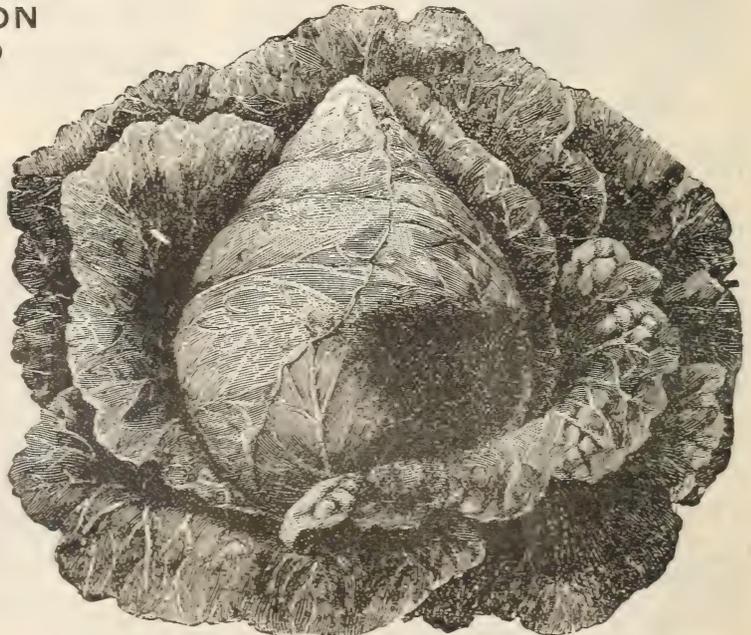
The Succession Cabbage is one of the most valuable contributions to horticulture. It would be classed as a second early variety, coming in a few days later than Early Summer, but it is immeasurably superior to that variety; it is nearly double the size, and is absolutely true to its type under all conditions. 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. 15c. 1-4 lb. 40c. Lb. \$1.25.

BIG CHARLESTON WAKEFIELD CABBAGE.

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 quite solid. It is very compact in growth, and can be easily planted in rows two feet apart and twenty inches in rows. One does not burst open when ripe, like many other great advantage is, it 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. 15c. 1-4 lb. 40c. Lb. \$1.25.



CABBAGE

CONTINUED.

KING OF EARLIES An excellent early sort. Heads formed like a Wakefield, but ten days earlier. Habit vigorous, short stem, and proof against sun.

Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 50c. Lb. \$1.75.

EARLY WINNINGSTADT.— Head large, cone-shaped, and solid. An old and popular sort.

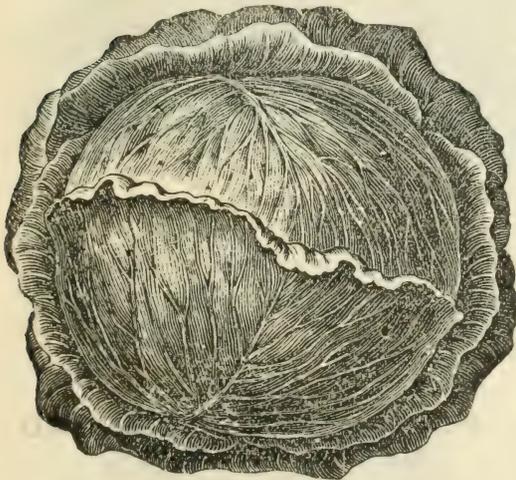
Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. \$1.25.

EARLY DWARF FLAT DUTCH.—An old standard variety which stands the sun and produces fine large heads, coming in soon after the Wakefield.

Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. \$1.25.

LARGE EARLY SUMMER.—One of the earliest of the summer varieties. Heads large and flat; short stemmed, few outside leaves, uniform in character, and about ten days later than the Wakefield. It is very popular with the truckers.

Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. \$1.25.



NEW EARLY CABBAGE.

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. 1-4 lb. 40c. Lb. \$1.25.

LOUISVILLE DRUMHEAD. 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.

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

SUREHEAD.— 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. 15c. 1-4 lb. 40c. Lb. \$1.25.



GERMAN EXPORT, or 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 the Philadelphia, New York and Boston markets.

Pkt. 10c. Oz. 20c. 1-4 lb. 50c. Lb. \$1.50.

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

Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 50c. Lb. \$1.50.

ALL SEASONS 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. 15c. 1-4 lb. 40c. Lb. \$1.25.

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

Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 35c. Lb. \$1.00.



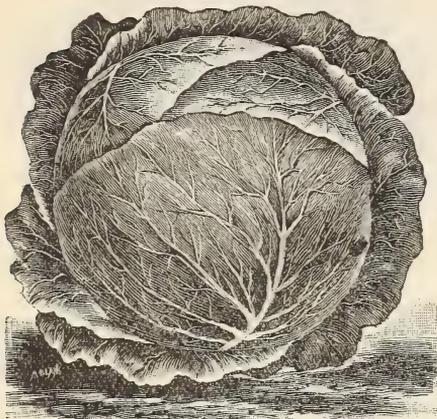
PREMIUM LARGE LATE FLAT DUTCH.

Large and excellent for winter, very extensively grown. The head is broad, thick and flat, well covered in by leaves lapping across the centre, outside leaves feathered to the base of the leaf stem.

Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 35c. Lb. \$1.00.

CABBAGE

CONTINUED.



ALL-HEAD EARLY CABBAGE.

This is the earliest 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. 15c. 1-4 lb. 40c. Lb. \$1.25.

Gents—Having dined several times with Mrs. — at Deer Park, Maryland, who buys her seed from you, and liking the vegetables very much, have concluded to send to you for my garden seeds.

MRS. J. W. WILLIAMS, Philadelphia.



BOSS FLAT DUTCH CABBAGE.

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 centre, making it the most desirable winter variety in cultivation. Try it and be convinced of its superior quality.

Pkts. 5c. and 10c. Oz. 15c. 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. Very solid beautiful dark green color, and one of the best keepers we know.

Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. \$1.25.

PERFECTION DRUMHEAD SAVOY CABBAGE.

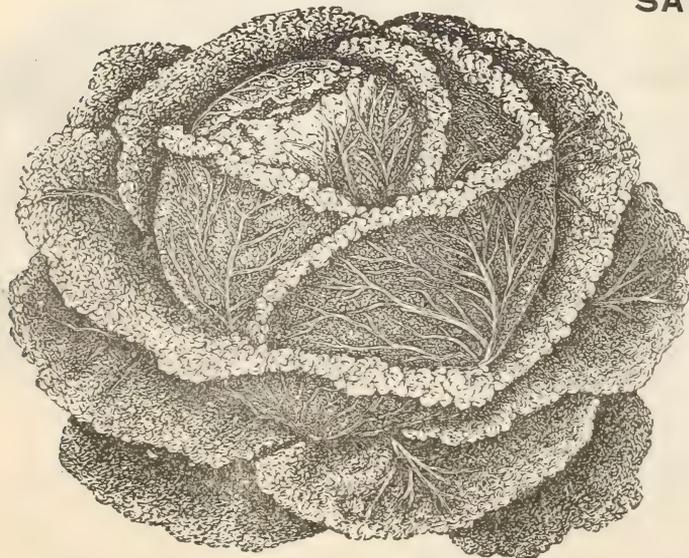
This is without any exception, the finest stock of Savoy Cabbage to be found anywhere. The heads are large and solid, the leaves beautifully curled, and in tenderness and flavor it is almost equal to Cauliflower, while its keeping quality is first-class. To say that our market gardeners are pleased with 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.

This is, without any exception,
Pkts. 5c. and 10c. Oz. 15c.
1-4 lb. 40c. Lb. \$1.25.

GEORGIA COLLARDS.

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

Pkt. 10c. 1-4 lb. 20c. Lb. 50c.



CAULIFLOWER

(One ounce of seed will produce 2,000 plants.)

Many amateurs make the mistake of sowing the seed too early for late crop. It should not be sown before May, as when sown earlier they begin to head before the hot weather is over, and are a failure. Cauliflower can only be grown on rich, well-tilled and well-watered soil.

The most delicate and delicious of all the Cabbage family, and requiring the same culture and treatment, but being more delicate, the good culture and

richness of the soil recommended for Cabbage is absolutely necessary for the Cauliflower. For early crop, sow in hot-bed or cold frame in February or March. For late crop sow and treat like late Cabbage.

SELECT EARLY DWARF ERFURT.—Long the standard of highest excellence, and still holding its own with a great many people.

Pkts. 25c. and 50c. 1-4 oz. 50c. Oz. \$1.75.

EARLY PARIS.—An excellent sort for early or late use.

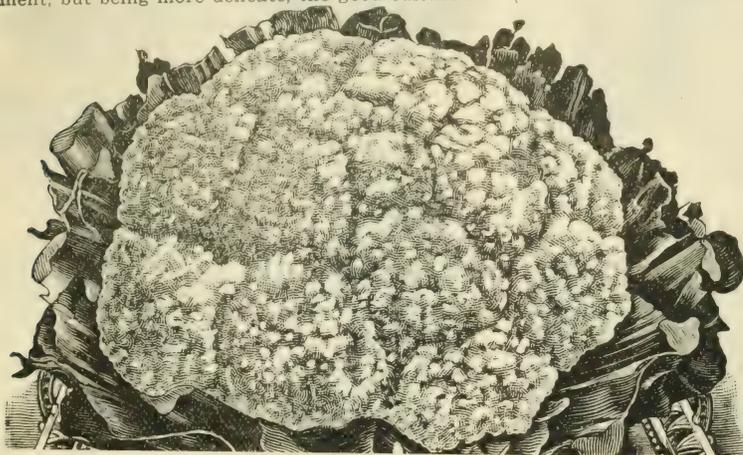
Pkt. 10c. Oz. 50c.

G. & T. CO.'S GILT EDGE SNOW BALL CAULIFLOWER.

Our 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.

Pkts. 25c. and 50c.

1-4 oz. 75c. Oz. \$2.00.



PRICE OF BOSS FLAT DUTCH CABBAGE SHOULD BE

OZ. 20C. 1-4 LB. 50C. LB. \$1.50.



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. 1-4 lb. 15c. Lb. 40c.

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. 1-4 lb. 20c. Lb. 60c.

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.

Pkt. 10c. Oz. 30c.

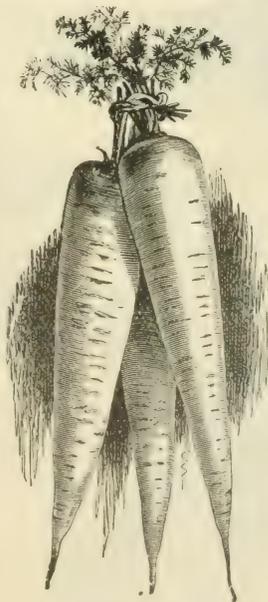
ROOT.

ian, Mohre.

(One ounce 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 in rows 14 inches apart and thin plants to five or six inches in the row. Sow from middle of April to middle of May. For late crops sow in June or July. An important point in sowing Carrots is to tread the rows firmly after sowing. For field culture Carrots should be sown in drills three to three and a half feet apart, so as to cultivate by horse.

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.



LONG ORANGE.

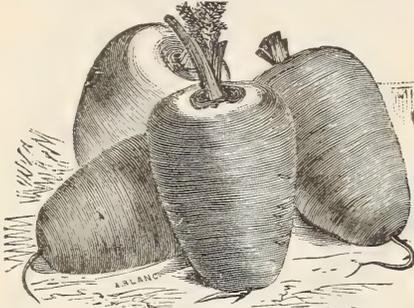
Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 60c.

CARROT

CONTINUED

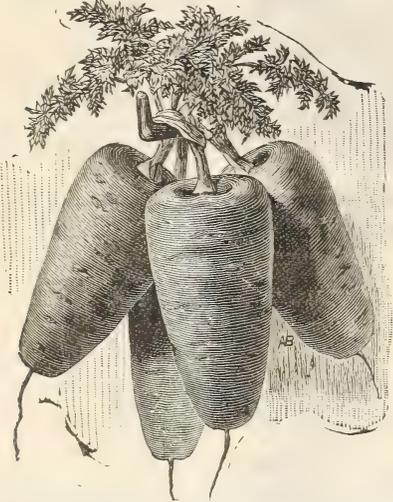
By Express, deduct 10c. per lb.

EARLY SCARLET HORN.—Blunt-rooted, early, good. Favorite sort for early crop.
Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 65c.



OX HEART CARROT.

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. 1-4 lb. 20c. Lb. 60c.



NEW CHANTENAY CARROT.—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. 1-4 lb. 20c. Lb. 65c.

HALF-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.
1-4 lb. 20c.
Lb. 60c.



HALF-LONG ORANGE DANVERS.

CELERIAC OR TURNIP ROOTED CELERY.



LARGE, SMOOTH PRAGUE.—The largest, smoothest and best of the Celeriacs.

Pkts. 5c. and 10c.
Oz. 20c. 1-4 lb. 50c.
Lb. \$1.50.

NEW APPLE SHAPE.—Small foliage, large, round smooth.

Pkts. 5c. and 10c.
Oz. 20c. 1-4 lb. 50c.
Lb. \$1.50.

CELERY.

German, Seleri.

(One ounce will produce 2,000 plants.)

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

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. 1-4 lb. 40c. Lb. \$1.25.

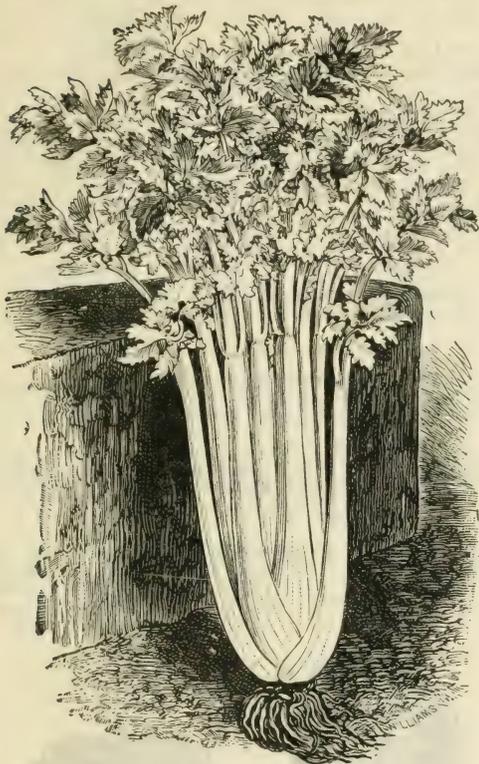


GIANT PASCAL.

GIANT PASCAL.—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 a fine, nutty flavor, being entirely free from any bitter taste. It grows about two feet high; the stalks are very broad, thick and crisp; the width and thickness of these are distinctive features of this variety.

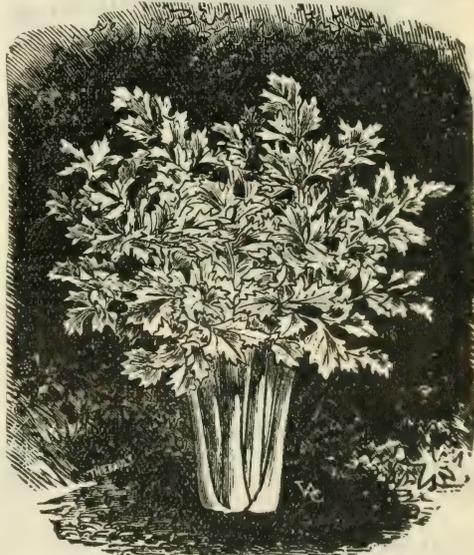
Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. \$1.25.

PARIS GOLDEN SELF-BLANCHING CELERY.



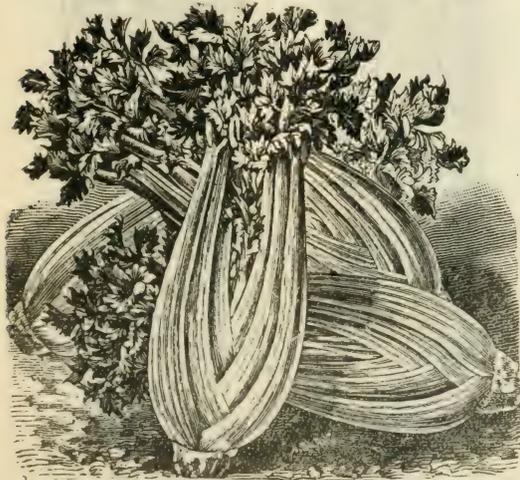
This cannot be too highly recommended, as after being thoroughly tested it has fulfilled all that has been claimed for it. It is decidedly the very best and most profitable Celery in cultivation; it is very early and entirely self-blanching. The beautiful appearance of the plant, its close habit, compact 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 striking appearance and delicious flavor. Our stock of this variety has been giving the market gardeners the very best results for several years.
Pkts. 5 and 10c. Oz. 20c. 1-4 lb. 65c. Lb. \$2.00.

EARLY ARLINGTON.—This new Celery is an improved selection of the well-known Boston Market Celery, made by an Arlington market gardener. It is very early, coming in quite three weeks in advance of the Boston Market; and its superiority over that variety is in the fact that it is earlier, of larger size, and more vigorous growth, and bleaches easily and more quickly.
Pkt. 10c. Oz. 20c. 1-4 lb. 50c. Lb. \$1.50.



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. 1-4 lb. 60c. Lb. \$2.00.



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. 1-4 lb. 50c. Lb. \$1.50.

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. 25c. 1-4 lb. 75c.

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. 20c. 1-4 lb. 50c. Lb. \$1.50.

WHITE SOLID.—A large, standard sort. One of the best of the large growing sorts.
Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. \$1.25.

FLAVORING CELERY.—This seed is used for flavoring pickles, soups, etc.
Pkt. 5c. 1-4 lb. 10c. 1-2 lb. 15c. Lb. 25c.

GOLDEN HEART.

OR GOLDEN DWARF CELERY.

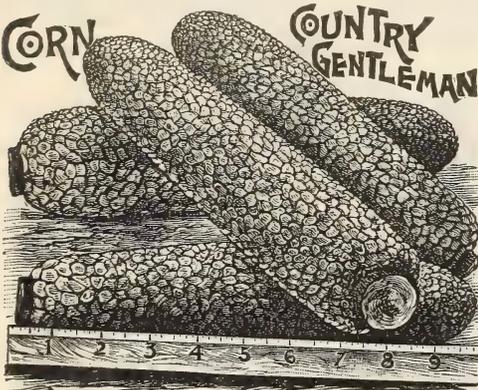
This old standard variety still holds a high place in the estimation of market gardeners, and is largely used, always giving satisfaction. A showy sort, solid, of fine flavor, and a good keeper.
Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c. Lb. \$1.25.

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 three to four feet apart, and the seeds placed about eight inches apart in the rows, or planted in hills three to four feet apart each way, according to variety grown or richness of soil. Do not leave 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.



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.
Qt. 20c. Pk. 90c. Bu. \$3.00.

FIRST OF ALL.—A selection from the Cory, the ears about same size as Cory, lighter in color and earlier.
Qt. 20c. Pk. 75c. Bu. \$2.50.

WHITE CORY.—An extra early variety, with good-sized ears and large kernels.
Qt. 20c. Pk. 75c. Bu. \$2.50.

EXTRA EARLY BALTIMORE.—The hardiest 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.
Ear 5c. Doz. 30c. Qt. 15c. Pk. 75c. Bu. \$2.25.



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.
Qt. 20c. Pk. 90c. Bu. \$3.00.

EXTRA EARLY ADAMS.—Ear 5c. Doz. 25c. Pt. 10c. Qt. 15c. Pk. 50c. Bu. \$1.50.

ADAMS EARLY.—A favorite in the South.
Ear 5c. Doz. 25c. Pt. 10c. Qt. 15c. Pk. 50c. Bu. \$1.50.

EARLY BURLINGTON HYBRID.—We introduced this variety in this market five years ago, and our sales have grown each year. Not a true Sugar Corn, but a hybrid or mixture between the Sugar Corn and the Adams Early, being as early as Adams, with an ear about the size of Stowell's Evergreen, and more productive than either. The husk, blade and ear, when green resemble the Sugar Corn. Those who have tried it want it again.
Doz. 25c. Qt. 15c. Pk. 65c. Bu. \$1.75.

CROSBY'S EXTRA EARLY.—An early market variety, very productive, ears rather short and rich, sugary flavor.
Qt. 20c. Pk. 75c. Bu. \$2.50.

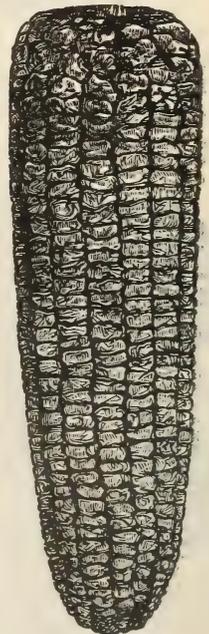
EARLY MINNESOTA SUGAR.—One of the first early among Sugar Corn.
Qt. 20c. Pk. 75c. Bu. \$2.50.

STABLER'S EARLY.—Of larger size than usual for the early kinds. It is remarkable for the fine flavor, sweetness and earliness, and is a desirable gardeners' and canning variety.
Pt. 10c. Qt. 20c. Pk. 75c. Bu. \$2.75.

STOWELL'S EVERGREEN.—So well known that it scarcely needs description. Excellent; keeps green till cold weather; ears large; one of the best.
Ear 5c. Doz. 30c. Qt. 15c. Pk. 75c. Bu. \$2.25.



MAMMOTH.



EVERGREEN.

EARLY MAMMOTH.—A splendid market sort, producing large, handsome ears; grain large, white and sweet. Fills out well at the end.
Ear 5c. Doz. 30c. Qt. 15c. Pk. 75c. Bu. \$2.50.

MAMMOTH SWEET.—The largest variety grown; very fine for market purposes.
Ear 5c. Doz. 50c. Qt. 15c. Pk. 75c. Bu. \$2.50.

CORN - CONTINUED.

KENDALL'S EARLY GIANT.—The largest early Sweet Corn known; comes in just after the Cory, and is very productive.

Pt. 15c. Qt. 25c. Pk. \$1.00. Bu. \$3.00.

NEW ZIGZAG EVERGREEN.—This is one of the sweetest and best late Sweet Corns, 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. 10c. Qt. 20c. Pk. 75c. Bu. \$2.50.

HICKOX.—A very handsome and excellent variety of Sugar Corn; large, white grain and sweet. Ear 5c. Doz. 40c. Qt. 20c. Pk. 75c. Bu. \$2.50.

EGYPTIAN, or WASHINGTON MARKET.—A large variety, somewhat resembling the Evergreen; flavor peculiarly rich and sweet, and of superior quality; fine for market. Ear 5c. Doz. 30c. Qt. 20c. Pk. 75c. Bu. \$2.50.

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. Qt. 25c. Pk. 85c. Bu. \$3.00.

BLACK MEXICAN SUGAR.—The Black Corn is especially rich in sugary qualities. Qt. 20c. Pk. 75c.

90-DAY CORN (RED COB).—This is an elegant Corn for truckers and market gardeners, as it is a good seller as green Corn. Is suitable for either early or late crop.

Qt. 10c. Pk. 50c. Bu. \$1.50.

SUGAR CORN.—For fodder. Bu. \$1.25.

CUCUMBER.

German, Gurke.

(One ounce will plant 50 hills; two pounds will plant one acre.)

For very early Cucumbers sow the first of April in a hot-bed, 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 four feet apart for the smaller varieties, and five feet for the larger sorts. 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 or air-slacked 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.

EVER-BEARING CUCUMBERS.



This variety is entirely new and unique, and will prove valuable both for the table and for pickling. It 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. 1-4 lb. 20c. Lb. 50c.



LONG GREEN.—Has long been a favorite with growers; dark green, firm and crisp. Superior for pickles and for market.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 40c.

LONG GREEN TURKEY.—A very showy and excellent sort.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.

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. 1-4 lb. 15c. Lb. 40c.



BALTIMORE WHITE SPINE CUCUMBER.—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 the truckers around Baltimore and Norfolk, as well as the growers from Virginia to Florida.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.

EXTRA EARLY WHITE SPINE.—A strain of White Spine which has been improved through careful selection, with a view to use for forcing in hot-houses 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. 1-4 lb. 15c. Lb. 40c.

JERSEY PICKLE. 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. 1-4 lb. 15c. Lb. 40c.

CUCUMBERS.
CONTINUED.

EARLY GREEN.— Early, short, prolific. Quality of fruit good.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

EARLY CLUSTER.— A short, prickly variety, bearing in clusters near the root. A great bearer.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

GHERKIN, or BURR.— Used for pickles only.

Pkt. 5c. Oz. 15c. 1-4 lb. 35c.

ENGLISH FORCING CUCUMBER.

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

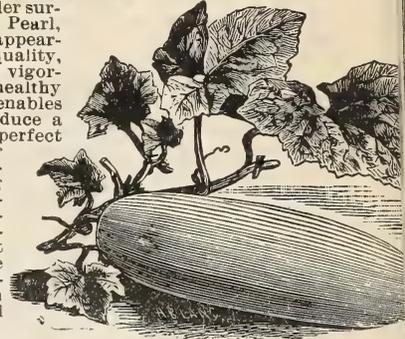
TELEGRAPH is the best 25c. Packet.

JAPANESE CLIMBING CUCUMBER.— It bears abundantly throughout the season, while the climbing habit enables the hanging fruit to grow perfectly straight; from twelve to sixteen 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. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 65c.

WHITE WONDER CUCUMBER.

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. 1-4 lb. 30c. Lb. \$1.00.


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. and 25c. Oz. 30c. 1-4 lb. 75c. Lb. \$2.50.

German, Eierpflanze.

(One ounce will produce about 1,000 plants.)

Sow the seed in hot-beds 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.

ENDIVE.

German, Endivien.

(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 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.

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

Pkt. 5c. Oz. 15c. 1-4 lb. 40c. Lb. \$1.25.

KALE.

German, Blatter-Kohl.

(One ounce of seed will sow a drill of about 200 feet.)

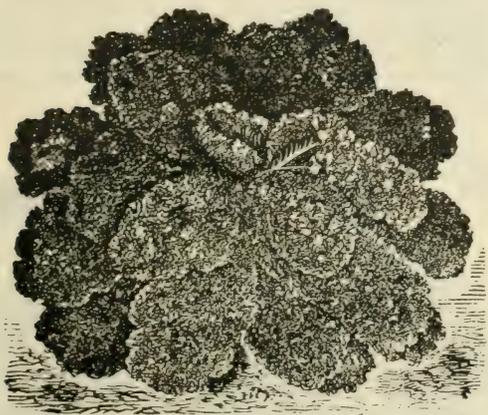
The Kales are more hardy than Cabbage, and make excellent greens for winter and spring use, and are improved by frost. For early spring use sow broadcast in September, and protect during winter. It must also be sown in April or May for later use.

DWARF GERMAN GREENS, or SPROUTS.—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.

Pkt. 5c. 1-4 lb. 10c. Lb. 25c.

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

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 50c.



**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. 1-4 lb. 10c. Lb. 30c.

Tallen, La., August 8, 1898.

Sirs—Your seeds give me much better satisfaction than those we can buy in New Orleans. The seeds I received from you produced the finest Cabbage I ever saw.

HENRY CORBIN.

Darlington, Ohio, April, 1898.

Your cabbage is very fine; almost every plant made a head.

MRS. C. B. POORMAN.



KOHL RABI.

(1 ounce 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. 1-4 lb. 50c.
Lb. \$1.50.



—LEEK.—

German, Lauch.

(One oz. of seed to 150 feet of row.)

Select good Onion soil, manure liberally, plant in April in drills six to eight inches deep and eighteen inches apart, and thin to nine 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.—A large and strong plant; hardy; the best variety for general culture.

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

MUSSELBAUGH. — Oz. 20c.
¼ Lb. \$1.25.

LARGE ROUEN.—Pkts. 5c. and 10c. Oz. 20c.
1-4 lb. 50c. Lb. \$1.50.

==LETTUCE.==

German, Lattich.

(One ounce of seed to 150 feet of row.)

Lettuce requires a rich and rather moist soil. The rows should be about twelve inches apart, and the plants thinned to ten or twelve 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.

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

Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 30c. Lb. \$1.00.



EARLY WHITE CABBAGE, or BUTTER.—A broad-leaved, vigorous heading sort; white, showy and desirable.

Pkt. 5c. Oz. 10c. 1-4 lb. 25c. Lb. 85c.

TENNIS BALL.—Black seed. A favorite forcing variety; a very hard head.

Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 30c. Lb. \$1.00.

G. T. & CO.'S

SUMMER LETTUCE

BLACK SEED.

This Lettuce is becoming very popular among gardeners, and bids fair to eclipse all others 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.
1-4 lb. 30c.
Lb. \$1.00.

NEW WHITE SEED SUMMER LETTUCE.—Having heard of this superior Lettuce, we secured some of the seed, and now offer it for the first time. 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.

Pkt. 5c. Oz. 15c. 1-4 lb. 40c. Lb. \$1.25.

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. 5c. and 10c. Oz. 15c. 1-4 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. 1-4 lb. 40c. Lb. \$1.25.

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. 1-4 lb. 30c. Lb. \$1.00.

CREAM BUTTER LETTUCE.—BLACK SEED. This is fairly well known and has given good results with the growers.

Pkts. 5c. Oz. 10c. 1-4 lb. 30c. Lb. \$1.00

HANSON.—A variation of the India, forming a half-closed head.

Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 30c. Lb. 90c.

SALAMANDER.—BLACK SEED.—An excellent sort for spring or summer use, forms good-sized heads of excellent quality.

Pkts. 5c. Oz. 10c. 1-4 lb. 30c. Lb. \$1.00



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.

Pkt. 5c. Oz. 15c. 1-4 lb. 35c. 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.

Pkt. 5c. Oz. 10c. 1-4 lb. 30c. Lb. \$1.00.

BIG BOSTON.

The same in color, shape and general appearance as the Boston Market, but 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. 1-4 lb. 40c. Lb. \$1.25.



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.

Pkts. 5c. Oz. 10c. 1-4 lb. 25c. Lb. 90c.

BALTIMORE CABBAGE LETTUCE.

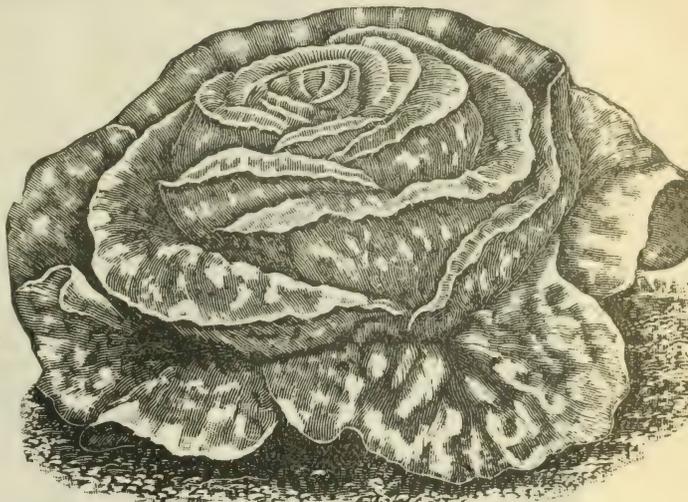
LEADS THEM (ALL.

Large heads, beautiful heads.

Solid head, 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, Maryland, says: "I had three thousand 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.

1-4 lb. 50c. Lb. \$1.50.

NEW YORK LETTUCE.—Very large, solid, Cabbage heads; slow to run to seed; crisp, tender and of nice flavor.

Pkt. 5c. Oz. 15c. 1-4 lb. 40c. Lb. \$1.25.

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. Oz. 10c. 1-4 lb. 30c. Lb. \$1.00.

MELON—CANTELOUPE.

German, Melone.

(One ounce of seed to 50 hills.)

Sow about the last of spring or 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 most productive and mature earlier. It should not be grown near squashes, cucumbers or pumpkins, as the flavor will be affected in consequence.

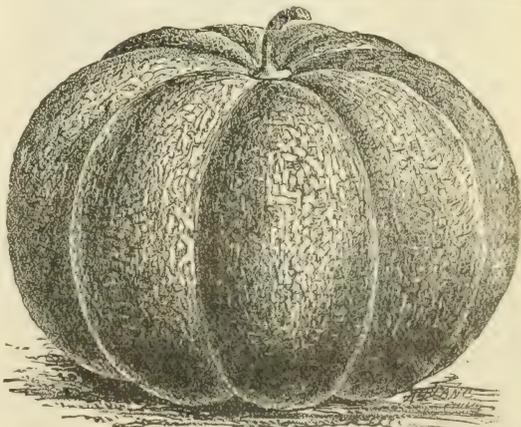
SOUTHERN BEAUTY CANTELOUPE.

The Musk Melon For The South.

This is a new introduction of great merit and value. It is of medium size, extraordinarily prolific, very heavily netted, green fleshed and of delicious flavor.

The Grower says: "It is the finest Cauteloupe I have ever planted, particularly suited to the Southern climate. It is remarkably free from rot of all sorts, caused by damp or rainy weather, and will hold up a long time after they have ripened, the outer rind remaining firm and sound for at least ten days after the melon first ripens." Again he says: "I shipped these Cauteloupes last season from this point to Chicago, Illinois, Cleveland and Cincinnati, Ohio, by freight, where they arrived in perfect condition, and brought fancy prices." This was proof positive of its fine keeping and shipping qualities.

Pkt. 5c. Oz. 10c. 1-4 lb. 25c. Lb. 75c

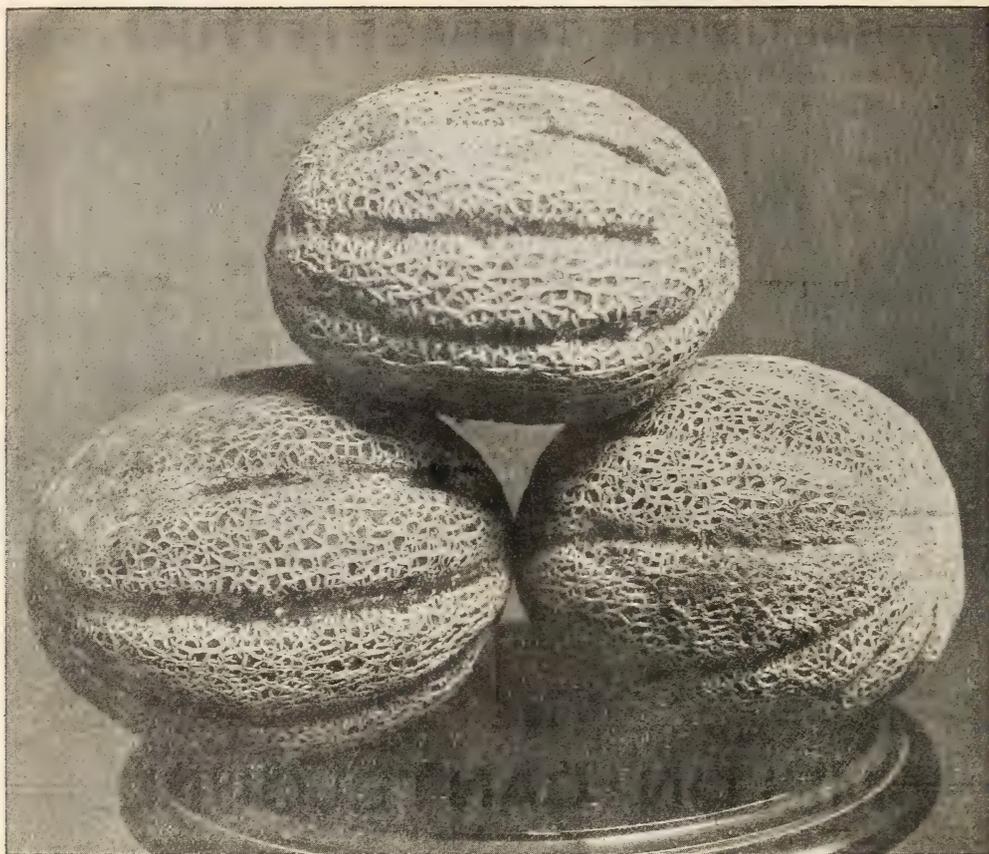


EMERALD GEM.—Meat salmon color, exceedingly sweet and delicious; very early and prolific. One of the best for family use. Its appearance is not attractive, but try it and you will want it again.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

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. 10c. 1-4 lb. 20c. Lb. 50c.



BALTIMORE NUTMEG CANTALOUPE.

The above 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. In passing through the fields inspecting the crops we were surprised at the uniformity in the shape and size of the fruit. 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. 1-4 lb. 15c. 1-2 lb. 20c.
Lb. 30c.

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.

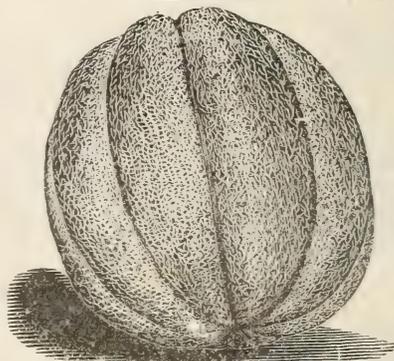
Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

EARLY NETTED GEM.—Extensively grown, and many prefer it to all others for table use. Shape almost a perfect globe, and 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. 1-4 lb. 15c. Lb. 40c.

IMPROVED JENNY LIND.—A small, early variety of surpassing good quality, highly recommended for family garden. We consider this the most delicious Canteloupe 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.

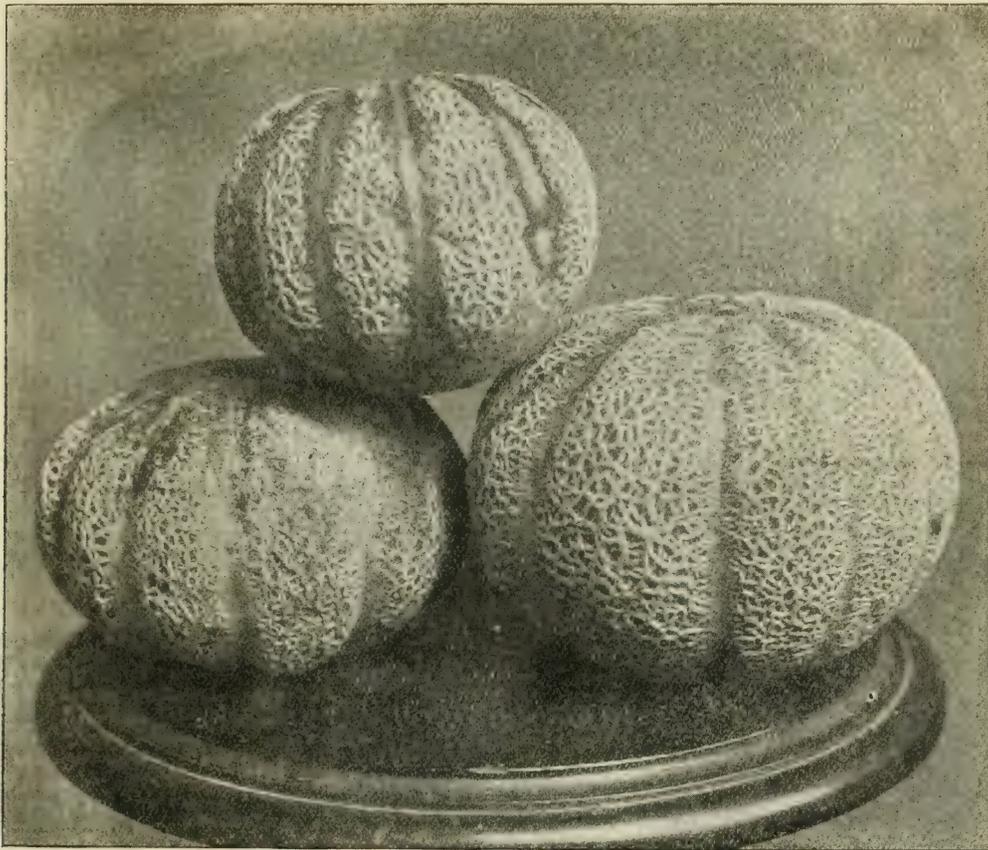
Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.



EXTRA EARLY HACKENSACK.—Netted, green flesh and excellent; very showy market variety and an excellent keeper; ten days earlier than the Old Hackensack.

Pkts. 5c. and 10c. 1-4 lb. 15c. Lb. 40c.

SPECIAL PRICES TO GARDENERS AND FARMERS IN LARGE QUANTITIES.



ANNE ARUNDEL CANTALOUPE.
(ORIGINAL STOCK.)

The above represent 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 wagon load of them at once attracts the buyer's 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. 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. One grower says: "It is in all respects one of the best of melons." Another says:

"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."

Pkts. 5c. and 10c. 1-4 lb. 20c. Lb. 40c.

WATERMELON

German, Wasser-Melone.

(One ounce of seed to 30 hills.)

Watermelons require a rich, sandy soil for best development. Cultivate the same as for Cantaloupes, except that the hills should be eight to ten feet apart.

THE JONES.—This is a splendid melon. The color of the skin is solid green, and the flesh is a very bright red, particularly sweet, juicy and melting. It grows to a large size, frequently attaining the weight of eighty pounds. In shape it resembles Kolb's Gem, and, like that variety, is one of the best shipping sorts.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

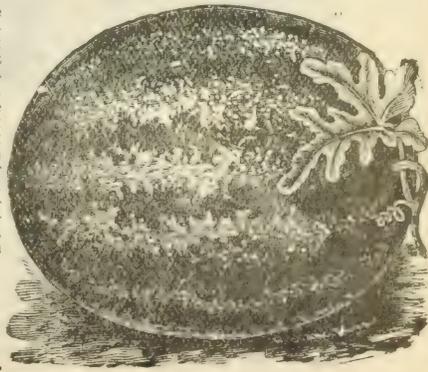
RATTLESNAKE.—Large, oblong, striped and mottled; flesh bright red; a good shipper; a favorite variety in the South.

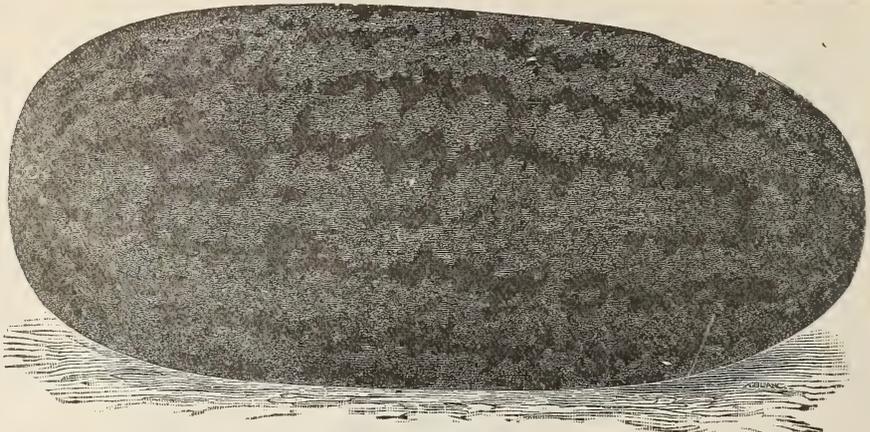
Pkts. 5c. and 10c. 1-4 lb. 15c. Lb. 40c.

KOLB'S GEM.

This is one of the largest, most productive, best keeping and best shipping watermelon grown. Sells readily at the highest market price. 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.
1-4 lb. 15c.
Lb. 30c.
Five lbs. \$1.25.



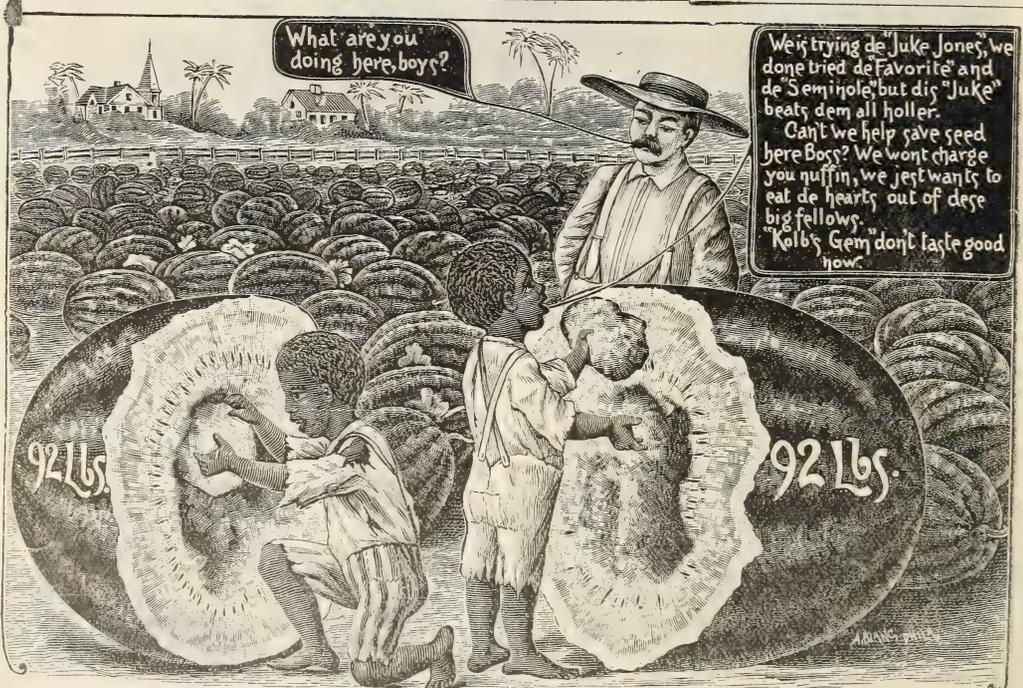


LORD BALTIMORE WATERMELON.

We wish to call special attention to this splendid and delicious melon. 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 mot-

ted, 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.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 60c. Five lbs. \$2.50.



What are you doing here, boys?

We is trying de "Juke Jones", we done tried de Favorite and de Seminole, but dis "Juke" beats dem all holler. Can't we help save seed here Boss? We wont charge you nuffin, we jest wants to eat de hearts out of dese big fellows. "Kolb's Gem" dont taste good now.

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; the general appearance is that 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 mel-

ons being plucked from the vine just 67 days from date of planting. Its chief claim for popularity is its delicious flavor. The flesh is crisp and very sweet, firm, but not 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.

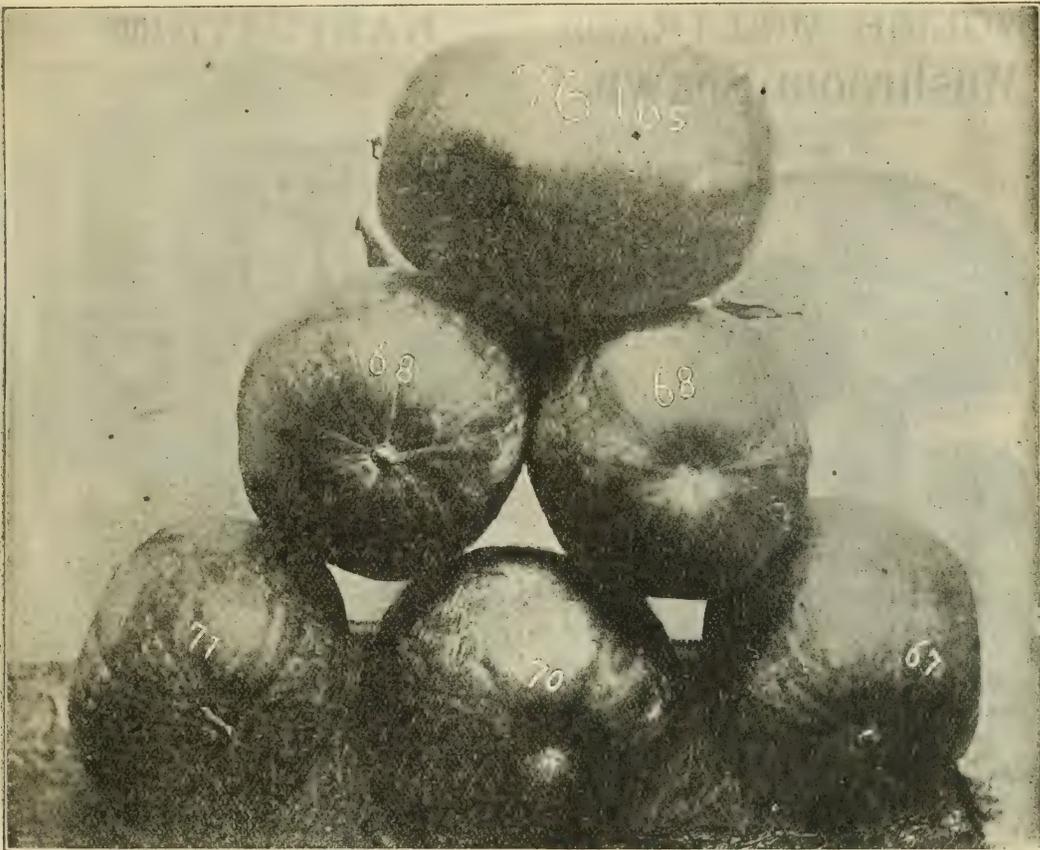
Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

SWEET HEART.—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. 1-4 lb. 20c. Lb. 50c.

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. 1-4 lb. 15c. Lb. 40c.

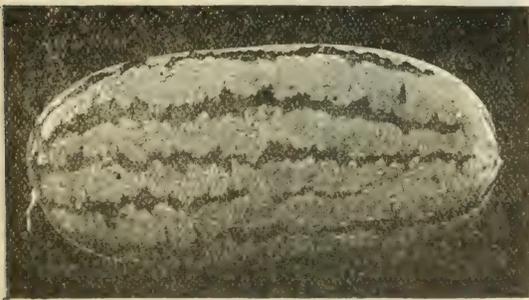


SIX MELONS OF TRIUMPH WATERMELON WEIGHING 420 POUNDS.

This new melon, as a market sort and for shipment, is the 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 Kolb Gem; has the fine, handsome appearance of the former and the fine shipping qualities of the

latter. The rind, like the Duke Jones, is of dark green color, the seed exactly the same color as those of the Kolb Gem. The average size of the melon is very large. Our stock of this seed is very limited.

Pkt. 10c. 1-4 lb. 30c. 1-2 lb. 50c. Lb. 90c.



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 market.

**Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.
Five lbs. \$2.00.**

CITRON FOR PRESERVES.

Fruit round, handsome and small; used in making preserves only.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 60c.

BLUE GEM.

This splendid melon resembles the Kolb Gem in shape, and is of a dark bluish color, with small grayish stripes. It is one of the best shippers, and as a table melon 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."

**Pkt. 5 and 10c. 1-4 lb. 20c. Lb. 50c.
5 lbs. \$2.00.**

McIVER'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.

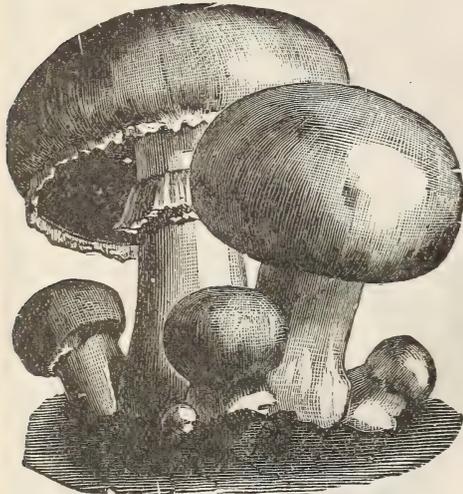
Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 60c.

GRAY MONARCH, or LONG WHITE ICING.—This distinct melon is, without doubt, one of the largest of all, frequently attaining a weight of seventy 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. 1-4 lb. 20c. Lb. 40c.

ENGLISH MILLTRACK Mushroom Spawn.

Lb. 12c. By mail, 30c. 1b. 10 lbs. \$1.00.
100 lbs. \$8.00.



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 same manner as described.

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 three feet wide at the base, two and a half 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 cover 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. Where 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 two inches square and nine inches apart each way. At the expiration of a few days the bed may be covered with soil to the depth of about two inches. If in closed cellar or mushroom house wait about 10 days, but if in open shed 5 days will do. If the soil is poor add a liberal quantity of bone meal.

It requires a period of five to seven weeks before they are ready for use.

MUSTARD SEED.

Pkt. 5c. 1-4 lb. 10c. Lb. 25c.

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.

TALL.—Pkt. 5c. Oz. 10c. 1-4 lb. 25c. Lb. 75c.

DWARF.—Pkt. 5c. Oz. 15c. 1-4 lb. 35c. Lb. \$1.25.

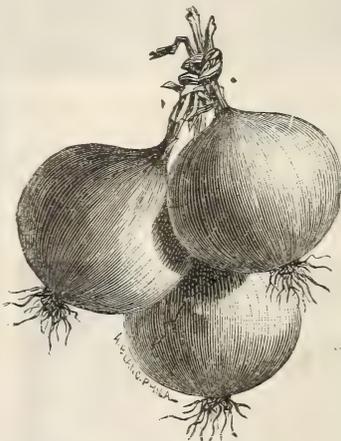
ONIONS

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 five pounds of seed to the acre for large onions.

THE NEW ONION CULTURE.—Sow the seed in hot-bed, and transplant as early as possible to open ground; they can be grown very successfully by this plan.

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 towards them to cover or hill, as we do most other things.

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



Onion Sets

White. Qt. 25c.
by mail, 40c.

Yellow. Qt. 20c.
by mail, 30c.

Write us for
quotations by
the bushel.

EXTRA EARLY RED.—Onions of a good size may be raised from the black seed the first season.

Pkts. 5c. and 10c. Oz. 15c. 1-4 lb. 40c.
Lb. \$1.50.

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.

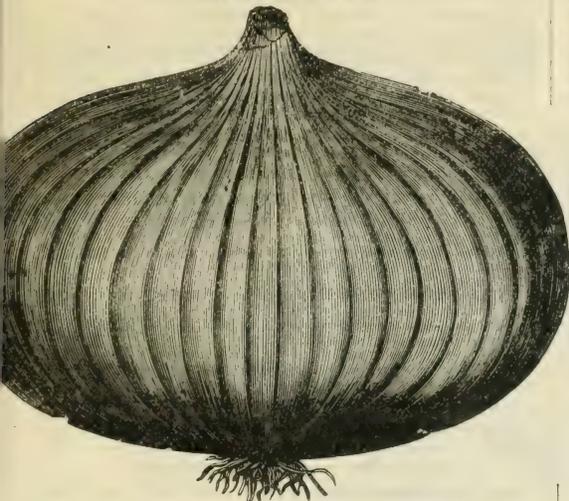
Pkt. 5c. Oz. 15c. 1-4 lb. 35c. Lb. \$1.10.

YELLOW FLAT DANVERS.—Oz. 10c. 1-4 lb. 30c. Lb. \$1.00

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. 15c. 1-4 lb. 35c. Lb. \$1.15.

ONIONS — CONTINUED.



WHITE SILVER SKIN.

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. 1-4 lb. 50c. Lb. \$1.75.

PRIZETAKER ONION.

(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. They are a rich straw color, and of enormous size. Although of such large size, it is very hardy and an excellent keeper. The flavor is mild and delicate, making the Prize-taker a favorite variety for salads. By sowing this sort early, you can raise a 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 them have had remarkably fine success.

Pkt. 5c. Oz. 15c. 1-4 lb. 40c. Lb. \$1.50.
Five lbs. at \$1.35 per lb.

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.

Pkt. 5c. Oz. 15c. 1-4 lb. 50c. Lb. \$1.75.



LARGE RED WETHERSFIELD.—And a well-known and favorite sort. A large yielder and good keeper.

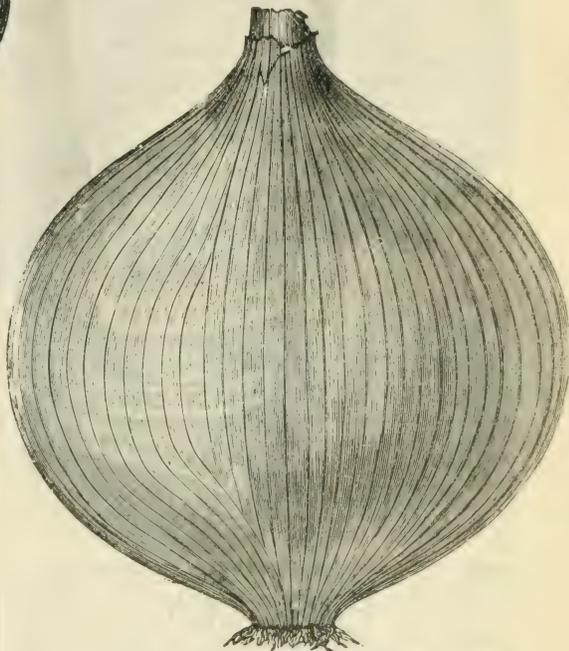
Pkt 5c Oz. 10c. 1-4 lb. 35c. Lb. \$1.25.

BERMUDA ONION SEED.

It is of a mild and delicate flavor and keeps longer than any foreign variety. Like the Italian varieties, it produces full-grown Onions from seed the same season. In the South seed sown in the fall will produce, fine, large Onions for market in early spring.

Bermuda Onion Seed—Red Pkt. 10c. Oz. 20c. 1-4 lb. 50c. Lb. \$1.75.

Bermuda Onion Seed—Pure White Pkt. 10c. Oz. 20c. 1-4 50c. Lb. \$1.75.



PRIZETAKER.

Wheeling, West Virginia, February 1898.

Gents—I write asking you to send me some more of your good and reliable seeds.

WILLIAM CONRAD.

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 seed 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 PROLIFIC.—This is the preferred kind with the growers; is of dwarf habit and very productive.

Pkts. 5c. and 10c. 1-4 lb. 15c. Lb. 40c.

WHITE VELVET.—It is very distinct and the pods are perfectly round, 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. 1-4 lb. 15c. Lb. 40c.

SPECIAL PRICES TO GARDENERS AND FARMERS, IN LARGE QUANTITIES.

PARSNIPS.

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 5 or 6 inches apart.



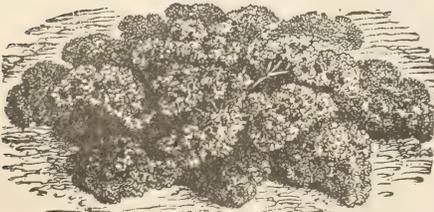
Hollow Crown or Sugar.

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.

Pkt. 5c. and 10c. 1-4 lb. 15c. Lb. 40c.

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 fifteen to twenty-five days in vegetating, it will be necessary to sow early. Thin plants to four inches apart when two 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.



TRIPLE CURLED.— The most beautiful and valuable variety in use. Of a handsome, bright green color, finely crimped and beautifully curled.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.

MOSS CURLED.— A very select crimped variety.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 60c.

PEPPER.

Capsicum, or Pepper, is cultivated mainly for Pickles. It is used as a seasoning in many ways, and sometimes medicinally. Sow the seed early in a hot-bed, if possible; if not, select a warm place in the garden for the seed bed, and sow as soon as the soil is warm. Transplant when three or four inches high, in rows eighteen inches apart.

CAYENNE.— Small, long and tapering, very hot; best for seasoning pickles.

Pkt. 5c. and 10c. Oz. 20c. 1-4 lb. 65c.

LARGE SWEET SPANISH, or MOUNTAIN.— Very large and excellent for Mangoes or Stuffed Pickles.

Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 50c. Lb. \$1.50.

BULL NOSE, or BELL.— Good for pickling; very hot.

Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 50c. Lb. \$1.50.

RUBY KING.— An excellent sort of large size and mild flavor.

Pkt. 5c. and 10c. Oz. 20c. 1-4 lb. 60c.

GOLDEN QUEEN.— In shape and size similar to Bull Nose, and of mild flavor; color yellow.

Pkts. 5c. and 10c. Oz. 25c.

RED CHERRY.— Pkts. 5c. and 10c. Oz. 20c.

RED CHILL.— Pkts. 5c. and 10c. Oz. 20c.

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 or 3 healthy plants to remain in each hill. They are usually planted in fields with corn or potatoes.

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 stripe. The flesh is a rich yellow color, solid, fine grained, very thick, flavor delicious.



Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 60c.

TENNESSEE SWEET POTATO.— A splendid pie and cooking Pumpkin. They grow pear-shaped of medium size, slightly ribbed; skin is a 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. The vines are hardy and enormously productive.

Pkts. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

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

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

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

Pkt. 5c. Oz. 10c. 1-4 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. 10c. Qt. 15c. Lb. 20c. Five lbs. 75c.

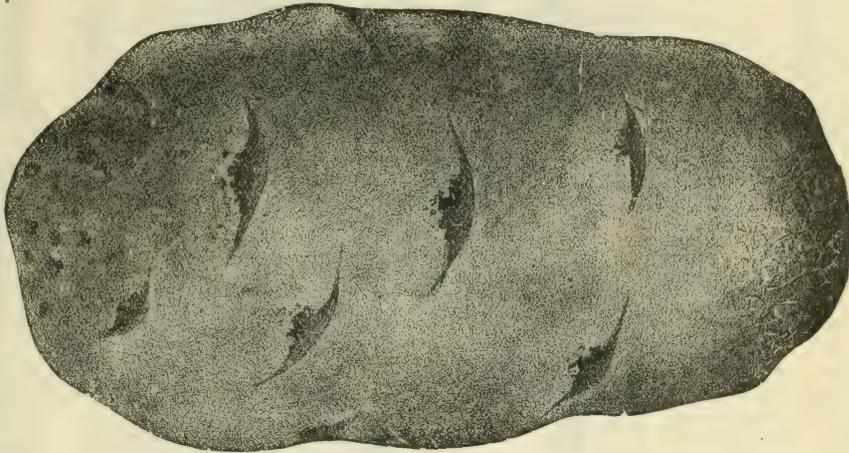
We offer the best Northern grown Seed Potatoes on this page, and at moderate prices, considering the quality of the stock we offer; if wanted in large quantities write for quotations.

POTATOES.

German, Kartoffel.

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 they promote growth and at the same time prevent disease. Plant as early in the spring as the ground can be thoroughly worked in rows three to four 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. If an early crop is desired sprout the tubers, or cut potatoes, in



a light, warm room, from four to six weeks before planting, then lift carefully and plant out; by this process sprouts are obtained that, as soon as planted out in the open ground, will send out shoots, and grow more rapidly than if treated in the ordinary way. The soil should be constantly stirred through the season to prevent the surface from baking.

G., T. & CO.'S EXTRA EARLY PRIZE.—This new Potato which we have grown for several years 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 extra early Potato on the market today.

Pk. 60c. Bu. \$1.50. Bbl. \$4.00.

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.

Pk. 50c. Bu. \$1.50 Bbl. \$3.25.

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. Tubers are of medium size, round and uniform in shape, with but a very few small ones; eyes slightly depressed; color a beautiful light red. Its great beauty, productiveness and fine quality make it one of the best market varieties.

Pk. 60c. Bu. \$1.50. Bbl. \$4.00.

EARLY OHIO.—This is very early and productive, of fine quality and an excellent keeper.

Pk. 50c. Bu. \$1.50. Bbl. \$3.50.

MAINE, or HOULTON EARLY ROSE.—The Early Rose led the list for over thirty 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.

Pk. 60c. Bu. \$1.50. Bbl. \$3.25.

NEW YORK EARLY ROSE.—A leading variety for earliness, quality and productiveness.

Pk. 50c. Bu. \$1.25. Bbl. \$3.00.

NEW QUEEN.—A grand potato of recent introduction, closely resembling Beauty of Hebron in appearance, color, size and shape, but is seven to ten days earlier, and a heavy yielder. Our seed of this variety come from Maine, where it originated, and is pure and true to name.

Pk. 60c. Bu. \$1.50. Bbl. \$3.25.

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 can recommend it highly.

Pk. 50c. Bu. \$1.25. Bbl. \$2.75.

MAINE BURBANK.—This is an old and reliable variety, and is ANo. 1 for a late, large-yielding, good-keeping potato, and for table use, after January 1st, is one of the best.

Pk. 50c. Bu. \$1.25. Bbl. \$2.75.

NEW YORK BURBANK.—At Market Prices.

NOTE.—Prices of Potatoes are subject to market changes and terms are cash. Potatoes are forwarded by express or freight as directed, purchaser paying charges. We use our discretion in regard to time of shipment, as frequently when orders are received, the weather for a week at a time will not permit safe delivery.

We assume no risk on Potatoes. They are forwarded strictly at purchaser's risk.

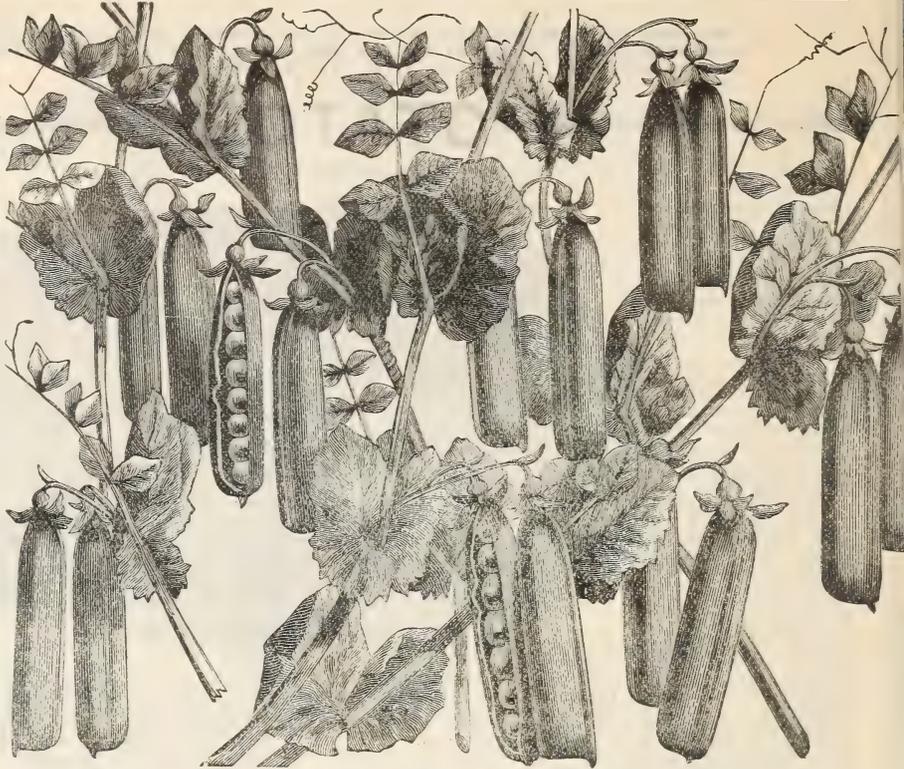
SWEET POTATOES.

Choice Jersey Sweets at market prices during season. Write us for quotations.

PEAS

NOTICE.—In ordering Peas to be sent by mail, please add 8 cents 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 a good condition. Plant the dwarf in rows two feet apart (those varieties attaining the height of from two to three feet apart, in rows three feet apart, and the rows of the tallest sort four feet apart. Bush the tall kind when six inches high, on poles set every six or eight feet, with twine fastened to them about four inches apart, answer finely.



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

(I 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 productiveness. It ripens up so evenly as only to require about two pickings to secure the crop. It is grown

Pt. 15c. Qt. 25c.

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.

Pk. 75c. Bu. \$2.50.

EXTRA EARLY DWARF

(These varieties require no staking.)

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.

Qt. 20c. Pk. 90c. Bu. \$3.50.

PREMIUM GEM.—Height, 15 inches. An improvement upon the Little Gem. A splendid wrinkled dwarf Pea, very luscious in flavor.

Qt. 20c. Pk. 75c. Bu. \$2.75.

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. 10c. Qt. 20c. Pk. \$1.00. Bu. \$3.50.

RURAL NEW YORKER.—Height, 21-2 feet. In maturity it is among the first early.

Qt. 20c. Pk. 75c. Bu. \$2.25.

FIRST AND BEST.—Height, 21-2 feet. Grown with special care; one of the early varieties.

Qt. 20c. Pk. 75c. Bu. \$2.25.

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 make this a most desirable sort for canners and shippers, as it can be carried long distances without losing color.

Qt. 20c. Pk. 75c. Bu. \$2.25.

ALASKA.—Such stock as is usually sold.

Pk. 75c. Bu. \$2.00.

DEXTER (Genuine Stock).—Thoroughly rogued and hand picked.

Qt. 20c. Pk. 75c. Bu. \$2.50.

TRIUMPH.—Qt. 20c. Pk. 75c. Bu. \$2.00.

Second Early and Late Varieties.

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; 11-2 feet.

Pt. 15c. Qt. 25c. Pk. \$1.15. Bu. \$4.50.

YORKSHIRE HERO.—Height 21-2 feet. A wrinkled variety, productive, and of a very superior flavor.

Qt. 20c. Pk. 75c. Bu. \$2.50.

ADVANCER.—Height, 21-2 feet. A green wrinkled variety, introduced some years ago, and has always given satisfaction.

Qt. 20c. Pk. 75c. Bu. \$2.00.

ABUNDANCE.—Height, 30 to 36 inches. An excellent half-dwarf, medium early, wrinkled variety, pods 31-2 inches long, containing 6 to 8 large Peas of excellent quality.

Qt. 20c. Pk. 75c. Bu. \$2.25.

HEROINE.—A medium early green wrinkled Pea, and one of the best of recent introduction; large, recurved, showy pods; an immense cropper; Peas of finest quality; height, 2 to 21-2 feet.

Pt. 10c. Qt. 20c. Pk. 85c. Bu. \$3.00.

SHROPSHIRE HERO. A grand new second early wrinkled Pea, producing long, handsome, well-filled pods in great abundance; height, 21-2 feet.

Pt. 10c. Qt. 20c. Pk. 85c. Bu. \$3.00.

DWARF GREEN WRINKLED MARROW.—An excellent new wrinkled variety. Large pods and very productive.

Qt. 20c. Pk. 75c. Bu. \$2.75.

SPECIAL PRICES TO GARDENERS AND FARMERS, IN LARGE QUANTITIES.

PEAS

NOTT'S EXCELSIOR.

Nott's Excelsior is the best 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 six to eight 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. 25c. Pk. 90c. Bu. \$3.25.

EVERBEARING.—Vines about two feet high, of a branching character, forming as many as ten stalks from a single root stalk. Peas large and of fine quality.

Qt. 20c. Pk. 75c. Bu. \$2.50.

IMPROVED STRATEGEM.—Height, 2 1/2 feet. A large wrinkled Blue Pea of excellent quality; very long, large filled pods. More regular in its growth than the ordinary Strategem, and every way superior.

Qt. 20c. Pk. \$1.00. Bu. \$3.50.

HORSFORD'S MARKET GARDEN.—Height, 2 1/2 feet. A medium early wrinkled variety, highly recommended.

Qt. 20c. Pk. 75c. Bu. \$2.50.



CHAMPION OF ENGLAND.—Height, 4 feet. An old favorite, rich flavored and very productive.

Qt. 20c. Pk. 75c. Bu. \$2.25.

FORTY FOLD.—An improvement on the Champion of England.

Qt. 20c. Pk. 75c. Bu. \$2.50.

TELEPHONE.—Height, 3 to 4 feet. Large wrinkled seeds; pods large and well filled.

Qt. 20c. Pk. 85c. Bu. \$3.00.

TELEGRAPH.—Resembles the Telephone in every respect, except they are a deeper shade of green. Pods are very attractive in appearance.

Qt. 20c. Pk. \$1.00. Bu. \$3.25.

GRIFFITH'S CANNING.—This new Pea, which we introduced last year, is unsurpassed for canning purposes. It is medium early, with a vigorous vine, bearing a great profusion of pods closely packed with Peas of excellent flavor. The small size and fine flavor of the Pea, in addition to its great productiveness, makes it specially desirable for canners. One canner took two bushels on trial last year and has ordered fifty bushels for this season; height, 3 1/2 feet.

Qt. 20c. Pk. 75c. Bu. \$2.50.

DWARF WHITE MARROWFAT.—Best stock. Height, 3 1/2 to 4 feet. Standard market variety.

Pt. 10c. Qt. 15c. Pk. 50c. Bu. \$1.40.

IMPROVED SUGAR MARROWS.—Height, 3 1/2 feet. Grows a strong vine, bears in abundance large, filled pods. The truckers' favorite.

Qt. 20c. Pk. 50c. Bu. \$1.65.

MELTING SUGAR—Edible Pods.—This new 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 five feet, bears a profusion of very large, broad, handsome, light green (nearly white) pods, which are generally found in pairs, and are so brittle that they snap without any strings. Sweet and tender, and is cooked like wax beans.

Pt. 15c. Qt. 25c. Pk. \$1.25.

TALL GRAY SUGAR.—Edible pods; cooked in the pods same as Snap Beans.

Pt. 15c. Qt. 25c. Pk. \$1.50.

DWARF GRAY SUGAR.—Edible pods.

Pt. 15c. Qt. 25c.



GARDENER'S FAVORITE.—Height, 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. 10c. Qt. 20c. Pk. 90c. Bu. \$3.25.

FRENCH CANNER.—Height, 3 1/2 feet. The celebrated Pea used in France by the canners. It is wonderfully prolific, bearing an abundance of long pods containing seven to nine Peas of excellent flavor.

Qt. 20c. Pk. 50c. Bu. \$1.50.

THE ADMIRAL.—A very desirable new variety, medium early and very productive, and of good flavor.

Qt. 20c. Pk. 65c. Bu. \$2.00.

FIELD PEAS.

Market Prices.—Write for Quotations.
SOUTHERN BLACK-EYE COW PEAS.
BLACK COW PEAS. CANADA FIELD.

RHUBARB, OR PIE PLANT.

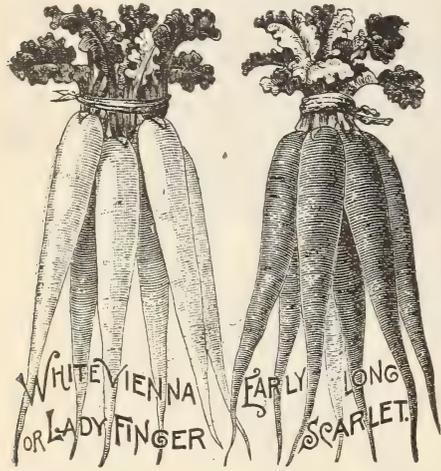
Sow in April, in drills one inch deep and one foot apart. When plants are large enough, thin to ten inches apart and cultivate. In the fall or following spring transplant into deep rich soil three feet apart each way.

Pkt. 10c. Oz. 15c. 1-4 lb. 45c. Lb. \$1.50.

RADISH

For an early supply sow in hot-bed, in February. For a successive supply sow from middle of March to September. Radishes thrive best in a 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.



WHITE VIENNA, or LADY-FINGER RADISH. This is unquestionably the finest long white Radish. Of most handsome shape; in color is 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. 1-4 lb. 15c. Lb. 40c.

LONG SCARLET RADISH (American 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 imported Long Scarlet, as generally sold.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 30c.

EARLY SCARLET, or BRUSSIAN 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. 1-4 lb. 20c. Lb. 50c.

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. 1-4 lb. 15c. Lb. 40c.

FRENCH BREAKFAST.

Of oval form, color scarlet, white tipped.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

EARLIEST WHITE TURNIP.—For forcing. This and the Red Turnip bunch together very nicely.

Pkts. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

EARLIEST RED TURNIP

Turnip shaped, skin red; for forcing.

Pkt. 5c. 1-4 lb. 15c. Lb. 40c.

EARLY ROUND DARK RED (Forcing.) A most desirable variety.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

WHITE BOX. Perfectly round, smooth skin, pure white, free from any sharpness or bitterness. A remarkably quick grower, with top, for forcing it is in every way superior.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.

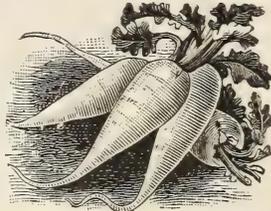
WHITE STRASBURG.—This is becoming one of the most popular summer sorts, it is of handsome tapering shape, skin pure white very tender.



Pkts. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

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

Pkts. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.



WHITE STRASBURG.

WHITE OLIVE.—Quite salable in market. Pkt 5c. oz. 10c. 1-4 lb. 20c. lb. 50c.

SCARLET OLIVE-SHAPED.—A showy, half-long variety of pretty shape, and bunches beautifully. Pkt. 5c. Oz. 10c. 1-4 lb. 20c. 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. 1-4 lb. 20c. Lb. 50c.

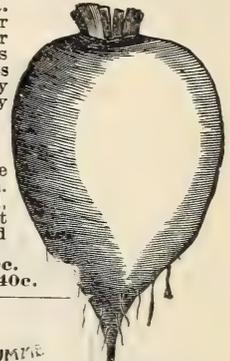
LARGE WHITE SUMMER.

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.

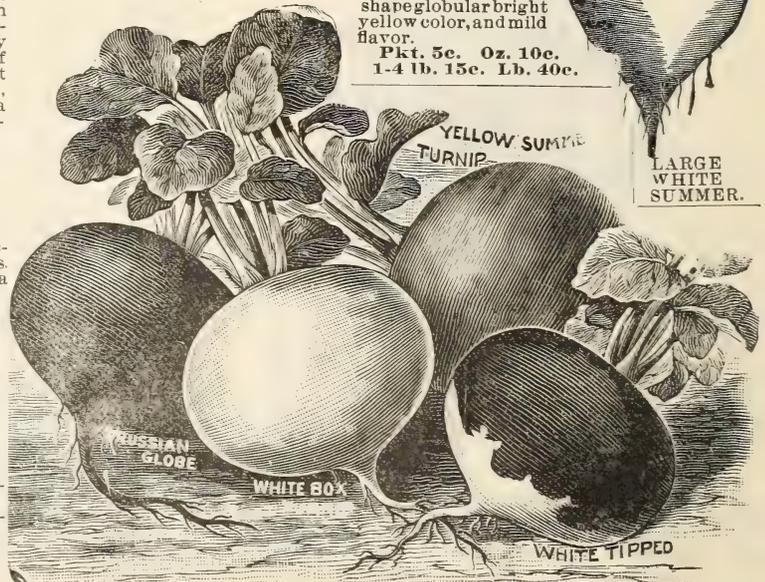
Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 30c.

GOLDEN GLOBE.—The best summer Radish. Slow to run to seed, shape globular bright yellow color, and mild flavor.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.



LARGE WHITE SUMMER.



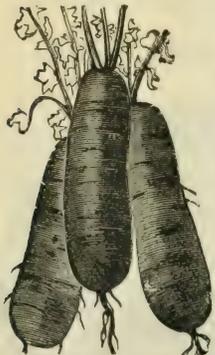
WHITE DELICACY.

An excellent summer variety; an improvement on the White Strasburg, being earlier, more evenly shaped, and smaller topped; grows into full size and perfect shape during the hottest weather. A profitable market gardeners' sort. Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.

RADISH - CONTINUED

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

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.



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.
1-4 lb. 20c. Lb. 50c.

LARGE WHITE SPANISH WINTER.—Fine keeping quality.

Pkt. 5c. Oz. 10c.
1-4 lb. 20c. Lb. 50c.

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

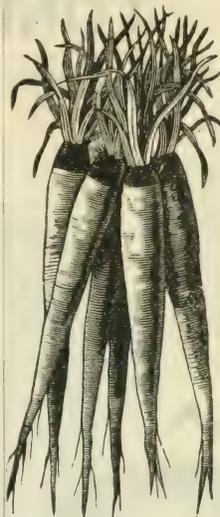
Pkt. 5c. Oz. 10c.
1-4 lb. 20c. Lb. 50c.

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

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.

WHITE CHINESE WINTER.—An excellent White Winter Radish; a good keeper.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.



SALSIFY OR VEGETABLE OYSTER.

Sow in early spring on light, rich soil in drills 14 inches apart, and thin the plants to 6 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. When cooked the flavor somewhat resembles the oyster, and is a good substitute for it.

LARGE WHITE.—The old, well-known variety.

Pkt. 5c. and 10c.
1-4 lb. 25c.
Lb. 75c.

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. and 10c. Oz. 15c. 1-4 lb. 30c. Lb. 90c.

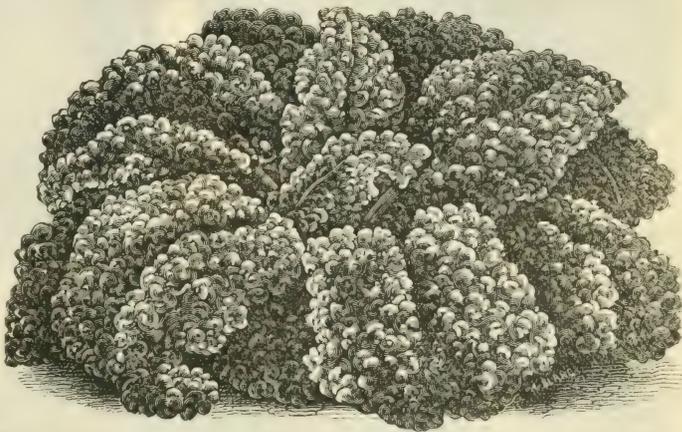
GRIFFITH & TURNER CO.'S

Extra Curled American Grown

SAVOY SPINACH.

This is grown specially 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. 1-4 lb. 10c. Lb. 25c.



SPINACH.

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.

VICTORIA SPINACH.—This new Spinach comes to us with the highest recommendations from the growers. The foliage is heavy, broad, dark green leaves being of the true Savoy appearance, and of the finest quality.

Pkt. 5c. 1-4 lb. 10c. Lb. 20c.

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

Pkt. 5c. 1-4 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. 1-4 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. 1-4 lb. 10c. Lb. 20c.

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 SCALLOPED.—A desirable and marketable sort. Best known and most productive of all the summer sorts.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

SUMMER CROOK NECK, EARLY.—Fine flavor; a desirable table sort.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

WINTER CROOK NECK.—Flesh red, fine flavor; largely grown for winter use.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

BOSTON MARROW.—For autumn use. Fine for pies or baking.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 40c.

HUBBARD. Fine and desirable for winter use.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 50c.

VEGETABLE MARROW.—Pkt. 5c. Oz. 10c. 1-4 lb. 25c. Lb. 75c.

TOMATO.

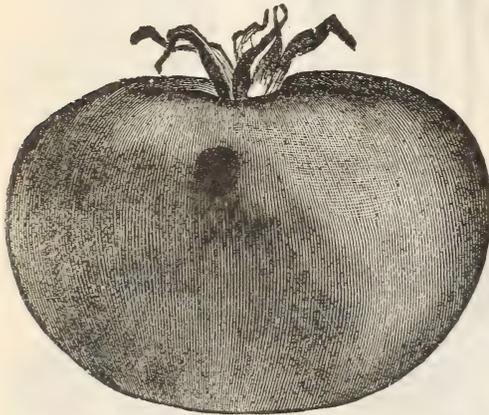
BEWARE OF CHEAP TOMATO SEEDS. saved in canning houses, as it is sure to be a mixture of different sorts. We take special care in growing our Tomato Seeds. We have the seed stocks selected carefully each

year, and the crops are inspected by us during the period of growth and maturity of fruit, and we are thus prepared to offer our customers seed of the first quality.

For early fruit sow the seed in March or April, in the hot-bed 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 hot-bed 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 win-

dow 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 plants 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.



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. 20c. 1-4 lb. 40c.
Lb. \$1.25.

PRIZETAKER.—A very desirable early sort, large, of handsome shape, and deep crimson color, with a light tinge of purple.

Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 40c.
Lb. \$1.25.



QUEEN.—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 solid and weighty as our **WORLD'S FAIR**.

Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 40c.
Lb. \$1.25.



NEW STONE.—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); is an excellent shipper; fine for canning; a good keeper; not subject to rot.

Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 40c.
Lb. \$1.25.

FAVORITE.—This is a large, perfect-shaped Tomato. One of the best for either canning or market purposes.

Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 40c.
Lb. \$1.25.

ACME.—Of superlative merit, early, medium-size, shape slightly oval, smooth and of a pink-purple color.

Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 40c.
Lb. \$1.25.

ATLANTIC PRIZE.—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. 1-4 lb. 50c.
Lb. \$1.50.

DWARF CHAMPION.—Plant grows stiff and upright, and may be planted closer than other varieties; bears throughout the entire season. The fruit resembles the Acme, and is smooth and attractive in appearance.

Pkts. 5c. and 10c. Oz. 25c. 1-4 lb. 50c.
Lb. \$1.75.

PONDEROSA.—A remarkably large and heavy-fruited Tomato, deep red in color; flesh very thick, solid and of excellent quality.

Pkt. 10c. Oz. 35c. 1-4 lb. \$1.00.

IMPERIAL.—This new variety is highly recommended by leading growers. The originator claims it to be much earlier than any other; a beautiful, symmetrical and meaty Tomato.

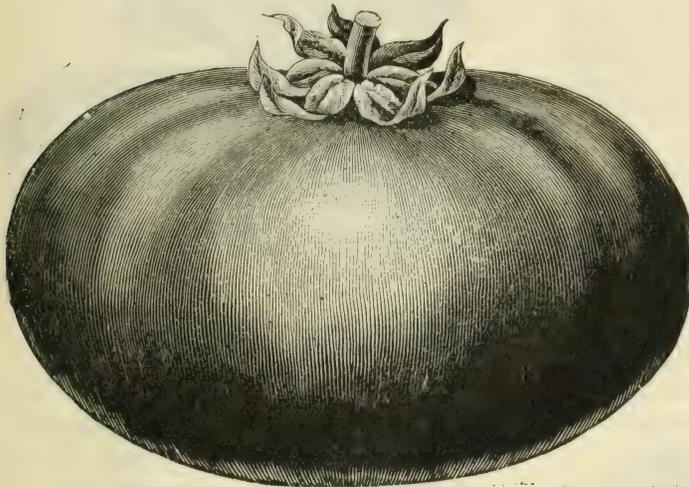
Pkt. 10c. Oz. 25c. 1-4 lb. 65c. Lb. \$2.00.

CRIMSON CUSHION.—In shape and size this resembles the Ponderosa; color is deep red.

Pkt. 10c. Oz. 35c. 1-4 lb. \$1.00.

GRIFFITH & TURNER CO.'S

WORLD'S FAIR TOMATO.



This new Tomato, which we introduced a few years ago, is constantly gaining friends wherever known, and deservedly so, because of its many good qualities. Our sales of seed of this sort have increased each year far beyond our expectation. It is without exception one of the best for Cannery, Market Gardeners or private use, because of its solidity, symmetrical shape, handsome bright red color, uniformity of ripening and freedom from rot. Its shipping and keeping qualities are unexcelled. The gentleman who superintends the growing of this seed for us says: "I desire to call especial attention to this stock; it is particularly solid and of fine flavor, the fruit is good size, smooth and certainly attractive. I venture to say, without fear of contradiction, that your Tomato will bear off the palm for quality and flavor in the hands of impartial judges. Parties around here who saw some of the fruit said they had never seen any better Tomato. We could get any number of testimonials to bear us out in all we say about this excellent Tomato."

**Pkts. 5c. and 10c. Oz. 20c.
1-4 lb. 50c. Lb. \$1.50.**

NOTICE.—Because of the well-known superior quality of this splendid Tomato, and the increasing demand for the seed, other parties are cataloguing a Tomato under the

same name. In order to protect those who want the pure article **WE GIVE NOTICE** that we shall only sell the **WORLD'S FAIR TOMATO** in sealed packages.

PARAGON.—Here we have a variety—the perfection of a Tomato—large solid, smooth and handsome, deep red color. It is superb. No praise can be too high.

**Pkts. 5c. and 10c.
Oz. 20c. 1-4 lb. 40c.
Lb. \$1.25.**

ROYAL RED.—A new Tomato, much resembling the Favorite in form and color. A good main crop variety.

**Pkts. 5c. and 10c.
Oz. 20c. 1-4 lb. 40c.
Lb. \$1.25.**

PRIZEWINNER TOMATO.—

In this new sort we have the prince of market Tomatoes. In color somewhat resembling the Beauty, but much larger, very solid, ripens early, and with us was one of the best keepers we have seen; as an early Tomato it is first class, selling for the highest market price. It is also well adapted for a late crop. It is smooth and uniform in shape, and in quality it cannot be surpassed.

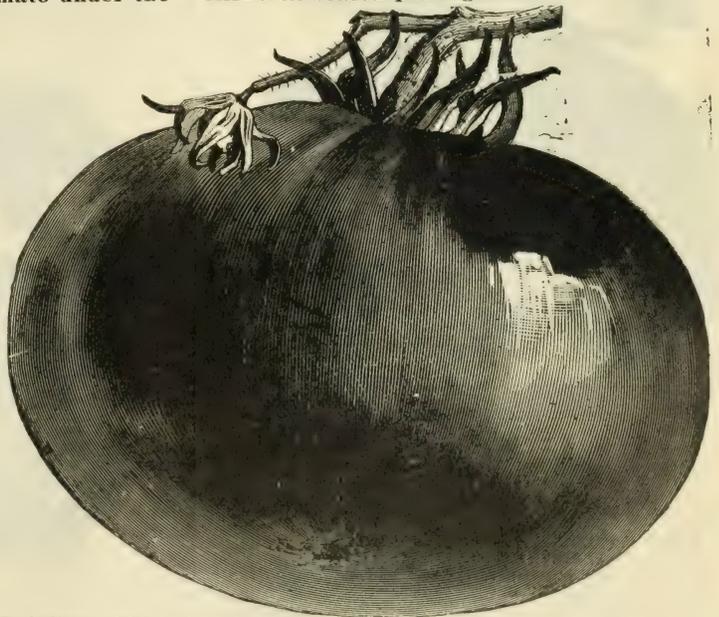
**Pkts. 5c. and 10c.
Oz. 20c. 1-4 lb. 40c.
Lb. \$1.25.**

TOMATO HONOR BRIGHT.—We believe this to be a grand acquisition to the list of Tomatoes. Its chief peculiarities are its solidity; changes of color the fruit undergoes during development: first it is light green, then an attractive waxy-white, then lemon, changing to red; it is one of the longest keeping varieties and of excellent quality; if picked in the early stage they can be stored in a cool place and will keep from one to four weeks.

Pkt. 10c. Oz., 30c. 1-4 lb. \$1.00. Lb. \$3.50.

GOLDEN QUEEN, or SUNRISE.—Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 60c.

PEARSHAPED RED.—Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 60c.



B. B. TOMATO—Brinton's Best.

We have secured Headquarters' stock of this excellent and popular new variety; it is one of the leading sorts for second early and late use; the fruit is large, handsome, and a splendid keeper. A great favorite with Cannery and Truckers.

**Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 50c.
Lb. \$1.50.**

PEAR-SHAPED YELLOW.—Used for preserves and pickles.

Pkts. 5c. and 10c. Oz. 20c. 1-4 lb. 60c.

TURNIP

For early use, sow the small sorts as soon as the ground can be worked in the spring, in drills fourteen inches apart, the Rutabagas thirty inches. As the seed is very fine, it should be covered, but slightly, excepting in very dry weather. Select light, and if possible, new 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.

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

Pkt. 5c. 1-4 lb. 20c. Lb. 50c.

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

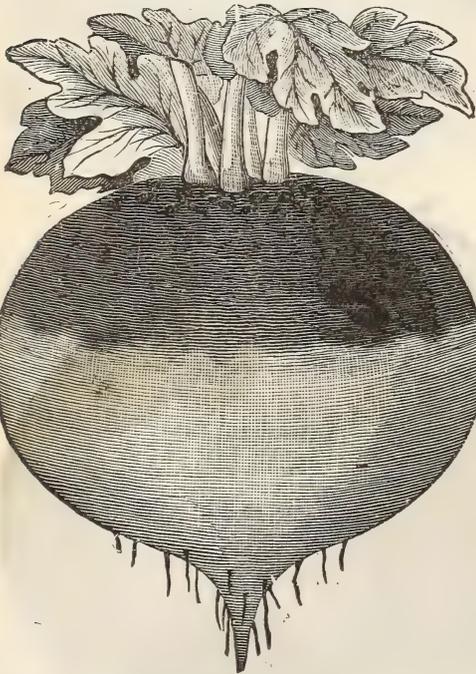
Pkt. 5c. 1-4 lb. 10c. Lb. 30c.

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

Pkt. 5c. 1-4 lb. 15c. Lb. 40c.

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

Pkt. 5c. 1-4 lb. 10c. Lb. 30c.



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 preceding and quite as early as the Flat Red Top. Very few market gardeners will have any other kind.

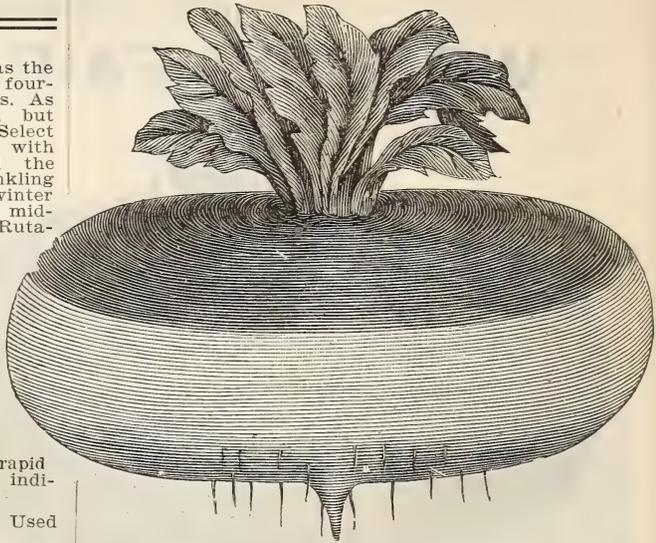
Pkt. 5c. 1-4 lb. 10c. Lb. 30c.

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

Pkt. 5c. 1-4 lb. 10c. 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. 1-4 lb. 10c. Lb. 30c.

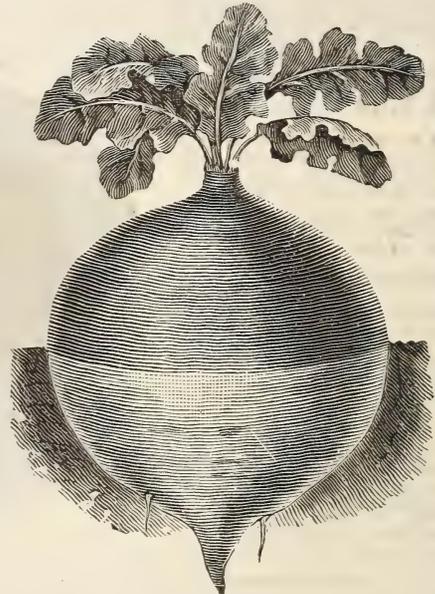


EARLY RED TOP FLAT.—Fine, sweet, mild; rapid grower; very early and popular.

Pkt. 5c. 1-4 lb. 10c. Lb. 30c.

RUTABAGA, or SWEDE TURNIP.

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.



RUTABAGA.

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. 1-4 lb. 10c. Lb. 30c.

YELLOW RUTABAGA.—1-4 lb. 10c. Lb. 25c. (If Turnip is wanted by mail, add 10c. per lb. for postage.)

SWEET AND POT HERBS.

A little collection of Sweet Herbs is a treasure to the cook and nurse. A small place in the garden will give all the herbs needed in any family, and care should be taken to harvest them properly. This should be done on a dry day before they come into full bloom, then dried quickly and packed closely, entirely excluded from the air. Sow in spring in shallow drills, one foot apart, and when well up thin out or transplant to a proper distance apart.

- ANISE.**—Pkt 5c. Oz. 20c.
- BASIL.**—Pkts. 5c. and 10c. Oz. 20c.
- BENE.**—Used medicinally.
Pkt. 5c. Oz. 20c.
- BORAGE.**—Excellent for Bees.
Pkt. 5c. Oz. 15c.
- CARAWAY.**—Pkt. 5c. Oz. 15c.

- CHERVIL.**—Pkt. 5c. Oz. 25c.
- CHICKORY.**—Pkt. 5c. Oz. 10c.
- CORIANDER.**—Pkts. 5c. and 10c. Oz. 15c.
- DILL.**—Pkt. 5c. Oz. 10c. 1-4 lb. 20c. Lb. 70c.
- LAVENDER.**—Pkt. 5c. Oz. 20c.
- MARJORAM.**—Pkt. 5c. Oz. 20c. 1-4 lb. 50c.
- FENNEL (Sweet).**—Pkt. 5c. Oz. 10c. 1-4 lb. 25c.
- ROSEMARY.**—An aromatic Herb.
Pkt. 5c. Oz. 30c.
- SAGE (American).**—Pkts. 5c and 10c. Oz. 20c. 1-4 lb. 60c. Lb. \$2.00.
- SUMMER SAVORY.**—Pkts. 5c. and 10c. Oz. 15c.
- THYME (Broad-leaved English).**—Pkts. 5c. and 10c. Oz. 25c. 1-4 lb. 75c.

VEGETABLE ROOTS.

- ARTICHOCCES, JERUSALEM.** — Pk. \$1.00. Bu. \$3.00.
- ASPARAGUS ROOTS.**—(See page 3).
- HORSE RADISH ROOTS.**—Doz. 20c. Per 100, 75c. Per 1,000, \$6.00.
- RHUBARB ROOTS.**—15c. each. Doz. \$1.50.

PLANTS.

We will not ship Plants C. O. D. Shipments at purchasers risk.

- CABBAGE**—40c. per 100. 500 for \$1.25. \$2.00 for 1000.
- TOMATO.**—40c. per 100. 500 for \$1.25. \$1.75 for 1000.
- CELERY.**—50c. per 100. 500 for \$1.50. \$2.50 for 1000.
- EGG PLANTS, PEPPER, etc.**

== CORN, WHEAT, RYE. ==

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 seven to ten feet high, does not exhaust soil so much, and will stand drought better than a large stalk, and will yield five to ten bushels per acre more than any other Corn generally planted.
Qt. 10c. Pk. 40c. Bu. \$1.25. Five bu. \$5.00.

MARYLAND WHITE. The most productive and showy White Corn; makes splendid meal.
Qt. 10c. Pk. 40c. Bu. \$1.25. Five bu. \$5.00.

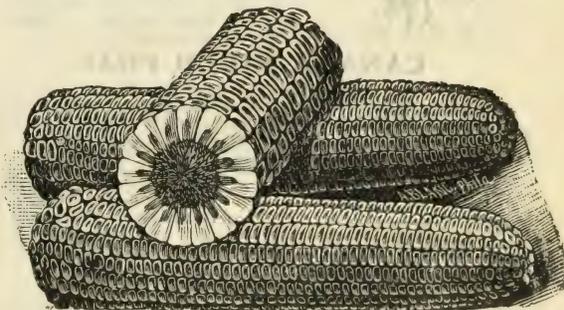
CHESTNUT GROVE YELLOW CORN. This Corn was grown on Chestnut Grove Farm, Baltimore County, and the average yield from the whole crop was 18 1/2 barrels to the acre. The ears are large, deep, medium-size grain, and of beautiful color.
Qt. 10c. Pk. 40c. Bu. \$1.25.

CHESTNUT GROVE WHITE CORN.—Like the yellow, this is a most excellent variety.
Pk. 40c. Bu. \$1.25.

EARLY LEAMING.—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. 10c. Pk. 40c. Bu. \$1.25.

GOLDEN BEAUTY.—A large, broad-grained Yellow Corn, with ears of perfect shape and very small cob. The richness of color and the quality of the grain make it a very superior variety.
Qt. 10c. Pk. 40c. Bu. \$1.25. Five bu. \$5.00.

THE 100-DAY BRISTOL.—The largest eared, earliest Yellow Dent Corn in cultivation. Since its introduction this Corn has grown in popularity each season, and is now planted largely, both in the Northern and Southern States. The grain is a light golden yellow, large and broad; the cob is small considering the size of the ear. The ears grow an average of about a foot in length, and the growth of Fodder is immense.
Qt. 10c. Pk. 40c. Bu. \$1.25. Five bu. \$5.00.



IMPROVED MARYLAND YELLOW DENT.

BLUNT'S PROLIFIC.—Remarkably prolific, producing from three to five good-sized ears on a stalk and growing very large fodder; is frequently used for ensilage.
Qt. 10c. Pk. 40c. Bu. \$1.25. Five bu. \$5.00.

HICKORY KING.—The largest grained and smallest cobbled pure White Dent Corn in cultivation; ripens medium early; well adapted to planting on thin ground.
Qt. 10c. Pk. 40c. Bu. \$1.25.

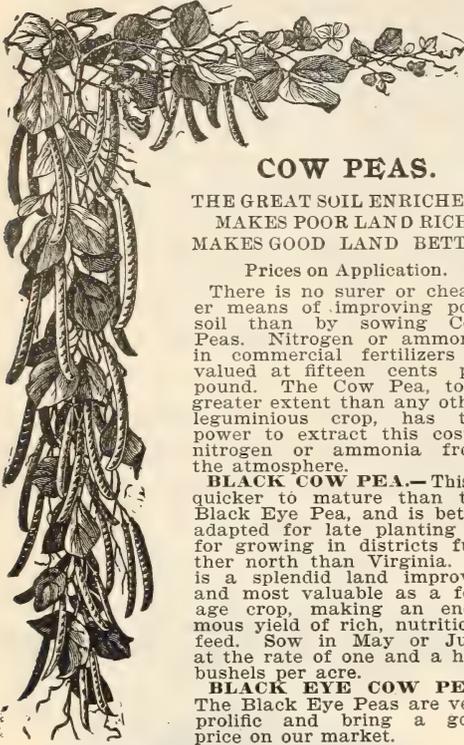
EARLY WESTERN YELLOW.—This is an excellent sort, and may be planted after peas are taken off, and make a good crop.
Pk. 40c. Bu. \$1.25

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

WHEAT AND RYE.

Write us August 1st for special prices on Seed Wheat and Rye for Fall Sowing.

FARM SEEDS.



COW PEAS.

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

Prices on Application.

There is no surer or cheaper means of improving poor soil than by sowing Cow Peas. Nitrogen or ammonia in commercial fertilizers is valued at fifteen cents per pound. The Cow Pea, to a greater extent than any other leguminous crop, has the power to extract this costly nitrogen or ammonia from the atmosphere.

BLACK COW PEA.—This is quicker to mature than the Black Eye Pea, and is better adapted for late planting or for growing in districts further north than Virginia. It is a splendid land improver and most valuable as a forage crop, making an enormous yield of rich, nutritious feed. Sow in May or June at the rate of one and a half bushels per acre.

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

CANADA FIELD PEAS.

These are a most popular and satisfactory forage and hay crop. Sown in February, March or April, with a small quantity of oats, they make a large yield of forage, greatly relished by all kinds of stock. Cures easily, making a splendid hay.

Sow one to one and a half bushels per acre broadcast, with half a bushel of oats. Cut for hay before the Peas mature. Per peck, 40 cents; bushel, about \$1.25. Write for special prices if a quantity is required.

DWARF ESSEX RAPE.

DWARF ESSEX RAPE is considered indispensable by the sheep and cattle farmers of Great Britain, and is fast coming into use in this country on account of its rapid growth, being ready to feed in ten weeks from sowing, and producing twenty-five to thirty tons or green forage to the acre. It grows to a height of three feet and covers the surface so densely as to smother out all weeds and to kill quack and other objectionable grasses. It can be sown all through the season, being perfectly hardy, withstands drought, and will produce a crop in any soil by sowing broadcast at the rate of five pounds to the acre, or in drills or rows two feet apart at the rate of three pounds per acre. While unequaled as a pasture for sheep, as a fattening food for all kinds of live stock, it is without a rival in point of cheapness or effectiveness.

Lb., by mail, 20c. By express or freight, 5 lbs., 50c. 50 lbs. and over, 7c. per lb.
If wanted by mail, add 8c. per lb. for postage.

KAFFIR CORN.

(Red or White.)

One of the best things offered of late years for a forage plant. The heads contain small white seeds which make an excellent flour. They are greedily eaten by horses and cattle, and make excellent food for poultry, either fed in the grain or ground and cooked. Use four to five pounds to acre.
Lb. 10c. 12 lbs. 75c. 100 lbs. \$5.00.

OATS.

(Thirty-two pounds to the bushel.)
CLYDESDALE.—A very early and productive variety of extraordinary weight.

Per Bu. (32 lbs.) \$1.00.

WHITE RUSSIAN.—Per bu. 90c.

WELCOME.—An excellent variety, very productive and heavy.

Per bu. (32 lbs.) 80c.

CHOICE BLACK OATS.—Per bu. (32 lbs.) 75c.

GOOD SEED OATS.—Unnamed varieties.

At Market Prices.

WINTER OATS.

These are quite distinct from Spring Oats, and are now being quite largely grown in Southern Pennsylvania, New Jersey, Delaware, Maryland and Virginia. They are sown in the fall.

At Market Prices.

SEED BUCKWHEAT.

JAPANESE.—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.

At Market Prices.

SILVERHULL.—This improved variety is much better than the old sort. It is in bloom longer; matures sooner, and yields double the quantity per acre. The husk is thinner, the corners less prominent, and the grain of a beautiful light grey color.

At Market Prices.

FLAX SEED.

Lb. 10c. 6 lbs. 25c. Bu. \$2.00.

FLAX-SEED MEAL.—For horses and cattle.

10c. per lb. 6 lbs. 25c. In quantities at market prices.

EARLY AMBER SUGAR CANE.

The saccharine matter of this early and productive variety is of the first quality, and produces a fine sugar or syrup. It grows ten or twelve feet high, and yields large crops of fodder, which is relished by all kinds of stock. It will produce two cuttings during the summer. Culture same as corn. Sow three or four quarts per acre.
Lb., by mail, 20c. Pk. \$1.00. Bu. (56 lbs.) \$2.50.

MANSHURY SPRING BARLEY.

This is the most productive variety we know, and having grown it ourselves, can recommend it.
By Express or Freight—Pk. 50c. Bu. \$1.25.

NEW BEARDLESS SPRING BARLEY.

The earliest barley known; if sown about the 20th of March, will ripen about the 23th of June. The straw is about the height of the common barley, but better, and will stand up on any land. Sow as early as you can; frost does not hurt it. Being beardless, it handles as easy as oats, and makes a stronger feed.
By Express or Freight—Pk. 40c. Bu. \$1.25.
Bags 20c.

Your seeds give much better satisfaction than those we buy here. I had the finest Cabbages I have ever seen from your seed.
HENRY CORBIN,
Aug. 1898. Louisiana.

SPECIAL PRICES TO GARDENERS AND FARMERS, IN LARGE QUANTITIES.

CLOVER SEEDS, MILLET, ETC.

763



LUCERNE 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 15 pounds to the acre.

Lb. 15c. By mail, 25c.
8 lbs. \$1.00. \$10.00 for 100 lbs.

ALSIKE, or SWEDISH CLOVER. (Trifolium Hybridum.)

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 6 pounds per acre when used alone.

Lb. 15c. By mail, 25c. 8 lbs. \$1.00.
100 lbs. \$10.00.



WHITE DUTCH CLOVER.

(*Trifolium repens.*)

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.
5 pounds... \$1.00
100 lbs... \$20.00.



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 hair-balls to form in the animal's stomach.

This popular Clover Seed is grown successfully in Delaware, Maryland and Virginia. The yield of fodder is immense. Its growth is very rapid and luxuriant, and, therefore, it is valuable as a fertilizer to turn under. It is fast becoming a popular crop in the Middle States and the South, and is finding its way into Pennsylvania and the West. 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. Ten or fifteen pounds should be sown to the acre, according to quality of ground.

10c. per lb. By mail, 20c. \$5.00 per 100 lbs.

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. Market prices.

MILLET.

GERMAN, or GOLDEN MILLET.— An improved variety, medium early, growing three to five feet high. The heads are closely condensed, though the spikes are very numerous. This is the best and most productive Millet to grow. Weight, per bushel, 50 pounds.

Market Prices.

HUNGARIAN MILLET (*Panicum Germanicum*).

—Early and productive, growing two to three feet high, with an abundance of foliage and slender heads. Weight, per bushel, 48 pounds.

Market Prices.

COMMON MILLET.— Weight, per bushel, 50 pounds.

Market Prices.

TARES, or 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 two to three bushels to acre. Sow in spring, while ground is cool and moist, or in early autumn.

Lb. Sc. Bu. of 60 lbs. \$3.00.

TARES, or WINTER VETCHES (*Vicia villosa*).— 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 one to two bushels per acre.

Per lb. Sc. Per bu. of 60 lbs. \$3.50.

BROOM CORN.

IMPROVED EVERGREEN.— This is the favorite sort; has a fine brush, yields well, and keeps green. Height, 8 to 9 feet.

Qt. 20c. Pk. 75c. Bu. \$2.50.

RUSSIAN SUN FLOWER.

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. The leaves make splendid fodder, much relished by all kinds of stock. The seed is good feed for horses, and yields a fine quality of oil.

Lb. 10c. By mail, 15c. 4 lbs. 25c.
\$5.50 per 100 lbs.

OUR SPECIAL GRASS MIXTURE

FOR HAY AND PERMANENT PASTURES.



OUR PERMANENT HAY AND PASTURE GRASS

Is prepared specially to meet the demand for a mixture that will be desirable either for cutting for Hay or to 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.—14 lbs. to the bu., 2 bu. to the acre. Per bu. \$2.00. 10 bu. for \$17.50.

MIXTURE FOR LOWLAND.—14 lbs. to the bu., 2 bu. to the acre. Per bu. \$2.00. 10 bu. for \$17.50.

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 pasturage when once established. It is much the best, however, to combine other grasses with it, for either lawn or pasturage. Sow in the spring or fall.

(Fancy, triple-cleaned).
Bu. (14 lbs.) \$1.75.
Choice \$1.50 per bushel.

NOTICE.—Beware of cheap Canada Blue Grass, as it is full of Thistle.

ORCHARD GRASS.—(*Dactylis Glomerata*.)—One of the most desirable grasses for pastures. Sow under orchards or in shady places. It grows rapidly, thrives in sandy land, and does not suffer from close feeding. Choice Western seed. Not to be confounded with the cheap grasses mixed with rye grass.

Bu. (14 lbs.). Fancy Recleaned Seed, \$1.50 bu.
TIMOTHY.—The best quality of Timothy Seed at market prices.



HERD, or RED TOP GRASS (*Agrostis vulgaris*.)—A valuable native permanent grass, as a mixture in meadows, pastures or lawns, grows best in moist situation. 10 lbs. to the bushel; 2½ bushels to the acre.

As usually sold per bushel, 75c.
Choice Extra Heavy Seed, per bushel, \$1.00.
Fancy Clean Seed, — lb. 100 lbs. —.

CREEPING BENT GRASS (*Agrostis Stolonifera*.)—Succeeds in nearly any situation, and is good for lawns or pastures; best adapted for moist situations. About 20 lbs. to the bushel; 2 1-2 bushels to the acre.

Per lb. 35c., postpaid. Per bu. \$3.75.

ENGLISH RYE GRASS.—A nutritious permanent grass for meadows and pastures.

Qt. 20c. Bu. (24 lbs.), \$2.00.

MEADOW FOXTAIL (*Alopecurus pratensis*.)—An excellent early grass for permanent pasture; medium moist or dry land is best.

WOOD MEADOW GRASS (*Poa nemoralis*.)—An early nutritive grass; thrives well under trees.
Lb. 35c.

CRESTED DOG'S TAIL (*Cynosurus cristatus*.)—Valuable for dry hard soils and hills. Two to three bushels to the acre.
Lb. 45c.

SHEEP FESCUE (*Festuca Ovina*.)—A grazing grass for dry, sandy and rocky situations. 2 to 3 bushels to the acre.

Lb. 25c. Bu. (12 lbs.) \$2.00.

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.



GROUNDS OF BALTIMORE COUNTRY CLUB.

Sown with G. & T. Co.'s Special Grasses.

The above view, taken from the September issue of "GOLF," represents a portion of the beautiful Golf grounds of the Baltimore Country Club, sown with Griffith & Turner Co.'s Special Grasses. These grounds have been the admiration of thousands of visitors. 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.

Griffith & Turner Co.'s Golf Link Mixture, Bushel, \$2.50; 10 Bushel Lots, \$2.25.

PUTTING GREEN MIXTURE.

Peck, \$1.25; Bushel, \$4.50.

THE MYSTIC LAWN FOUNTAIN.

Throws either whole or half circle by simply turning thumb piece. The sled enables the sprinkler to be moved about the lawn by the hose. The wings will not choke or clog, and revolve with very little pressure.

Price, 75 cents.

LYONS' AUTOMATIC LAWN FEEDER.

It is a neat device, attached to the hose nozzle, which dissolves a stick of concentrated fertilizer, diffusing it through as much water as will pass through garden hose in about one hour. Complete outfit, consisting of one holder and 12 of the food cartridges, prepaid, to any address, on receipt of \$1.00.

Extra Food Cartridges, in boxes of 24, for 50 cents, or prepaid for 75 cents.

April, 1898.

Gents—The seeds I purchased from you give me very much satisfaction.

J. L. ZUHLCKE, Lawsonia, Md.

West Windham, N. H., August, 1898.

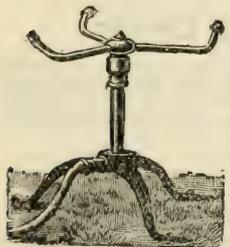
Gents—The early peas from you are a sight to behold! so satisfactory.

D. K. MARSHALL.

CRESCENT LAWN SPRINKLER

WORKS BEAUTIFULLY.

This Sprinkler is compactly and strongly made with phosphor bronze bearing, and will cover a surface of 48 feet in diameter. As it has a free and unobstructed channel there is no danger of clogging with dirty water, and therefore it fills the requirements of users of such articles better than the more expensive and larger sprinklers, and will accomplish the same results. The top and

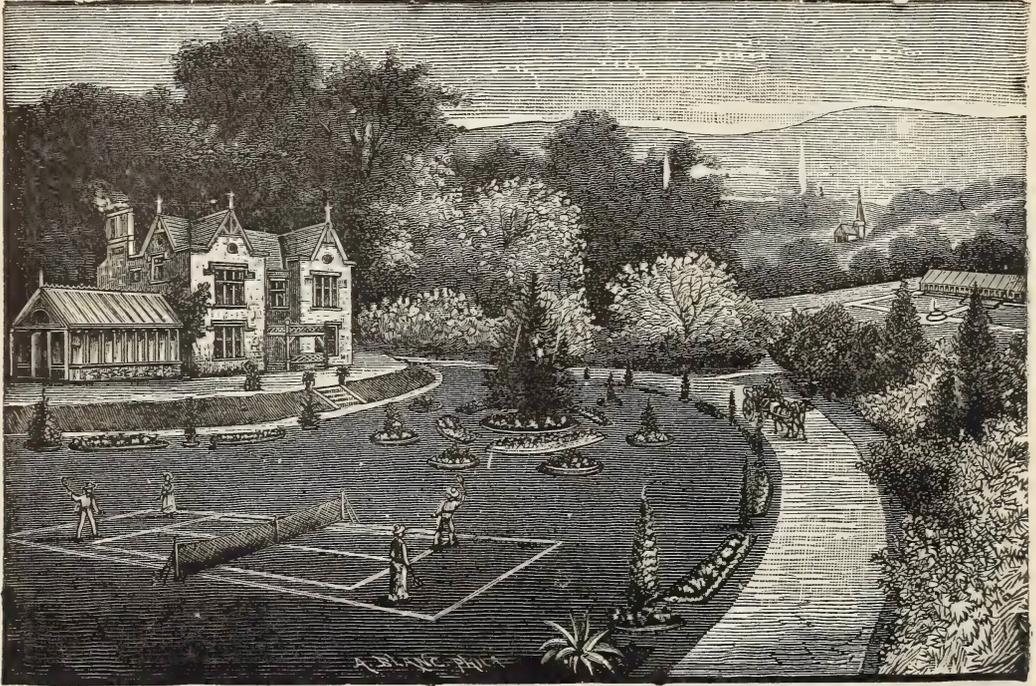


arms are brass, full nickel plated standard, the base and legs are iron, handsomely japanned.

Price, 12 inches high, . . . \$1.50
 " 24 " " 4 arms, \$2.00

ECLIPSE SPRINKLER.

This is the cheapest and one of the most effective sprinklers made. The distribution of water is perfect. Price, 20 cents; by mail, 30 cents.



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 a suburban home 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 also adapted to the small grass plots of city homes. Pint, 10 cents; quart, 20 cents; half peck, 75 cents; peck, \$1.15; bushel of 20 pounds, \$4.00.

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. Quart, 20 cents; peck, \$1.00; bushel of 16 lbs., \$3.00.

White Dutch Clover.

Thrives most everywhere. The best to sow with lawn grass, and valuable to sow with Blue Grass for permanent pastures. 1-4 lb., 10 cents; lb., 25 cents. By mail, 35 cents lb.; 5 lbs. for \$1.00; 100 lbs. for \$20.00.

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 less prices.

SPECIAL PRICES TO GARDENERS AND FARMERS, IN LARGE QUANTITIES.

CHOICE FLOWER SEEDS.

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

ORDER BY NUMBERS.

1. AGERATUM, MIXED.— Suitable for beds, and especially nice for cut flowers and bouquets.
Packet, 5c.

10. ALYSSUM. — 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.
Packet, 5c.



11. ALYSSUM (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.
Packet, 5c.



ALYSSUM.

20. AMARANTHUS, MIXED.—Showy blooming plants, with long racemes of curious looking flowers, and brilliant foliage; half hardy annuals.
Packet, 5c.

21. AMARANTHUS, TRI-COLOR (Joseph's Coat).— Red, yellow and green foliage; 2 feet.
Packet, 5c.



LOVE LIES BLEEDING.

22. AMARANTHUS CAUDATUS (Love Lies Bleeding).—

Graceful and handsome flowers of blood-red hue.
Packet, 5c.

25. ASTER.—Choice mixed varieties; well known and beautiful flowers; should be in every garden.
Packet, 5c.

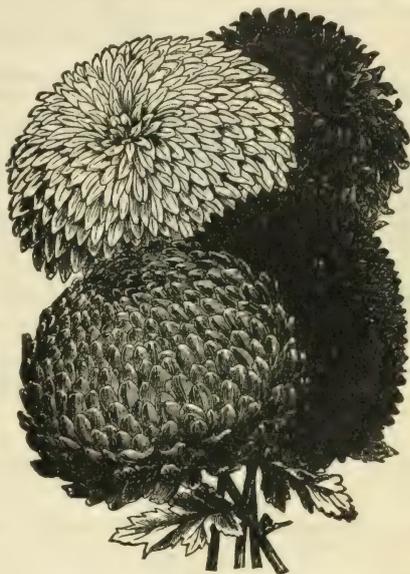
26. ASTER, GERMAN.— All colors and shades of the best German sorts. Sow seed early and transplant to rich soil.
Packet, 5c.

30. VICTORIA ASTER.— 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 4 inches across; height, 15 to 18 inches.
Packet, 10c.

27. ASTER, TRUFFAUT'S PERFECTION.— A very favorite class; thrifty, upright growers; flowers large, almost perfectly round, with incurved petals. The florists' preference; 11-2 to 2 feet.
Packet, 10c.



VICTORIA ASTER.



28. PRINCESS SNOWBALL.—This is an entirely distinct variety of Asters. The flowers are pure white, and are formed of short, thickly set imbricated petals, there being about 25 to 30 on a plant.
Packet, 10c.

29. MIGNON ASTER.— 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, 10c.

31. COMET ASTER.— This class of Asters have 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, 10c.

32. DWARF CHRYSANTHEMUM FLOW-ERED ASTER.— Grow 9 inches high, surpass all the dwarf varieties in size of flowers.
Packet, 10c.

33. SEMPLE'S BRANCHING ASTER.— A choice strain of American-grown Asters, which has, by careful selection, been brought to a high degree of excellence.
Mixed Colors, 10c.

34. SEMPLE'S BRANCHING ASTER (White). Very choice.
Packet 10c.



COMET ASTER.

FLOWER SEEDS THAT GROW.

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

35. BACHELOR'S BUTTON, or BLUE BOTTLE (*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; 2 feet. **Packet, 5c.**

40. DOUBLE BALSAMS, CAMELIA FLOWERED (*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, 5c.

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

Packet, 10c.

45. CANDYTUFT, MIXED.—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, 5c.

46. CANDYTUFT, WHITE.—Treated and used same as the mixed.

Packet, 5c.

50. CALCEOLARIA, DWARF.—This is a magnificent ornamental plant for green-house or conservatory; bearing in profusion pocket-shaped flowers of all colors, spotted and blotched in the most fanciful fashion.



Packet, 25c.

53. CALENDULA, DOUBLE.—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, 5c.

55. CANNA, MIXED (Extra Choice).—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 5c.

60. CANTERBURY BELLS, SINGLE MIXED (*Campanula*).—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 5c.

61. CANTERBURY BELLS, DOUBLE MIXED.

Packet 5c.

CARNATION.—(See Pinks.)

65. CASTOR OIL BEAN (Ricinus).—Ornamental plants of stately growth and picturesque foliage; fine for lawns massing or center plants for ribbon beds; half hardy annuals.

Packet 5c.

68a. CENTAUREA GYMNOCARPA.—Fine cut silver-gray foliage; 1½ feet. **Packet, 5c.**

68. CENTAUREA CANDIDISSIMA. Silver white, leaves broadly cut. **Packet, 5c.**

69. CENTROSEMA GRANDIFLORA.—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.—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. CHRYSANTHEMUM FRUTESCENS (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.



76. CINERARIA HYBRIDA (Choicest Mixed).—Very attractive, free blooming plants, producing large and brilliant flowers.

Packet, 25c.

77. CINERARIA HYBRIDA, NANA GRANDIFLORA.—Semi-dwarf, large flowered variety, splendid strain. **Packet, 25c.**

75. CINERARIA (Dusty Miller).—Fine for bedding, ribbon beds and margins; prized for their beautiful downy silvery foliage; half hardy perennials; 2 feet. **Packet, 5c.**

80. CLARKIA, MIXED.—An old favorite hardy annual plant, growing in any garden soil, and producing freely its cheerful flowers early in the season; 1-1½ feet. **Packet, 5c.**

85. COCKSCOMBS (Celsia Cristata).—Very popular annuals of the easiest culture, highly ornamental for decoration of the green-house, drawing room and garden.

Half hardy annuals.

Packet, 5c.

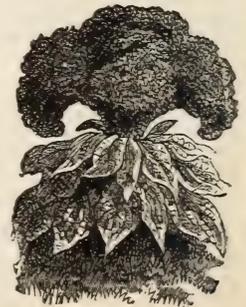
86. COCKSCOMBS, GLASGOW PRIZE.—Immense showy dark crimson combs. 10 cts.

88. COWSLIP.

Packet, 10c.

89. COLEUS.—Very choice plants with richly colored foliage of maroon, green, crimson, yellow, etc.

Packet, 25c.



COCKSCOMB.

SPECIAL PRICES TO GARDENERS AND FARMERS, IN LARGE QUANTITIES.

CHOICE FLOWER SEEDS.

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

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

Packet, 5c.

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

93a. COREOPSIS LANCEOLATA—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.

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.



COSMOS.

94. TINTS OF DAWN COSMOS.—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.

***95d.—NEW MARGUERITE COSMOS.**—One of the prettiest and daintiest varieties imaginable.

Packet, 10c.

- 95a. COSMOS, PINK.—5c.
- 95b. " WHITE.—5c.
- 95c. " CRIMSON.—5c.
- 95d. " MIXED.—5c.

DIANTHUS.—(See Pinks.)

96. CYCLAMEN—PERSICUM—GIGANTEUM, MIXED.—Charming plants with beautiful foliage and rich colored fragrant flowers.

Packet, 25c.



(DAISY.)

97. DAISY, MIXED.—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.

98. DAISY LONGFELOW.—This is a very pretty large double pink variety.

Packet, 10c.

99. DAISY SNOWBALL.—An unusually large flowered variety, and produces very double, pure white flowers.

Packet, 15c.

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.—Large showy single flowers.

Packet, 5c.

100a. CACTUS DAHLIA.—A most curious and desirable variety of many colors.

Packet, 10c.

100½ DIANTHUS—ORIENTAL BEAUTIES.—A magnificent strain of new large flowering Dianthus, from Japan. The colorings and markings are rich beyond description; very dainty and pretty with their charming ruffles and frills. Hardy and perpetual bloomers.

Packet, 10c.

101. ETERNAL FLOWER (Helichrysum).—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).—A highly ornamental golden yellow foliage plant, unexcelled for bedding. Hardy perennial; 1½-2 feet.

Packet, 5c.

105. FORGET-ME-NOT (Myosotis).—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. FOXLOVE (Digitalis).—A handsome and highly ornamental, hardy perennial plant of stately growth, fine for shrubberies and other half-hardy places; 3 feet.

107. GERANIUM (New Zonale).—A grand strain of Geraniums; containing all shades of colors.

Packet, 10c.

109. GAILLARDIA.—Very attractive plants, producing a profusion of bloom the entire summer and autumn. Half-hardy annuals.

Packet, 5c.

110. GILIA, MIXED.—Very pretty dwarf plants, early, free blooming, fine for massing and rock work; hardy annuals.

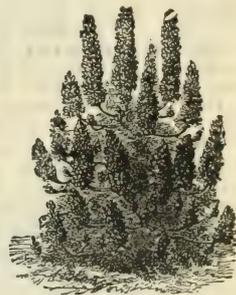
Packet, 5c.

111. GLOXINIA.—Produces in great profusion large bell-shaped flowers of the richest variety of colors.

Packet, 25c.



HELIOTROPE.



LARKSPUR.

112. HELIOTROPE.—These are deliciously fragrant flowers, remaining in bloom a long time; fine for pot culture or bedding; half-hardy annuals.

Packet, 5c.

115. HOLLYHOCK, MIXED (Althea Rosea).—This is one of the oldest inhabitants of our gardens, now ranks as one of the finest autumn flowers.

Packet, 5c.

116. HOLLYHOCK DOUBLE WHITE.—Largely used by florists.

Packet, 10c.

120. LARKSPUR (Delphinium).—One of our most showy and useful plants, possessing almost every requisite for adornment of the garden.

Packet, 5c.

121. LARKSPUR EMPEROR.—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. Annuals.

122. MIXED VARIETIES.—5c.
123. CRYSTAL PALACE COMPACTA.—Rich deep blue. The finest for bedding.

Packet, 10c.

FLOWER SEEDS THAT BLOOM.

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

125. MARIGOLD, DOUBLE AFRICAN.—A well-known free flowering plant, of easy culture, with rich and beautiful double various colored flowers.

Packet, 5c.

126. MARIGOLD, DOUBLE FRENCH.—Of compact habit, with numerous bright, showy flowers. Very fine.

Packet, 5c.



MARIGOLD.



FOUR O'CLOCK.

130. MARVEL OF PERU, or FOUR O'CLOCK (Mirabilis Jalapa).—Very pretty annual of vigorous growth. The flowers are brilliant, singularly mixed and varied on the same plant; 2 feet.

Packet, 5c.

133. MESEMBRYANTHEMUM CRYSTAL-INUM (Ice Plant). 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, 5c.

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.

Packet, 10c. Oz. 50c.

138. MIGNONETTE VICTORIA.—A splendid, new, compact, growing variety of dense pyramidal habit, 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.—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.

Packet, 10c. Oz., 75c.

140. GOLDEN MACHET MIGNONETTE.—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.

Packet, 5c. Oz., 50c.

142. NASTURTIUM-DWARF. The dwarf variety of Nasturtium are 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.

Packet, 5c. Oz. 15c.

143. DWARF NASTURTIUM-AURORA.—Blush white and salmon, blotched with garnet.

Packet, 5c. Oz., 20c.



144. DWARF NASTURTIUM - BEAUTY.—Bright scarlet, striped with yellow.

Packet, 5c. Oz., 20c.

145. DWARF NASTURTIUM—Empress of India.—Very dark foliage, with deep crimson flowers.

Packet, 5c.

146. DWARF NASTURTIUM—GOLDEN KING. Brilliant yellow.

Packet, 5c. Oz., 20c.

147. DWARF NASTURTIUM—KING OF TOM THUMBS.—Brilliant yellow flowers, blotched with maroon, measuring three inches across.

Packet, 5c. Oz., 20c.

148. DWARF NASTURTIUM—RUBY KING.—Light ruby red.

Packet, 5c. Oz., 20c.

149. DWARF NASTURTIUM - CLOTH OF GOLD. Golden yellow foliage, light scarlet flowers.

Packet, 5c. Oz. 25c.

150. KING THEODORE.—Dark scarlet maroon, dark foliage.

Packet, 5c. Oz., 20c.

151. CRYSTAL PALACE GEM.—Sulphur, maroon, spot.

Packet, 5c. Oz., 10c.

TALL NASTURTIUM.—(See 310.)

153. OXALIS.—Pretty little half-trailing annuals for hanging baskets. Mixed annual sorts.

Packet, 10c.

155. PANSY, HEARTSEASE (Viola Tricolor). 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 inches.

Packet, 5c.

156. PANSY, GIANT TRIMARDEAU.—Remarkable for the extra large size of the flower and an endless variety of beautiful shades.

Packet, 10c.



GRIFFITH & TURNER'S MIXED PANSIES.

157. PANSY, G. T. & CO.'S EXTRA BLOTCHED.—This is the richest mixture ever sent out, containing the finest blotched varieties.

Packet, 15c. Two packets, 25c.

158. PANSY (Bugnot's Superb Blotched).—A celebrated strain of extra large size, beautiful colors, with 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, 25c.

159. PANSY (Cassier's Strain).—A beautifully flowered species, formed by five petals, each petal having a distinct blotch.

Packet, 25c.

SPECIAL PRICES TO GARDENERS AND FARMERS, IN LARGE QUANTITIES.

FLOWER SEEDS THAT GROW.

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

165. PETUNIA.—Favorite, half hardy perennials, 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.



PETUNIA.

166. SINGLE-FRINGED MIXED PETUNIA.—Large flowers, four to five inches across, of every hue, each flower being beautifully fringed.

Packet, 25c.

167. DOUBLE PETUNIA.—About 30 per cent. will produce double flowers.

Packet, 25c.

168. PETUNIA. — Double-Fringed Mixed.—The flowers of this sort being double, together with being fringed, are very beautiful.

Packet, 50c.

175. PHLOX DRUMMONDII.—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, 5c.



PHLOX DRUMMONDII.

176. PHLOX DRUMMONDII (Nana Compacta).—Very fine mixed. This new strain is of dwarf, compact habit, and makes desirable pot plants; also excellent for ribbon lines and massing.

Packet, 10c.

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, 10c.



PINK—CARNATION.

181. PINK — CARNATION (Riviera Market, or Gillaud).—This is the only variety that will produce yellow 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, 25c.

182. PINK—CARNATION (Marguerite).—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 will bloom indoors in winter in pots.

Packet, 10c.

185. PINK — CHINA.—(*Dianthus Chinensis*).—Free bloomers, and a general favorite for bouquets; also a useful bedding plant.

Packet, 5c.



CHINA PINK.

188. PINK — HEDDEWIGII.—Beautiful double flowers in a great variety of colors, with fringed white edges.

Packet, 5c.

189. PINK—JAPAN.—Beautiful double flowers, mixed, of various colors, with the outer edges fringed and nearly white.

Packet, 10c.

195. PORTULACA (Mexican Rose).—One of our 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, edgings or rock work.

Packet, 5c.

196. DOUBLE PORTULACA.—Packet, 10c.

THE BEST FLOWER SEEDS.

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

200. POPPY-CARNATION (Papaver) A showy and easily cultivated hardy annual, with large brilliant colored flowers, growing freely in any garden soil.

Packet, 5c.

201. POPPY—PEONY FLOWERED.—A magnificent species, large, showy double globular flowers, resembling Peonies in shape.

Packet, 5c.

202. SHIRLEY POPPY. 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, 5c.



TULIP POPPY.

203. TULIP POPPY.—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, 10c.

204. ICELAND POPPIES, MIXED.—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, 10c.

205. POPPY—IRRESISTIBLE.—A rare and beautiful Poppy, with immense flowers. Color, an exquisite rose.

Packet, 10c.

210. ENGLISH PRIMROSE (Primula Vulgaris).—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, 10c.

211. CHINESE PRIMROSE (Primula Fringed).—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, 25c.

213. SCABIOSA—GRANDIFLORA.—A wonderful improvement over the old variety, bears beautifully formed flowers, 3 inches in diameter.

Packet, 10c.

215. SCARLET SAGE (Salvia Splendens).—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; 3 feet.

Packet, 5c.



CHINESE PRIMROSE.

216. SCARLET SAGE—CLARA BEDMAN (Bonfire).—The finest Salvia ever introduced.

Packet, 5c.

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, 5c.

225. SNAPDRAGON (Antirrhinum). One of our most useful and showy border plants. The recently improved varieties have large, finely shaped flowers of brilliant colors. Perennial.

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, 15c.

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, 15c.

235. SUNFLOWER (Helianthus).—Remarkable for the stately growth, size and brilliancy of their flowers, making a very good effect among shrubbery and for screens. The seed is also good for feeding poultry.

Packet, 5c.

237. SWEET ROCKET (Hesperis).—Very pleasing, early spring flowering, profuse blooming plants, with fragrant flowers, growing freely in any light, rich soil.

Packet, 5c.

CHOICE FLOWER SEEDS,

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



240. SWEET WILLIAM (Dianthus Barbatus). 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 perennial.

Packet, 5c.

243. SWEET VIOLET.—D deservedly much in demand, because of their profusion of bloom and delicate sweet odor.

Packet, 10c.



245. VERBENA.— One of the most popular and useful bedding plants. Verbenas delight in sunny situation, rich soil and thorough cultivation.

Packet, 5c.

246. VERBENA.— Mammoth. Packet, 5c.

247. VINCA.— Small bushy plants, producing in quantities round single flowers the first season, if sown early. They may be potted and kept all winter.

250. VINCA ROSA.— Rose with dark eye. Packet, 5c.

251. VINCA ALBA.— White, with crimson eye. Packet, 5c.

255. WALLFLOWER, DOUBLE.— 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.

258. ZINNIA ELEGANS (Youth and Old Age). 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, 5c.

259. ZINNIAS CURLED AND CRESTED.— New, odd and superb. Petals twisted, curled and crested into fantastic contortions and graceful forms. A magnificent variety of colors.

Packet, 5c.

260. ZINNIA—DOUBLE POMPON.— Long, cone-shaped flowers. Very fine.

Packet, 5c.



Zinnia Elegans.



Zinnia Double Pompon

CLIMBING VINES.



270. BALSAM APPLE (Momordica).— Very curious trailing vines, with ornamental foliage, fruit golden yellow; when ripe opens, showing the seeds and its brilliant carmine interior.

Packet, 5c.

272. BALLOON VINE (Love in a Puff).— A rapid growing plant; succeeds best in a light soil and warm situation; flowers white; half-hardy annual.

Packet, 5c.

275. CANARY BIRD FLOWER (Peregrinum). With yellow, canary-like flowers; very ornamental and beautiful foliage; half-hardy annual.

Packet, 5c.

276. COBEA SCANDENS.— A beautiful, rapid-growing climber, with handsome foliage and large bell-shaped flowers; blue; half-hardy perennial; grows 20 to 30 feet high.

Pkt. 10c. Oz. 40c.

CHOICE FLOWER SEEDS.

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

278. CYPRESS VINE, RED (*Ipomea Quamoclit*).— 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.— Usually grown with the red, making a handsome effect. **Packet, 5c.**

282. MAURANDIA (*Barclayana*).— 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.



285. MIXED GOURD (*Cucurbita*).— Rapid growing, interesting plants, with ornamental foliage and varieties of singular shaped fruit; annual. **Packet, 5c.**

286. NEST EGG GOURD.— White fruit, shaped like an egg. Used as a substitute for nest eggs. **Packet, 5c.**

287. DISH CLOTH GOURD.— **Packet, 5c.**

288. DIPPER GOURD.— **Packet, 5c.**

290. MOCK ORANGE.— Fruit shaped like an orange. **Packet, 5c.**

295. HEAVENLY BLUE IPOMEA.— The flowers are in large airy clusters and of that lovely blue so rarely seen. Flowers 4 to 5 inches across. **Packet, 10c.**

300. MORNING GLORY (*Convolvulus Major*). One of the most free flowering and rapid growing plants in cultivation, thriving in almost any situation; The beauty and delicacy of their brilliant flowers are unsurpassed; hardy annuals.

301. NEW BRAZILIAN MORNING GLORY.— **Packet, 10c.**

302. JAPANESE MORNING GLORY.— Charming, large and brilliant flowers; vines growing 30 to 40 feet high. **Packet, 10c.**

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, 5c.**

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.**

320. SCARLET RUNNERS.— Very handsome climbing Beans, with bright scarlet flowers. **Packet, 5c.**

326. SMILAX.— Charming climber for greenhouse or window gardens. **Packet, 5c.**

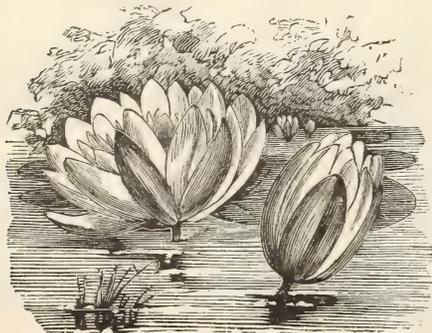
HARDY WATER LILIES.

NYPHAEAE ODORATA.— The well-known, fragrant pond lily. Its lovely, pure-white flowers, so common in some localities, is worthy of a place among the choicest varieties where cultivated. All *Nymphaeae*s of this type are useful for naturalization.

15c. each. Four for 50c. \$1.25 per dozen.

NYPHAEAE ODORATA GIGANTEA.— This is a superb variety, and should be in every collection, similar in all respects to *N. Odorata*, but the flower is very large and full. A Southern variety of the *N. Odorata* type.

15c. each. Four for 50c. \$1.25 per dozen.



NYPHAEAE ODORATA MINOR.— A pretty little variety of our native pond lily, equally as hardy and fragrant, but the flowers and leaves are much smaller.

15c. each. Four for 50c. \$1.25 per dozen.

IRIS KÆMPFERI.



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. Many of these flowers measure from ten to twelve inches in diameter, and almost rival the orchids in their rich colorings and markings.

Each, 15c. Four for 50c.

SWEET PEAS FOR 1899.

The wonderful advance made in the size, substance and variety of colors in Sweet Peas in the past few years, have placed them in the first rank among flowering plants. But few plants are easier grown and grown in masses of separate colors or in mixture their beauty and fragrance cannot be surpassed.

We have made the selection of choice varieties of Sweet Peas a specialty and offer in our list an assortment that cannot be excelled.

CULTURE.—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 four to six inches deep. In this sow the seed and cover two 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.

Classified Varieties as to Color.

If you want White, select from numbers 356, 373, 402, 387. Pinks, 350, 371, 391, 420, 427. Orange and Salmon, 395, 406. Scarlet, 377, 386. Maroon, 360, 423. Yellow, 400. Striped varieties, 352, 411, 424. Pink or Red, with white wings, 357, 358.

350. ALICE ECKFORD.— Standard rich creamy, tinted pale pink; Wings pure white.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

351. APPLE BLOSSOM.— Bright rose and pink; beautiful.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

352. AURORA.— The color effect is gorgeous both standard and wings are flaked and striped on a white ground with bright orange salmon.

Pkt. 5c. Oz. 10c. 1-4 lb. 25c.

356. BLANCHE BURPEE.— Pure white; very large flower.

Pkt. 5c. Oz. 10c. 1-4 lb. 25c.

357. BLANCHE FERRY.— Popular Color standard brightest pink; keel and wings white.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

358. BLANCHE FERRY.— Extra Early.—10 days earlier.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

359. BLUSHING BEAUTY.— Flowers of largest expanded form, perfect in shape, and of very good substance. Color, a delicate, soft pink.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

360. BOREATTON.— A very fine dark Pea, with bold, stout flowers; color, deep maroon.

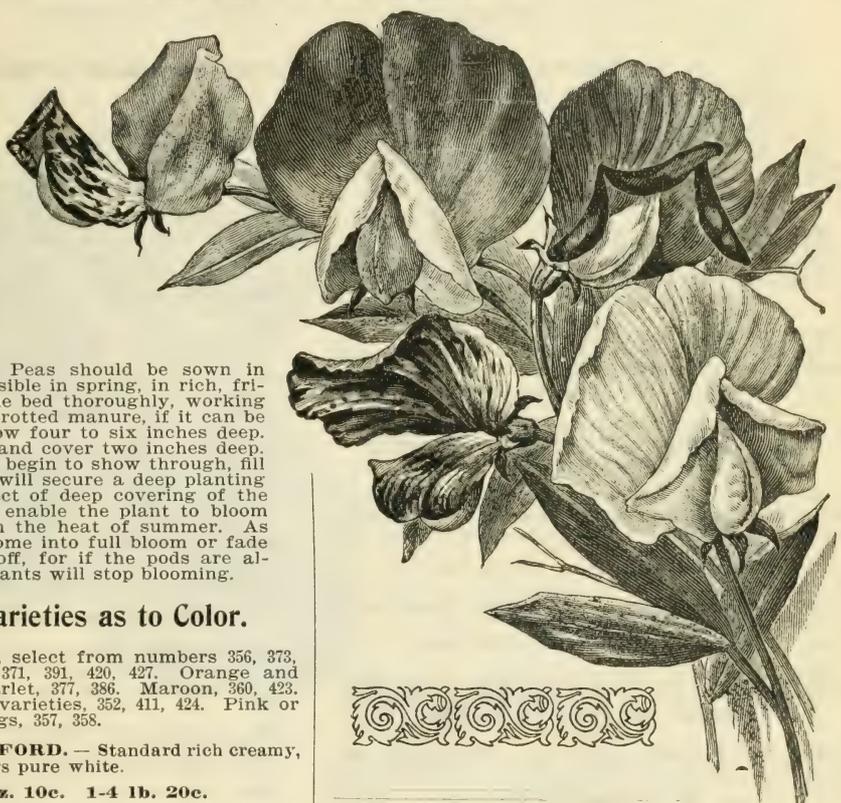
Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

361. BUTTERFLY.— New and ranks among the very best of this unrivaled class of plants. Color, lavender blue, shading into white on the lower petals.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

366. COUNTESS OF RADNOR.— Delicate lavender, Wings delicately striped with rose.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.



371. ELIZA ECKFORD.— Standard rose; Wings delicately striped with rose

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

371. EMILY ECKFORD.— Standard heliotrope, suffused with blue; wings deep blue.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

373. EMILY HENDERSON.— Very early; color, pure white; fragrance, most delicious. The plants are robust, branchy, of compact habit; flowers, large, broad and round, and its abundance of bloom is phenomenal.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

377. FIREFLY.— Intense, glowing crimson.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

381. GAIETY.— Standards white, striped and flaked with rosy lilac; wings delicate blush.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

382. HER MAJESTY.— Beautiful, soft rosy pink.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

385. INDIGO KING.— A dark maroon standard and clear indigo-blue wings.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

386. INVINCIBLE SCARLET.— Flowers of intense and brilliant scarlet pink, of the largest size.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

387. INVINCIBLE WHITE.— Produces very large flowers of fine form and pure white color.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

391. KATHERINE TRACEY.— Soft brilliant pink.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

SWEET PEAS.

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

394. LADY BEACONSFIELD.—The standards are of light salmon pink, wings, pale primrose-yellow.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

395. 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.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

396. LOTTIE ECKFORD.—New and a free bloomer, color lavender, shaded with pink and white. Very handsome.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

400. MRS. ECKFORD.—Color a peculiarly delicate, shaded primrose yellow. Decidedly pretty.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

401. MRS. GLADSTONE.—On opening, the flowers are buff and soft pink, changing to a beautiful pale blush. Standard pink, deepening in color at the base, and wings flesh tinted.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

402. MRS. SANKEY.—Black seeded. Large white flower, changing to blush.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

406. ORANGE PRINCE.—Bright orange pink, flush scarlet; wings of rich rose, veined with pink.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

409. PRIMROSE.—Distinct, as the nearest approach to yellow in Sweet Peas. Standard and wings of pale primrose yellow color.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

410. PRINCESS BEATRICE.—Flowers of a clear and beautiful carmine-rose, slightly shaded.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

411. PRINCESS OF WALES.—Color, white ground, shaded and tinged with mauve.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

412. PRINCESS VICTORIA.—Standard, dark cherry; wings, mauve pink, and slight lines of rose.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

416. QUEEN OF THE ISLES.—Scarlet mottled and flaked with purple and white.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

419. RED RIDING HOOD.—Standard and wings are a rosy pink, shading to bluish white at the calyx.

Pkt. 5c. Oz. 10c. 1-4 lb. 25c.

420. ROYAL ROBE.—Standards a rich but delicate pink, wings a soft bluish pink.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

423. STANLEY, or BLACK KNIGHT.—A deep maroon; a large and very handsome flower of the finest form and abundance.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

424. THE SENATOR.—Large flowers, shaded chocolate and bright brown, and striped on a creamy-white ground-color; mottled and blotched in every conceivable manner.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

427. VENUS.—Salmon buff; the standards delicately shaded with rosy pink.

Pkt. 5c. Oz. 10c. 1-4 lb. 20c.

430. G. & T. CO.'S EXTRA FINE MIXED.—This is a splendid mixture of our own, which includes nearly all the above varieties.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 50c.

ECKFORD'S LARGE FLOWERING MIXED SWEET PEAS.—Contains some of each of the entire list of varieties. No finer mixture is possible.

Pkt. 5c. Oz. 10c. 1-4 lb. 15c. Lb. 50c.

431. DOUBLE SWEET PEAS.—Mixed varieties.

Pkt. 5c. Oz. 10c.

CUPID DWARF SWEET PEAS.

Compact dwarf plants not over five or six inches high, covering a circumference of about 18 inches, hugging the ground, with no tendency to either climb or trail. The innumerable short branches form a perfect tuft of green foliage, which soon becomes studded with flowers of good form and substance, and nearly as large as those of the climbing Sweet Peas. For edgings, low beds and for pot culture they are unique and wonderfully pretty.

WHITE 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. Oz. 50c.**

PINK CUPID.—Pure white flowers. **Per packet, 5c. Oz. 20c.**

LARGE FLOWERING DWARF FRENCH CANNAS.

THE BEST BEDDING PLANT FOR THE GARDEN.

IF WANTED BY MAIL, ADD 15c. PER DOZEN FOR POSTAGE.



NEW CANNA ITALIA.

Few flowering plants combine so many fine qualities as the modern Canna—a race of subtropical bulbous plants, of most easy culture, rapid reproduction, and good keeping qualities. Since the distribution by M. Crozy of his results from hybridization, 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 the garden, greenhouse or sitting-room.

Two Orchid Flowered Cannas.

An entirely distinct variety.

ITALIA is of a bright orange scarlet with a very broad golden yellow border; the flowers, which are produced on massive stems, about sixteen inches long, are set well above the foliage; the foliage is large and heavy, similar to that of the *Musa Ensete*. The illustration is a true representation of its magnificent flowers.

Each, 10c. Dozen, 75c.

AUSTRIA is a counterpart of *Italia* in every way, except in the color of its flowers, which are of a pure canary yellow, with but a few traces of small reddish-brown spots in the centre of the two inside petals. The cut gives only a faint idea of the style of growth of both of these magnificent sorts.

Each, 10c. Dozen, 75c.

MADAME CROZY.—Flowers of dazzling crimson scarlet, bordered with golden yellow; a marvellous and rich combination of colors. The plant is of vigorous growth, yet very dwarf in habit, rarely exceeding four feet in height. The foliage is of rich, cheerful green, and very massive. The flowers are produced in large branching stems, which are closely set with bloom, each stem being really a bouquet in itself. It is remarkably free flowering, and can be had in bloom the year round.

Each, 5c. By mail, 10c. Dozen, 50c.

ALPHONSE BOUVIER.—This is probably the grandest and most effective Crimson Canna grown. Height, 6 feet.

Each, 5c. By mail, 10c. Dozen, 50c.

PAUL MARQUANT.—One of the most pleasing on account of its large size and entirely distinct color. Its color is of a bright salmon scarlet, passing to a rosy carmine, with a peculiar silvery lustre, which lights up the salmon very brightly; 3 to 3-1-2 feet in height.

Each, 5c. By mail, 10c. Dozen, 50c.

ADMIRAL COURBET.—Flowers large, light yellow, spotted with crimson.

Each, 5c. By mail, 10c. Dozen, 50c.

FLORENCE VAUGHAN.—The finest yellow spotted variety yet sent out; the foliage is massive and of a rich green color.

Each, 5c. By mail, 10c. Dozen, 50c.

QUEEN CHARLOTTE.—This new German sort is one of the handsomest scarlet varieties ever introduced, having a distinct golden belt around each petal.

Each, 5c. By mail, 10c. Dozen, 50c.

Dwarf French Canna.

MIXED VARIETIES.—Each, 5c. Dozen, 35c.

TALL CANNAS.—Mixed red or green foliage.

Each, 5c. Dozen, 50c.

If Cannas are wanted by mail, send 5c. additional for postage on each, or 15c for a dozen.

Tuberous Rooted Begonias.

The Tuberous-Rooted Begonias are among the handsomest of our summer-flowering bulbs. They are not grown to the extent they should be, as they require no more care than Geraniums, have as fine a range of color, and will bloom continuously throughout the summer, even when Geraniums droop through lack of moisture and fail to unfold their flowers. Planted either in the rockery or flower border, they rival the Geraniums with their rich and varied colors, ranging from the most delicate shade of yellow and salmon to the most striking crimson and scarlet.

Mixed Single, 10c. each; \$1.00 dozen.

Mixed Double, 25c. each; \$2.50 per dozen.



GLADIOLUS.

If wanted by mail, add 10c. 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 to be unexcelled as to quality.

MIXED (All Colors).—Dozen 25c. 100, \$1.25.
WHITE AND LIGHT COLORS—Dozen, 30c. 100, \$2.00.

EXTRA WHITE AND LIGHT VARIETIES.—All first-class varieties, made up largely from best-named sorts, including ten per cent. of Snow White.
10c. each. 50c. per dozen. \$3.50 per 100.

CHILDSI—MIXED.—Extra large and fine.
50c. doz. \$4.00 per 100.

When ordered by mail, add 10 cents per dozen for postage.

CALADIUMS.

(Elephant's Ear.)

One of the most effective plants in cultivation for the flower border or for planting out upon the lawn; it will grow in any good garden soil, and is of the easiest culture. To obtain the best result it should be planted where it will obtain plenty of water, and an abundance of rich compost.

Extra large bulbs, 10c. each. By mail, 15c.
Per dozen, \$1.00.
First size bulbs, 5c. each. By mail, 10c.
Per dozen, 50c.

CHRYSANTHEMUMS.

HARDY POMPONE VARIETIES.

We have a nice assortment of these at 10 cents each; \$1.00 per dozen.

TUBEROSE.

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, 5c. Doz., 25c.
\$1.00 per 100.
By mail, 35c. doz.

MADEIRA VINE ROOTS.
5c. each. 30c. doz.



CHRYSANTHEMUMS.

PRICE—15c. each. Four for 50c. \$1.25 per dozen. \$6.00 per 100. One each of the 20 varieties for \$1.75.

BELLE OF CASTLEWOOD.—A pleasing shade of shell pink.

COL. WM. B. SMITH.—A grand, deep yellow, of finest form and size.

CALLINGFORDI.—A fine shade of crimson.

EUGENE DAILLEDOUZE.—Bright, clear, yellow; extra.

GLORY OF THE PACIFIC.—A magnificent extra early pink.

GOLDEN WEDDING. The grandest golden yellow ever introduced.

H. WOODFORD. Shell or Mermaid Pink, strong stem, fine foliage.

IVORY.—Snowy white; perfect form, and early.

MAJOR BONNAFFON.—One of the best yellow.

MRS. F. BERGMAN. One of the earliest and best whites.

MISS MINNIE WANNAMAKER.—Large, clear white; very fine.

MRS. J. T. WHILDIN.—A handsome light yellow.

MAUD DEAN.—An extra large flowered variety; color, pink, almost rose.

MINERVA.—Large, vivid golden yellow.

NIVENS.—A grand snow-white variety.

MODESTO.—One of the largest and prettiest yellow varieties.

LIBERTY.—Of beautiful form; color, a clear rich yellow.

THE QUEEN.—Excels all in pure whiteness.

V. H. HALLOCK. Rosy pearl of a waxy texture.

WM. H. LINCOLN.—A magnificent golden yellow variety.

LILIES.



Lilium Auratum.

AURATUM (The Gold-Banded Lily of Japan). Immense white flowers, each petal marked with a wide gold band and spotted with maroon; very sweet fragrance and free blooming. It is considered by many the finest lily in cultivation.

Large bulbs, 15c. each. \$1.00 per dozen.
Extra large bulbs, 15c. each. \$1.25 per dozen.
 Mailed free.

LILIUM SPECIOSUM RUBRUM.— White with rose centre.
 Each, 15c. \$1.00 per dozen.

LILIUM SPECIOSUM ALBUM.— Pure white.
 Each, 15c. \$1.50 per dozen. Mailed free.



WHITE CALLA—(Ready in July).— The White Calla or Lily of the Nile is a well-known plant of easy culture, and, in winter, is one of our best winter plants. To aid profuse blooming, keep them dormant from the middle of June to last of August, re-pot in good rich soil, using a 4 to 6-inch pot, give water, light and heat in abundance, and the result will be most satisfactory.

Large bulbs, 10c. each. By mail, 15c.
Extra large bulbs, 15c. By mail, 25c.

DAHLIAS--POT GROWN.

Large Flowering.

- ARABELLA.** Primrose tip and shaded lavender.
- DANDY.**— Pure pink, striped jet black.
- ETHEL.**— Clear yellow, flaked white.
- FORGET-ME-NOT.**— Variegated.
- KING OF YELLOW.**— Pure, clear yellow.
- LA PHARE.**— Brilliant scarlet.
- A. D. LIVONI.**— Beautiful soft pink, with quilled petals.
- MADAME ZELLER.**— Yellow tip, shaded red.
- MRS. DEXTER.**— Salmon.
- NERO.**— Deep crimson maroon.
- PRINCE BISMARCK.**— Rich purple.
- PENELOPE.**— Pure white, flaked lavender.
- PERILE.**— Clear white.
- RUBY QUEEN.**— Clear ruby red.
- SOUV DE MADAME MOREAU.**— Deep red pink.
 15c. each. Six for 75c. \$1.25 per dozen.
- TWELVE SELECT CACTUS DAHLIAS for \$1.25.**
- BRONZE.**— Buff yellow, overlaid bronze.
- CLIFFORD W. BRUTON.**— The best yellow Cactus Dahlia, a clear rich yellow.
- LYNDHURST.**— Deep glowing scarlet, large and full.
- FIRE BALL.**— Clear yellow, tipped reddish pink.
- MISS JENNINGS.**— Combination of yellow, salmon and pink.
- NYPHAE.**— A beautiful delicate pink, shading to blush at centre.
- ORIENTAL.**— Rich pale salmon.

- RED AND BLACK.**— Deep wine, red margin black.
- SUNLIGHT.**— Soft pale lemon. Very fine.
- TRUE MODEL.**— Buff, overlaid with reddish bronze.
- UNIQUE.**— Pure yellow, tipped with red and blue.
- WILLIAM AGNEW.**— The grandest red Cactus Dahlia ever produced; color, rich shade of red.
 15c. each. Six for 75c. \$1.25 per dozen.

Pomponé Dahlias.

- AILLETS IMPERIAL.**— Suffused pink, tipped purple.
- CRIMSON.**— A beauty. Rich crimson.
- ELFIN.**— Pale primrose, changing to cream white.
- ELEGANTA.**— Soft pink, tipped deep pink.
- GOLDFINCH.**— Clear yellow, tipped with scarlet.
- LELIA.**— Flesh mottled, deep crimson.
- LITTLE BESSIE.**— Quilled creamy white.
- LITTLE PRINCE.**— Red tipped, mottled deep crimson.
- LITTLE DIAVOLA.**— Light pink, tipped with dark maroon.
- LITTLE HELEN.**— Pure white.
- LITTLE PET.**— Soft pink, shaded with crimson.
- LITTLE MASTER.**— Deep maroon.
- VIVID.**— Intense scarlet.
 15c. each. Six for 75c. \$1.25 per dozen.

DAHLIA ROOTS, CHOICE NAMED SORTS, 10c. each, \$1.00 per dozen.

CLIMBING ROSES.

15c. Each. Four for 50c.
\$1.25 per dozen.

CRIMSON RAMBLER.—This Rose has already made an impression as one of the grandest garden varieties introduced for years. It is of Japanese origin, and quite hardy, with strong shoots, that climb high in a season, or may be cut back into handsome bush form. The foliage is noticeably distinct and handsome, light glossy green, thick and leathery. The flowers are produced in great pyramidal panicles of brilliant crimson. As a decorative pot plant it is also strikingly effective.

YELLOW RAMBLER.—The hardiest yellow climbing Rose yet introduced. A worthy companion to the Crimson Rambler, White Rambler and Pink Rambler.

BALTIMORE BELLE.—Pale blush, shading to rose color; very double flowers in large clusters.

GREVILLEA, or SEVEN SISTERS.—Flowers in clusters, opening a light rise color, changing to pure white.

PRAIRIE QUEEN.—Bright carmine pink; full, globular flowers of fine size. A fine Rose for all sections.

TENNESSE BELLE. Blush of good size, flowers in clusters.

CHAMPNEY, PRIDE OF WASHINGTON, RUSSELLS COTTAGE, SUPERBA.



CRIMSON RAMBLER.

**POTTED
FLOWERING PLANTS.**

- PANSIES.**—75c. per dozen. By express.
- VERBENA.**—75c. per dozen.
- NASTURTIUM.**—75c. per dozen.
- PHLOX DRUMMONDII.**—75c. per dozen.
- GERANIUMS.**—\$1.00 per dozen.

PÆONIES.

These noble plants are exceedingly effective; the profusion and duration of bloom, combined with handsome massive foliage, accommodating habit, and easy culture, render them one of the most popular hardy plants grown for lawn and garden decoration, or for mingling with shrubs or herbaceous plants in borders and wild gardens.

- Double White, Each 25c. Doz. \$2.00.**
- Double Rose, Each 25c. Doz. \$2.00.**
- Double Crimson, Each 25c. Doz. \$2.00.**

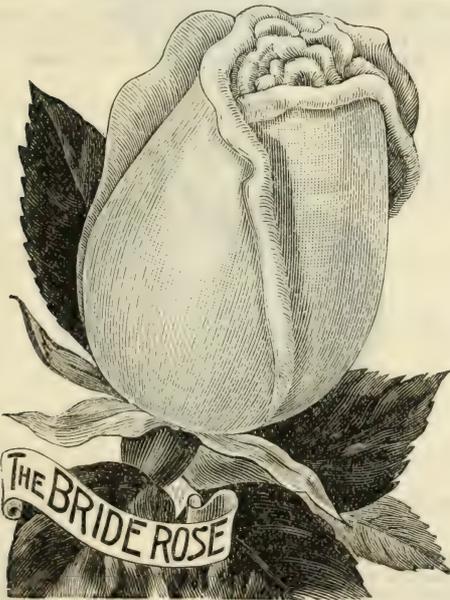
Postage extra, 5c each, if wanted by mail.

DOUBLE VIOLETS.

LADY HUME CAMPBELL.—Its excellent merit is its strong, healthy constitution. Light purple flowers.

SWANLY WHITE.—The best double white Violet.

Good plants of either of the above varieties at \$1.00 per dozen, or \$6.00 per 100.



HARDY MEMORIAL ROSE.

(Rosa Wichuraiana.)

FOR USE IN CEMETERIES.—It is difficult to conceive anything more appropriate, beautiful and enduring for covering graves and plots in cemeteries than the Hardy Memorial Rose. It creeps along the ground almost as closely as ivy, growing ten feet in one season, and forming a dense mat of very dark green, lustrous foliage.

PRICE—15c. Four for 50c. \$1.25 per doz.

== STRAWBERRY PLANTS. ==

Varieties marked "P" should have another perfect flowering sort near them.

We offer a nice stock of Strawberry plants of all the leading varieties, and at low prices, considering the quality of the stock. We can supply them at short notice, freshly dug and shipped direct from the nursery.



POT-CROWN PLANTS.

Will be ready for delivery after August 1st. Prices for pot-grown plants are from \$2.50 to \$4.00 per 100, according to variety.

OUR FAMILY COLLECTION.— This collection has been made after years of trial, and will give a continuous crop for six weeks. The following varieties are the choice ones of their respective seasons, from early to late. In the latitude of Baltimore or Philadelphia these four varieties will fruit from May 18th to July 1st.

MEEKS EARLY.— This is the earliest berry with us and is of good size, productive, and a choice table sort.

TENN. PROLIFIC.— This is a splendid berry, and is excelled by none during its season. A large berry, sweet, firm, extra bright color, a strong grower and heavy producer. It is very attractive, and of uniform size and color; ripens to the end.

BUBACH (P).— This is the standard berry wherever grown. It is very large, very dark red, sweet and an exceedingly strong grower, with very large, dark foliage. Ripens from medium to late.

GANDY.— This late berry is a vigorous grower, has large fruit of good color. Ripens after others have gone. It is fine for canning or table use, and prolongs the season of strawberries to the very latest.

Prices of above four sorts, 75c. per 100, \$4.00 per 1000. By express only. If wanted by mail, add 25c. per 100 to pay postage.

STANDARD VARIETIES.

TIMBRELL (P).— This sort, although somewhat new, has been widely advertised, and become so popular we place it with our standard sorts. Fruit is very large, of bright red or crimson color, quality of the best and decidedly sweet.

Price, per 100, 75c. 1000, \$4.00.

BRANDYWINE.— A very late large sort, one of the best for its season; a strong grower and productive.

Price, by express, 75c. per 100. \$4.00 per 1000

MARSHALL.— Medium to late in season, and berries of the largest size. This variety has taken high rank. A strong grower and very productive. Fruit ripens nearly all over, and is a dark red.

Price, per 100, 75c. 1000, \$4.00.

BEDERWOOD.— Early and of medium size; a standard sort.

Price, per 100, 75c. \$3.75 per 1,000.

DAYTON.— This is a very desirable sort on account of being early and exceedingly sweet. It ripens perfectly, and is unexcelled during its season for table use.

Price, per 100, 75c. \$3.75 per 1,000.

GREENVILLE (P).— Mid-season, size large, and one of the best we had during 1896. This variety rivals the Bubach, and should be in every garden.

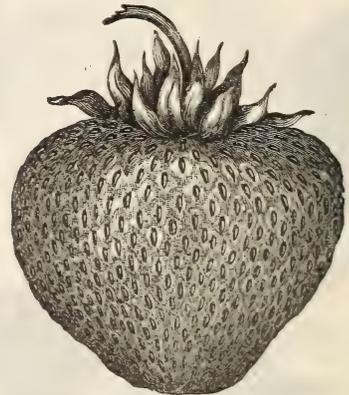
Price, per 100, 75c. \$3.75 per 1,000.

HAVERLAND (P).— Early in season, size large and quality good.

Price, per 100, 75c. \$3.75 per 1,000.

H. W. BEECHER (P).— Mid-season, size large; the color is dark red, and for productiveness is one of the best. Always plant some of this variety.

Price, per 100, 75c. \$4.00 per 1000.



JESSIE.— Mid-season; good size and productive.

Price, per 100, 75c. 1,000, \$4.00

NEW LADY FINGER.— A very long berry of beautiful appearance and very valuable because of its habit of holding good size to the end of the season. In season from medium to very late.

Price, per 100, 75c. 1,000, \$4.00

LADY THOMPSON.— Ripens in season from medium to late. This is a good sort for general planting. Vigorous and productive.

Price, per 100, 75c. 1,000, \$4.00

MICHEL'S EARLY.— Very early, ripening here about May 18th. For the first berries for table use it cannot be excelled. We can recommend this sort.

Price, per 100, 75c. \$3.50 per 1,000.

SPECIAL PRICES TO GARDENERS AND FARMERS, IN LARGE QUANTITIES.

STRAWBERRY PLANTS.

CONTINUED.

PARKER EARLE.—This is a large sort, of wonderful productiveness; size large and color very dark. On account of late ripening it should be in every garden and plantation.

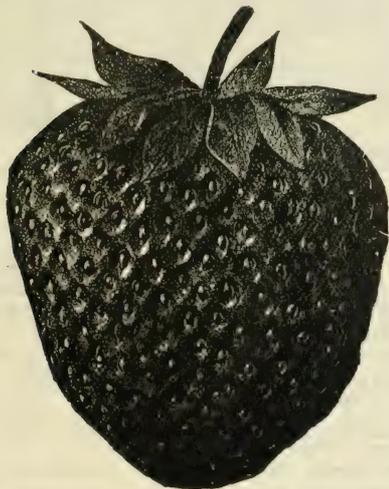
RIO.—A recent berry that is very highly recommended. Rich, glossy color, medium size, and very prolific.

SHARPLESS.—A very large berry, known by everybody; one of standard excellence, and needs no description.

SHUSTER'S GEM.—Mid-season, size medium; a standard sort.

WOOLVERTON.—Ripens in mid-season; is medium to large size. Should be in every collection.

PRICES ON ABOVE SORTS—75c. per 100.
\$3.75 per 1000.



GLEN MARY NEW. A very large variety, larger than Sharpless or any other berry. In quality it is equal to the best, and surpasses even the Crescent for productiveness in quarts of berries. In 1896 it gave 12,000 quarts to the acre during the season. At its home in Chester county, Pa., it begins to ripen about May 28th. Everyone should try this excellent variety.

\$1.00 per 100. \$5.00 per 1000.

CLYDE.—Among new varieties, possessing points of excellence, Clyde stands first on the list. Fruit large, firm and of light scarlet color.

75c. per 100. \$4.50 per 1000.

WM. BELT.—The fruit is exceptionally large, of brilliant red color, and of extra fine quality; it is a good shipper.

75c. per 100. \$4.00 per 1000.

BLACKBERRIES.

WILSON, Jr.—The largest known variety, of fine appearance, and ripens very early. Very productive and good quality. By its low, trailing habit of growth it is easily protected in winter, and well adapted on that account to cold climates.

Price, 50c. per doz. \$2.00 per 100.

KITTATINY.—A very popular sort for general planting, and still growing in popular favor, especially for family use. Very strong grower; berries large and fine flavor; exceedingly productive. Season extends from medium to very late.

Price, 50c. per doz. \$2.00 per 100.

ERIE.—Berry very large, handsome and firm, and of excellent quality.

50c. per doz. \$2.00 per 100.

LUCRETIA (Dewberry). As early as Early Harvest and as large as Wilson. Shiny jet black, melting and delicious quality, devoid of core. Plant is entirely hardy, healthy, strong grower and very productive.

Price, by express, 50c. dozen. \$2.00 per 100.

JAPAN WINEBERRIES.

This fruit is but little known, but should be in every garden. It is wonderfully productive. At this date, June 20th, our beds are one solid mass, about 3 feet high, and covered all over the top with fruit as thick as clover in blossom.

Price, \$1.50 per dozen, by express.

RASPBERRIES.



BLACK PROGRESS (Pioneer).—The best very early jet black Raspberry. Good quality, ripening with Souhegan; stronger grower and more prolific; very valuable market variety; extremely hardy.

Price, 50c. per dozen. \$2.00 per 100.
by express.

GOLDEN QUEEN.—The best yellow Raspberry. Very large, exquisite beauty, very good quality, hardy and very productive; very strong grower, and succeeds well in the South and Pacific Coast, as well as in colder climates.

Price, 50c. per dozen. \$2.00 per 100,
by express.

CUTHBERT, GREGG, OHIO AND SOUHEGAN.
—50c. per dozen. \$2.00 per 100, by express.

CURRANTS.

CHERRY.—The most popular market sort. Bunch and berry very large, bright red; bush healthy; vigorous and productive.

Price, 60c. per 1-2 dozen. \$1.00 per dozen.
\$5.00 per 100, by express.

FAY'S PROLIFIC.—The best red Currant. Strong grower, wonderfully productive, and comes to bearing young; fruit large, bright red, and good quality.

Price, 75c. per 1-2 dozen. \$1.25 per dozen,
by express.

WHITE GRAPE.—The largest and best white Currant. Bunch large; berries large, handsome, translucent and excellent quality. Strong grower and very productive.

Price, 60c. per 1-2 dozen. \$1.00 per dozen,
by express.

GOOSEBERRIES.

DOWNING.—The best of the American sorts, and a vast improvement upon the Houghton, of which it is a seedling. Fruit large, pale green, and of excellent quality, both for cooking and table use. Bushes stocky, vigorous, hardy, very prolific.

2-year old, 60c. per 1-2 dozen. \$1.00 per dozen. \$7.00 per 100, by express.

HOUGHTON'S SEEDLING.—A native variety, prolific bearer, light-colored fruit, impervious to mildew.

50c. per 1-2 dozen. 75c. per dozen. \$5.00 per 100, by express.

NURSERY DEPARTMENT.

WE offer in this department only such varieties of fruits and ornamental plants and trees as may suit the localities of such persons into whose hands this catalogue may fall. We sell good stock because we deal with the best houses, properly handled, ready to do the best service for the planter who is willing to supply the simple conditions necessary for success. We solicit your orders, and will cheerfully supply any information desired as to varieties, location, etc.

As our Space is limited, we will describe a few of the choicest kinds, but give below the names of other varieties well known to the public.

By referring to our pages on spraying (73, 74 and 75) will be seen description, "How and When to Spray," and the apparatus for spraying. We desire to call your attention to the KEROSENE SPRAYERS described there. For some years past inventors have been experimenting with KEROSENE SPRAYERS, but, up to the present, without success. The trouble has been to give the proper percentage of oil. Either too little or too much has been the trouble. One being almost as bad as the other.

We ask you to read carefully the pages devoted to these Sprayers. It has become an absolute necessity to spray all kinds of plants, and particularly nursery stock, and it requires intelligent work to accomplish the best results. Kerosene emulsion seems to be the most certain way of exterminating the dreaded SAN JOSE SCALE and CHINCH BUGS, CABBAGE WORMS, HORN BLOWERS, PLANT LICE or lice on domestic animals. The table on percentages should be carefully read and followed; also "How and When to Spray" (page 73).

Drop us a postal for our little pamphlet on "Spray Pumps and Nozzles."

SPECIAL PRICES IN LARGE LOTS.



WINTER APPLES.

LANKFORD'S SEEDLING.—Origin, Kent Co., Md. Tree hardy and a good bearer, bearing annual crops; fruit of large size, striped; quality excellent; keeps till April. This new sort possesses many valuable qualities, and will no doubt become a popular sort for late winter use.

50c. each. \$4.80 per doz. \$18.00 per 100.

YORK IMPERIAL.—Medium; whitish, shaded with crimson in the sun; firm, crisp, juicy, pleasant, mild, subacid. Tree moderately vigorous and productive. A popular Pennsylvania variety. November to February.

50c. each. \$4.80 per doz. \$18.00 per 100.

MAMMOTH BLACK TWIG (Arkansas Paragon).—Originated in Arkansas. A seedling of the Winesap, which it resembles, but it is superior in many ways. Large, deep red; subacid; early and abundant bearer, and a good keeper; the tree is a strong grower, and roots well. This valuable winter apple has few equals. December to April.

50c. each. \$4.80 per doz. \$18.00 per 100.

ADDITIONAL VARIETIES.

Red Astrachan, S. Carolina Red June, S. Tetofsky, S. Fall Pippin, A. Smokehouse, A. Ben Davis, W. Bentley's Sweet, W. Berry Red, W. Fallwater, A. Winesap, W. Nansmond Beauty, W. Rome Beauty, W.

25c. each. \$2.40 per doz. \$15.00 per 100.

CRAB APPLES.—60c. each. \$6.00 per doz.

PEARS.

BLIGHT PROOF.—This seems to have inherited all the health and vigor of its parent, the Sand Pear. The fruit is large to very large, conical, smooth, with beautiful greenish yellow surface; flesh is tender and very juicy; the tree is an upright, strong and handsome grower; bears young and enormously. August and September.

40c. each. \$4.00 per dozen. \$25.00 per 100.

GARBER.—A seedling of the Japan Hybrid, raised by Dr. J. B. Garber, of Pennsylvania; resembles Keifer, yet is larger, of better quality, and very productive, and especially for canning. Tree a strong grower, bears early and abundantly. Brought to win favor for market. Free from blight, September and October.

40c. each. \$4.00 per doz. \$25.00 per 100.

Keifer, Flemish Beauty, Bartlett, Seckel.

3c. each. \$3.00 per doz. \$20.00 per 100.

\$20.00 per 100 when 50 or 100 lots are ordered, including Blight Proof and Garber, the lowest rate will be allowed.

FRUIT.

SUMMER APPLES.

YELLOW TRANSPARENT.—A Russian apple of great value; above medium size, roundish oblate; slightly conical; skin a clear white, changing to a pale yellow when fully matured; a remarkably early bearer; very prolific; tree a vigorous and upright grower; gives general satisfaction; does well everywhere, and ripens among the earliest. July.

50c. each. \$4.80 per doz. \$18.00 per 100.

EARLY HARVEST.—Rather large, round; yellow flesh nearly white, tender, juicy, crisp, with a rich sprightly, subacid flavor; tree a moderate grower and very productive; taking all its qualities into consideration, this has no superior among early apples. June and July.

50c. each. \$4.80 per dozen. \$18.00 per 100.

AUTUMN APPLES.

GRAVENSTEIN.—Large, roundish, striped with red; flesh tender, juicy, very rich, subacid, high flavor; productive, handsome and excellent; fine in all localities. August.

50c. each. \$4.80 per doz. \$18.00 per 100.

OLDENBURG (Duchess of Oldenburg).—A Russian variety of very handsome appearance and great value; tree very hardy, vigorous, and an abundant bearer; fruit medium to large, golden yellow, nearly covered with streaks of crimson; flesh tender, juicy, pleasant; valuable for market. August.

50c. each. \$4.80 per doz. \$18.00 per 100.

FOLLOW INSTRUCTIONS. ON PAGE 73. HOW AND WHEN TO SPRAY.

NURSERY DEPARTMENT. CONTINUED.

FRUIT AND NUT TREES.

PEACHES.

CROSBY (Excelsior, Frost Proof).— This valuable peach has been tested for ten years in the bleakest parts of New England, and, in each case, has proved itself to be first class in every way. The fruit is of medium size, bright yellow, splashed and streaked with carmine on the sunny side; the flesh is firm, sweet and delicious; stone very small; an enormous bearer. It ripens between Early and Late Crawford.
20c. each. \$2.00 per dozen. \$12.00 per 100.

CHAMPION.— This new peach has stood a temperature 18 degrees below zero, and bore well the following season. Fruit is of large size; skin creamy white, with red cheek; the flesh is white, rich and juicy; a perfect freestone and good shipper. July.
20c. each. \$2.00 per dozen. \$12.00 per 100.

Below will be found a few additional varieties considered the best of the old well-known sorts, about in their time of ripening.

Alexander, Louise, Yellow St. John, Mountain Rose, Early Silver, Crawford Early, Wheatland, Crawford Late, Chairs Choice, Family Favorite, Chinese Cling, Old Mixon, Reeves Favorite, Christiana, Smock Free, Globe, Ringgold Cling.
18c. each. \$1.75 per doz. \$10.00 per 100.

We will include one-fourth of the higher-priced varieties when ordering lots of 50 to 100 or more.

JAPANESE OR ORIENTAL PLUMS.

New strain; received with general favor; Japanese Plums are especially successful where other kinds fail; quality as good as best European. Curculio does not affect to same extent as European. With improved spraying apparatus need not fear curculio, if spraying is properly done.

BOTAN, or ABUNDANCE.— Lemon yellow ground, nearly overspread with cherry, with heavy bloom; flesh yellow, very juicy; subacid, with apricot flavor; highly perfumed; stone small; the tree is exceedingly hardy, and bears regularly; nearly curculio proof; early and heavy bearer; the best of its class. First of August.

SIMONII (Apricot Plum). Origin, China. Fruit large, tomato-shaped, cinnamon red color, flesh is firm, sweet, aromatic; the flavor is delicious, and not found in any other plum, being similar to that of a pineapple, nectarine and banana; a beautiful and valuable plum. We believe it has come to stay; tree a strong grower, bearing young.

BURBANK.— Resembles the Abundance in many ways; globular, large, cherry red, with slight lilac bloom; flesh deep yellow, very sweet, with pleasant and agreeable flavor; strong grower; bears early, often at second year. September 1st.

PRICE—60c. each. Three for \$1.50. Six for \$2.75. \$4.50 per dozen.

ADDITIONAL VARIETIES, INCLUDING SHROPSHIRE DAMSON.
PRICE—35c. each. \$3.50 per dozen.

CHERRIES.

HEART—Black, Tartarian, Gov. Wood, Napoleon Bigareau, Florence, Early Purple.

DUKE AND MORELLO—Dye House, Belle Magnifique, Early Richmond, Montmorency.

Price, 25c. each. \$2.50 per dozen.

APRICOTS.

APRICOTS (Russian Varieties)—Nectarines—Quinces, consisting of Meech Prolific, Rea and Champion.

Price, 25c. each. \$2.50 per dozen.

NUT-BEARING TREES.

Since the growing of fruit trees has become such an uncertain quantity, the tree growers are turning their attention to the nut-growing industry. Quite a number of planters in the Western section of this state are planting largely; mostly the chestnut, and notably the Japans. They bear when quite young, and abundantly, are dwarf in habit, hardy and ornamental. They claim superiority over all others, because they are larger, sweeter and better. Single trees have been known to pay from \$10.00 to \$15.00. Palatable and wholesome as they are, they should become a common article of food here, as in Europe. Usually planted 30 feet apart, and will take same kind of culture as the apple.

Spanish Chestnut, English Walnut, Paper Shell Pecan, Filberts, Shell Barks, Hard and Soft Shell Almonds.

PRICE—40c. to 50c. each.

According to variety.

JAPAN CHESTNUT—\$1.00 each. \$10.00 doz.

GRAPES.

The following list contains the best known sorts of hardy American varieties:

Ohio, Black.—One of the very best sorts.
50c. each. \$5.00 per dozen.

Brighton, Red—Concord, black—Delaware, red—Martha, white—Worden, black.

25c. each. 6 for \$1.00. 12 for \$2.00.

Moore's Early, black—Niagara, white—Pocklington, white—Vergennes, red—Champion, black.

30c. each. 6 for \$1.50. 12 for \$2.00.

SELECT QUINCES.

CHAMPION.—Three to four feet, 25c. each, \$2.50 per dozen.

CHAMPION.—Two to three feet, 20c. each, \$2.00 per dozen.

MEACH PROLIFIC.—Three to four feet, 25c.

MEACH PROLIFIC.—Two to three feet, 20c. each. \$2.00 per dozen.

SPECIAL PRICES TO GARDENERS AND FARMERS, IN LARGE QUANTITIES.

ORNAMENTAL DEPARTMENT.

The increasing demand for this class of stock has induced us to make this branch a more prominent feature of our establishment. It should be kept in mind that with ornamentals, as with fruit trees, there are some that do well in one place that will fail in another, so that care should be taken, in making up planting-lists, to select such only as are known to succeed in the particular locality where they are to be planted. The stock grown for us is in the best possible condition for transplanting, having plenty of room where growing, and in soil eminently suited to the development of a good system of roots. With careful planting, and proper care afterwards, there will be but little danger of failure.

TRANSPLANTING AND CULTIVATION.

Flowering shrubs and evergreens should be carefully planted in good, deep, rich soil, and well mulched. When this is done, watering will seldom be necessary; but when, in case of extreme drought, it may be required, it should be thoroughly done, so as to reach well down to the roots. The branches should always be shortened back, at the time of planting, in proportion to the loss of roots sustained by the tree in moving.

Those contemplating planting trees should bear in mind that the value and beauty of a tree or plant is dependent upon its thriftiness and symmetry rather than its height.

DECIDUOUS TREES,

ASH—EUROPEAN (*Fraxinus excelsior*).—A lofty tree of rapid growth.

50 Cents Each.

White American (*F. Americana*).—A native tree of large size, with pale green foliage; one of the best of the family.

50 Cents Each.

BEECH—AMERICAN (*Fagus ferruginea*).—One of the grandest trees of our forest, hardy and comparatively free from insect depredations; well deserving of more extensive planting.

50 Cents Each.

Purple-Leaved (*F. sylvatica purpurea*).—Foliage deep purple in the spring, but under our hot sun and in dry seasons it loses much of its color; for the Northern States it is a very desirable tree.

75 Cents Each.

European Beech (*F. sylvatica*).—A beautiful tree, attaining a height of 60 feet or more.

50 Cents Each.

ELM—ENGLISH (*Ulmus campestris*).—A native of Europe; a noble, rapid-growing tree, forming a dense head; a desirable tree for streets, avenues, etc.

50 Cents Each.

English Cork-Barked (*U. superosa*).—Strong, upright grower; young branches very corky; leaves rough on both sides.

50 Cents Each.

American or White (*U. Americana*).—A native tree of large size, with spreading head and graceful, drooping branches. Of all trees, no other, perhaps, unites in the same degree majesty and beauty, grace and grandeur, as this one does. It flourishes in all parts of the country, and deserves to be more generally planted.

50 Cents Each.

Scotch, or Wych (*U. montana*).—A fine, spreading tree, of rapid growth and large foliage.

50 Cents Each.

FRINGE TREE—WHITE (*Chionanthus Virginica*). A small native tree, with ash-like leaves and drooping racemes of pure white flowers, resembling an elegant fringe.

BIRCH—EUROPEAN WHITE (*Betula alba*).—A medium-sized tree, quite erect when young, but after a few years the branches assume an elegant drooping habit, which renders the tree very effective on the landscape.

50 Cents Each.

HORSE-CHESTNUT—COMMON WHITE FLOWERING (*Aesculus hippocastanum*).—A handsomely formed tree, with very attractive flowers; succeeds well in the Northern States and in the elevated portions of the Southern States; but in many places South its foliage burns under the hot sun.

75 Cents Each.

Red-Flowering (*A. rubicunda*).—A superb tree in both foliage and flowers; the foliage is darker green than the white, and the flowers showy red, coming later. Very desirable.

75 Cents Each.

Ohio Buckeye (*A. glabra*).—A native of the Western States, forming a large sized tree; flowers pale yellow.

75 Cents Each.

LINDEN—AMERICAN—BASSWOOD (*Tilia Americana*).—A large, native, rapid-growing tree, with large leaves and fragrant flowers; fine for street or lawn planting; is becoming very popular, and deservedly so, as it is a fine tree.

50 Cents Each.

European (*T. Europaea*).—A fine pyramidal tree, more compact in its habit than the above, but does not attain as large a size; a very popular tree.

50 Cents Each.

MAPLE—SILVER-LEAVED (*Acer dasycarpum*). A hardy, rapid-growing native tree, attaining a large size; valuable for producing a quick shade; fine for street and park planting, for which purpose it is planted more largely than any other tree.

50 Cents Each.

Norway (*A. platanoides*).—One of the most beautiful and desirable trees known; foliage broad, deep green, shining; its compact habit and stout and vigorous growth render it one of the most valuable trees for street or lawn planting.

50 Cents Each.

Sugar (*A. saccharinum*).—A well-known native tree of stately growth, fine form and foliage; very desirable as an ornamental and shade tree.

50 Cents Each.

Sycamore (*A. pseudo-platanus*).—A European species of moderate size; leaves large, dark green.

50 Cents Each.

MAIDENHAIR TREE, or JAPAN GINKGO (*Salisburia adiantifolia*).—A remarkable tree from Japan, of medium size; leaves fan-shaped.

50 Cents Each.

POPLAR—CAROLINA, or COTTONWOOD (*P. Caroliniana*).—A large-sized tree, of remarkably rapid growth, and becoming popular with those who want shade in the shortest possible time.

50 Cents Each.

EVERGREENS.

SPRUCE.—Two to 2 1-2 feet, 50c. each. \$5.00 per dozen.

FIRS.—Two to 2 1-2 feet, 75c. each. \$7.50 per dozen.

Other varieties in proportion.

SHRUBBERY.

DEUTZIA GRACILIS.—35c. each. \$3.00 doz.

DEUTZIA CRENATA.—35c. each. \$3.00 doz.

LILAC (White and Blue).—35c. each. \$3.00 per dozen.

SPIREA, RIEVESII.—35c. each. \$3.00 doz.

SPIREA, BUMALDO.—35c. each. \$3.00 doz.

SPIREA, CALOSA ALBA.—35c. each. \$3.00 per dozen.

HYDRANGEA, PANICULATA GRAND.—35c. each. \$3.00 per dozen.

GRAPE MYRTLE.—50c. each.

VINES.

AKEBIA QUINATA.—25c. each. \$2.50 doz.

AMPELOPSIS VEITCHII.—25c. each. \$2.50 per dozen.

ENGLISH IVY.—25c. each. \$2.50 doz.

WISTARIA PURPURA.—50c. each. \$5.00 per dozen.

WISTARIA ALBA.—50c. each. \$5.00 doz.

CLEMATIS (Large Flowering).—50c. each. \$5.00 per dozen.

CLEMATIS (Small Flowering).—30c. each. \$3.00 per dozen.

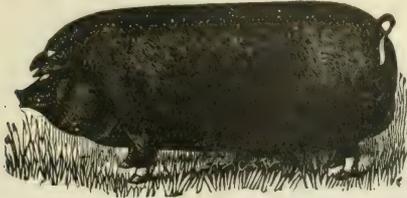
HEDGE PLANTS.

| | 1 year. | 2 years. |
|---|-----------------|-----------------|
| CALIFORNIA PRIVET | Per 100. \$3 50 | Per 100. \$5 50 |
| OSAGE ORANGE | 75 | 1 25 |
| AMERICAN ARBOVITAE. — Twelve to 18 inches, \$12.50 per 100. Two to 3 feet, \$22.50. | | |

... THOROUGHbred STOCK AND POULTRY ...

**PURE BRED
POLAND CHINA PIGS.**

This breed, acknowledged to be the best large black hog, is a general favorite with all who have tried them. The sows are prolific breeders and good mothers, raising, in many instances, an entire litter. Our stock is choice.



Prices—First choice Pigs, eight to ten weeks old, \$8.00 each; trio mated, not akin for breeding, \$21.00.

PURE BRED BERKSHIRE PIGS.

As a distinct breed the Berkshire is one of the oldest and best, and, in fact, its merits as a producer of sweet meat, with the lean and fat nicely intermingled, are too well known to need comment. As a farmer's hog, they have few equals. Prices same as Poland China.

BROWN LECHORNS.

The characteristic features of these birds are their wonderful egg-producing qualities and early maturity, pullets beginning to lay when only four or five months old. 13 eggs for \$1.50.
Cockerels, \$3.00; trio, \$6.00.

LIGHT BRAMAS.

The largest of all breeds; they are excellent layers, quiet and gentle in disposition, and the eggs are large, of a rich brown color.
Cockerels, \$3.00 to \$5.00; trio, \$6.00 to \$8.00.
13 eggs, \$2.00; 26, \$3.50.

BARRED PLYMOUTH ROCK.

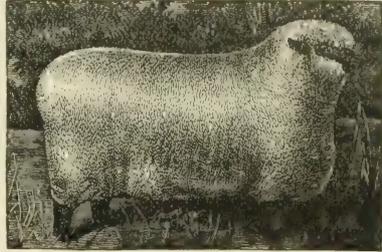


The Barred Plymouth Rock is perhaps the most popular and widely known variety of fowls bred in America. In almost every barnyard flock of fowls you will find specimens which their owner vows to be the pure and genuine Plymouth Rock. They are justly styled the "Farmers' Fowl." We believe we have as fine a strain of Barred Plymouth Rocks as can be found in the United States. After the age of ten to twelve weeks, when they make the best of broilers, there is no stage of their growth when they are not salable for market purposes. Having a fine yellow skin, and being large breasted, makes them one of the best table fowls in the market. They are the best all-year-round layers. We have three yards of these fowls, and will furnish eggs from either as follows, eggs packed in stout baskets ready for Express:

13 eggs for \$2.00; 26 for \$3.50.
Select Cockerels, \$3.00 to \$5.00.
Good Cockerels, \$2.00; Trio, \$6.00 to \$8.00.

**PURE BRED
SHROPSHIRE SHEEP.**

No sheep of today are attracting the attention of successful breeders and progressive farmers like the Shropshire class. Being the finest combination of a producer of both choice mutton and wool, they naturally yield better profits for those who breed them. Last season the average clip of our flock was nine and a half pounds to the fleece. Our flock is headed by a very choice ram, who was sired by a prize-winning ram in England.



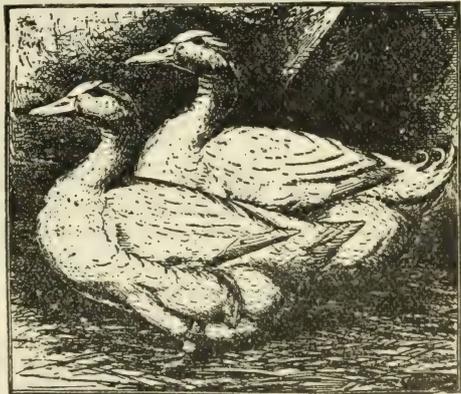
Prices—Single Buck or Ewe Lamb, first choice, \$15; Second choice Lambs, \$12.50.

**WHITE WYANDOTTES.
MAKE THE FINEST BROILERS.**

For beauty, style and fine form, they have no equal, and as a market or table Fowl they have no superior.
Cockerels, \$3.00 to \$5.00; trio, \$6.00 to \$8.00; 13 eggs, \$2.00; 26 for \$3.50.

BLACK LANGSHANS.

They attain early maturity and grow to a large size. Good layers all the year round.
Single Male, \$3.00; to \$5.00. Trio, 1 Cockerel and 2 Pullets, \$6.00 to \$8.00. Eggs, \$2.00 per 13; \$3.50 per 26.



WHITE PEKIN DUCKS.

Males, \$2.00 each Females, \$1.50 each.
Eggs, per 11, \$1.50; per 22, \$2.50.

MAMMOTH BRONZE TURKEYS.

They are good layers, and are the most profitable breed for market. Gobblers 2 years old will often weigh 30 to 40 pounds. Single gobbler, \$5.00; pair, \$9.00; trio, 1 gobbler and 2 hens, \$12.00. Eggs, \$2.25 for 6; \$4.00 for 12.

EGGS Securely packed for shipping via Express to any part of the country.

POULTRY Shipped in slat-covered coops so as to secure for customers the low Express Rates as issued by the Express Companies in November, 1895.

POULTRY SUPPLIES.

CLIMAX CONDITION POWDERS.



FOR STOCK AND POULTRY.

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. All who have used Haven's Climax Condition Powders once will have it again.

13 oz. package, 25c.; by mail, 40c.
32 oz. package, 50c.; 5 lb. box, \$1.00.

HAVEN'S ROUP PILLS.

For the cure of Roup, Catarrh, Colds, etc.
Box.....25c.

EGGS AT ALL SEASONS BY USING

RUST'S EGG PRODUCER.

TRADE

THE HEN PERSUADER.

MARK.

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 lbs. package..50c.
6 lb. box.....\$1.00



If to be sent by mail, add 16 cents per lb. to prepay postage.

SHERIDAN'S CONDITION POWDER.

Strictly a medicine, to be given in the food, once daily, in small doses. Prevents and cures all diseases of hens. Worth its weight in gold when hens are moulting. Price, small package, 25 cents, 5 for \$1.00; large package, \$1.00, by mail, \$1.25; 6 large packages, by express, \$5.50.

PIONEER CLOVER MEAL.

By all odds the best and most economical way of feeding clover. Can be fed in mash with other food.

50 lb., bag,.....\$1.50
100 lb., bag,..... 2.50

GROUND 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.

1 lb., 10c.; 5 lbs., 30c.; 10 lbs., 50c.; 25 lbs., \$1.00; 100 lbs., \$3.50.

GROUND BEEF SCRAPS.

Our ground beef scraps are specially prepared. Feed three times a week at the rate of about a handful to every three birds in the morning meal of hot food. During warm weather the scraps need not be fed more than once a week.

5 lbs., 25c.; 10 lbs., 40c.; 50 lbs., \$1.25; 100 lbs., \$2.25.

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. Fed to small chicks about three times a week will promote health, growth and vigor.

5 lbs., 25c.; 10 lbs., 40c.; 25 lbs., 75c.; 50 lbs., \$1.25; 100 lbs., \$2.25.

CRACKED POULTRY BONE.

This article is manufactured from fresh, clean bones, and is perfectly pure and sweet. The bones are extra selected, being first boiled to remove the meat, and then ground. No chemicals whatever are applied to them in the course of manufacture, so that they are turned out green and pure. Should be fed to the poultry daily, about a handful to every five fowls, 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.

5 lbs., 25c.; 10 lbs., 40c.; 35 lbs., \$1.00; 100 lbs., \$2.00.

BONE FLOUR 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 the 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.; 30 lbs., \$1.00; 100 lbs., \$2.25.

CRUSHED OYSTER SHELLS.

This is a most important article for the poultry yard through the winter, and should be liberally supplied to the fowls. In summer, when left to run at large, they can find their own shell-making material, but when everything is frozen or covered with snow, they must be helped out if eggs are wanted.

5 lbs., 15c.; 100-lb. bag, 60c.; 500 lbs., \$2.50.

MANNS GRANITE AND MICA CRYSTAL GRIT.

To aid digestion it is necessary to feed some gritty material. These supply this want better than any other article known.

5 lbs., 15c.; 100 lbs., \$1.00; 200 lbs., \$1.75; 500 lbs., \$4.00.
White Lime Grit, same price as Mica Crystal.

SUNFLOWER SEED.

Highly recommended for poultry as one of the best egg-producing foods known, keeping them in good condition.

Quart, 10c.; peck, 60c.; bushel, \$1.75.

DEATH TO LICE.

A DISINFECTANT INSECT POWDER.

This powder is unrivalled as an insecticide; handy to use, cheap to buy, and does the work quick.

15 oz. package..... \$0.25 Postpaid.....\$0.40
48 oz. package..... .50 Postpaid..... 1.00
100 oz. package..... 1.00 Express paid..... 1.50

PIGEON FOOD.

Canada Field Peas.—Quart, 10c.; peck, 40c.; bush., \$1.25.

Buckwheat.—Quart, 10c.; peck, 40c.

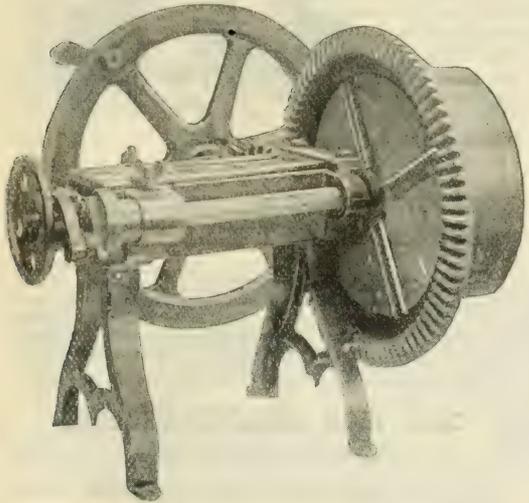
Hemp Seed.—Pound, 8c.; 4 pounds, 25c.; peck, 50c.

OYSTER SHELL AND CHICKEN BONE BY THE BAG, TON OR CARLOAD.

BONE CUTTERS, MILLS, ETC.

Dandy Green Bone Cutters.

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 coarse or fine.



- No. 1.....\$10.00
- No. 2, same as No. 1, except it has a split nut in the feed wheel which facilitates the working of the feed screw..... 12.00
- No. 3, for hand and power..... 18.00

OUR No. O DANDY.

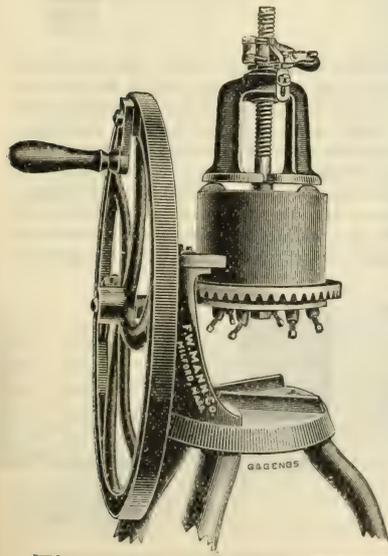
This is a splendid machine for the money. The knives are made of the best tool steel and finely tempered.

Price, with Balance Wheel.....\$7.00
 Price, without Balance Wheel..... 5.00

GEARED DANDY CUTTERS.

The Geared machines will cut faster, and having four knives will cut just as fine as the others.

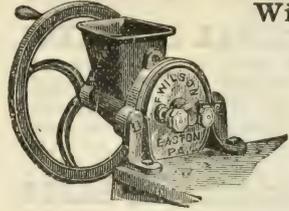
- No. 11 Geared, price.....\$13.00
- No. 12 " with split nut, price..... 15.00
- No. 13 " for power, price..... 20.00
- Pully for belt..... 2.00



Mann's Bone Cutters.

- No. 1, B with balance wheel.....\$7.00
- " 4, B M "..... 12.00
- " 1, B M "..... 10.00
- " 1, B M "..... 15.00
- " 6, Post Bone Cutter..... 16.00
- " 2, Standard Bone Cutter..... 18.40
- " 10, Small Power Cutter..... 26.00

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.
 Price, \$4.00.

No. O FOR GRAIN ONLY.

An excellent mill for grinding grain of all kinds.
 Price, \$4.00.



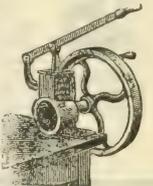
Wilson's Crown Green Bone Mill.

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\$8.00
 Without stand 6.50

THE DAISY BONE MILL.

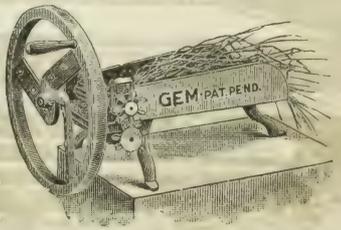
With stand...\$15.00 Without...\$12.00



The Gem Clover Cutter.

Best in the world. All iron and steel. Cuts green or dry fine, even and easy.

Price ...\$ 9.00
 Price, with legs..... 10.00



Mann's Clover Cutter.

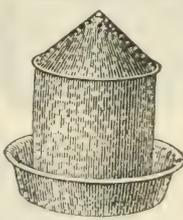
Made entirely of Iron and Steel.
 Price with balance wheel\$ 8.00
 Mounted on Iron Stand..... 10.00

The Webster Clover Cutter.

This is just the thing for small poultry yards. Does nice work.
 Price\$3.50

Galvanized Drinking Fountains.

- No. 1, 2 qts..... 30c., \$3.25 doz.
- No. 2, 4 qts..... 50c., 5.00 doz.
- No. 3, 8 qts..... 75c., 7.00 doz.



Baltimore Fountains.

Earthenware.

- 1 qt., 25c..... \$2.50 doz.
- 2 qt., 40c..... 3.50 doz.
- 4 qt., 55c..... 4.50 doz.



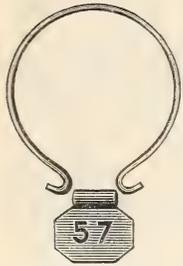
18 inch.....\$1.00
 27 inch..... 1.25

MANN'S GRANITE GRIT.

Per 100 lbs\$1.00
 Per 200 lbs 1.75
 Per 500 lbs..... 4.00

PORCELAIN NEST EGGS.

The best and cleanest nest egg used.
Each, **5 cents.** Dozen, **25 cents.** By mail, **50 cents.**



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., **25 cts.**; per 30, **75 cts.**; per 100, **\$1.25.**

FLAT ADJUSTABLE BANDS.

40c. per doz.

WIRE HENS NESTS.

15 cts., each; 4 for **50 cts.**; **\$1.25** per dozen.



POULTRY MARKER.

This little instrument is used for marking young and old chickens. It is invaluable to breeders and farmers. They are made in two sizes for large or small chicks, nickle-plated, have steel cutter and spring, and are made small and neat to carry in the vest pocket. Sent by mail on receipt of price.
Price **25c.** each.

CAPONIZING TOOLS.



Every poultry man knows that Capons are much larger fowls, sweeter and finer meat and sell at a much higher price than others. You can do your own caponizing easily.

Book with full instructions sent free with each set of instruments.

Price, in Leather Case with instructions, **\$2.50.**

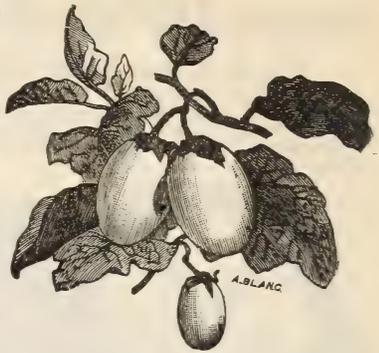
EGG BASKET.



These are light yet strongly made, and are furnished with cardboard divisions for the eggs. Each division is large enough to allow for convenient packing with "Excelsior" or other material, thus making the eggs absolutely secure when shipped by express. Sizes: One and two sittings, furnished with strong wood handles for each basket. A cardboard cover, printed in bold letters, "Eggs for Hatching—Handle with Care," goes with every basket. One-sitting complete, **20 cents** each, **\$2.00** per dozen; two-sittings complete, **25 cents** each, **\$2.50** per dozen.

NEST EGG GOURD.

These exactly resemble the eggs of hens, making a capital nest egg; superior to glass eggs, as they do not break, and are uninjured by cold or wet. The plant is a rapid growing climber.



Pkt. . . . **5 cts.**
8 pkts. **25 "**

FRENCH POULTRY KILLING KNIFE.



The most expeditious and humane way of killing and dressing poultry is by the French method. These knives are made of the finest steel.
Price, with instructions. . . . **50c.** each.

CAST IRON POULTRY TROUGHS.

SEE ILLUSTRATION PAGE 129.

This is an indispensable article for parties raising poultry. Is readily cleaned, and no leaking.

No. 0, 8 inches long, 3 1/4 inches wide at top, 1 1/4 inches deep, **20 cents.**

No. 1, 20 inches long, 4 inches wide, 1 1/2 inches deep, **40 cents.**

No. 2, 23 inches long, 7 inches wide, 3 inches deep, **50 cents.**

THE SAFETY EGG CARRIER.

The only perfect Carrier for the transportation of Eggs. Trays easily removed and can be turned bottom up without spilling an egg.

The eggs can be taken from the cases in a moments time by simply removing the trays, showing just what the contents may be, making it easier for the seller and better for the buyer. Every egg is wholly visible.

| | |
|--|---------------|
| 30 doz. Carrier, Trays and Case combined.. | \$2.50 |
| 16 " " " " " " " " | 2.00 |
| 12 " " " " " " " " | 1.75 |
| 6 " " " " " " " " | 1.25 |

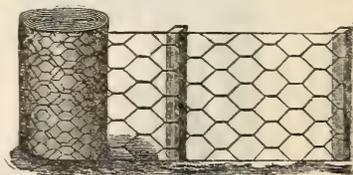
POULTRY NETTING.

For Enclosing Poultry Yards.

The wire we offer is all No. 19, double twist, 2-inch mesh, thoroughly galvanized after weaving. Sold in bales of 150 running feet.

| | | | | | |
|------------|----------|----------------------|------------|----------|-----------|
| | | Prices, 2-inch mesh: | | | |
| Width. | Sq. ft. | Per bale. | Width. | Sq. ft. | Per bale. |
| 12 in..... | 150..... | \$0.70 | 48 in..... | 600..... | \$2.65 |
| 18 in..... | 225..... | 1.10 | 60 in..... | 750..... | 3.25 |
| 24 in..... | 300..... | 1.35 | 72 in..... | 800..... | 3.90 |
| 36 in..... | 450..... | 2.60 | | | |

Prices for less quantity, 3-4 cent per square foot. Staples for fastening, 10 cents per lb.



GAPE EXTRACTOR.



PRICE, **25 CENTS** EACH.

SCOTCH COLLIE DOGS.

PRICES ON APPLICATION.

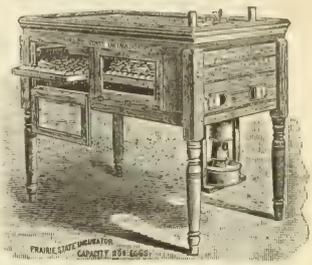
PRAIRIE STATE INCUBATORS AND BROODERS.



100 EGG INCUBATOR.

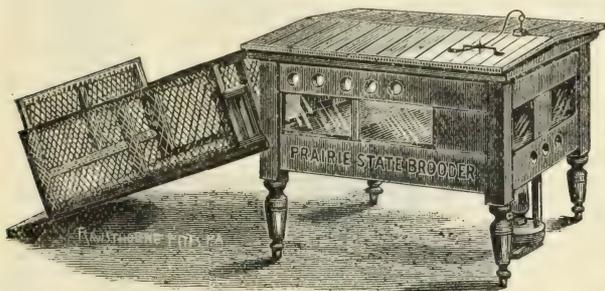
We believe that to-day we have a better machine than ever to offer the public. The new Improved *Prairie State Incubator* is meeting with favor on all sides, and orders are constantly coming in from those who have tried them and then ordered more. The machine is built of the best well seasoned material neatly ornamented and finished. The doors are of double glass, though which can be seen the thermometer and eggs. Complete directions for operating, extra wicks, egg tester, thermometer and extra tray for turning eggs furnished with each machine. Every machine warranted.

GRIFFITH & TURNER CO., Agents.



200 EGG INCUBATOR.

The Prairie State Hot Air Brooder.



(Self-regulating Top and Bottom Heat.)

This brooder is intended for indoor work only. They will do the work satisfactorily, and as they are well made and finely finished, can be placed in any building, or moved from one place to another.

Incubators.

| | | | | | |
|----------------|---------|----------|-------|-----|---------|
| 0 Incubator | 50 eggs | 120 lbs. | ..... | Net | \$16.00 |
| 1 | " | 100 | " | " | 20.00 |
| 2 | " | 200 | " | " | 32.00 |
| 3 | " | 300 | " | " | 44.80 |
| 4 Inc., double | 400 | " | " | " | 56.00 |
| Special duck | 288 | " | " | " | 49.60 |

Style B.—This new style Incubator is constructed of the best material and the principle of working is similar to the style A.

No. 1 style B—capacity 100 Eggs..net, \$15.00
 No. 2 style B—capacity 200 Eggs..net, 24.00

Brooders.

Hot Air Self-regulating, with runs.

| | | | | | |
|----------|-------------|--------------|-----------------|------|---------|
| No. 1, | 100 chicks, | 100 lbs., | crated..... | net, | \$13.50 |
| No. 2, | 200 chicks, | 120 lbs., | crated..... | net, | 18.00 |
| Style D, | 100 chicks, | 60 lbs., | cheap and good, | | 7.10 |
| Style E, | Hot-Air | Outdoor..... | | | 12.00 |

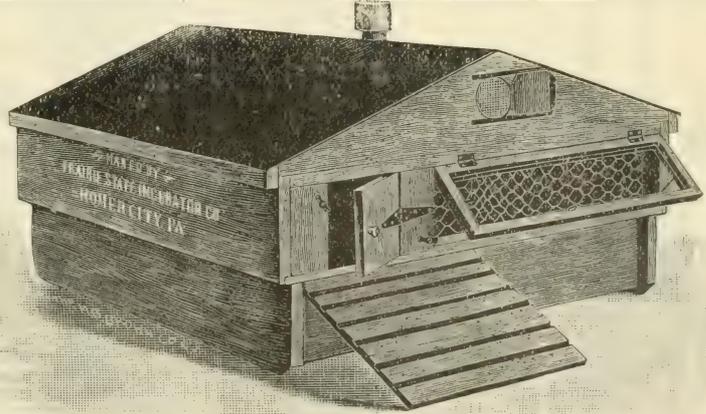
Sectional Hot-Water Pipe Brooders, no runs.

| | | | | | | |
|----|------------|-------------|-----------|---------|------|---------|
| 1, | 1-section, | 100 chicks, | 110 lbs., | crated, | net, | \$12.60 |
| 2, | " | 200 | " | 210 | " | 17.10 |
| 3, | " | 300 | " | 310 | " | 21.60 |
| 4, | " | 400 | " | 410 | " | 26.10 |

Hot-water Outdoor Brooder, capacity 100 to 150 chicks, weight 225 lbs., net..... 20.00

Hot-Air Outdoor Brooder.

Style E.—Capacity, 100 chicks. Has all the convenience of the Hot-water Brooder; is rat, rain and storm proof. The roof and cover are removable making it easy to clean. Price \$12.00.



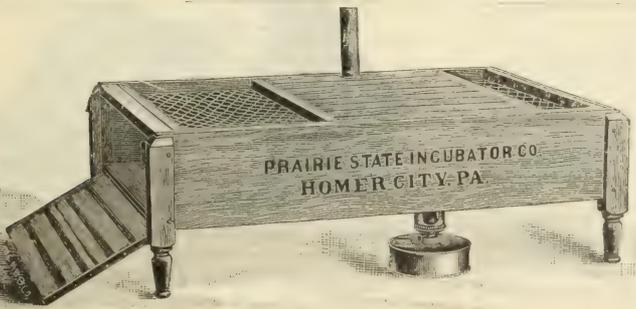
Extra for Incubators and Brooders.

Special tested Thermometers, Metal, 75c.; 10 cts. extra for mailing each. Burners for No. 1 Incubator Lamp, 25c. postpaid; for Nos. 2 and 3 lamps 35c. postpaid. Lamps for No. 1 Incubators, 65c.; for No. 2, 75c. Extra Trays for Incubators, 40c. each. Egg tester 35c. postpaid.

New Top-heat Hot-air Indoor Brooder.

Style D.—The simplest and cheapest on the market. An ideal indoor Brooder: has air-channels under heating chamber, insuring thorough ventilation; it is secured from the invasion of rats or cats.

Price.....\$7.00.



— FLORIST AND GARDEN SUPPLIES. —

MASTICA FOR GLAZING



Greenhouses, Sashes, etc. new and old. It is Elastic. Adhesive and easily applied; it is not affected by dampness heat or cold.

MASTICA GLAZING MACHINE

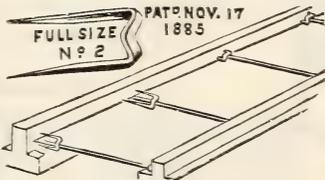
"Mastica," when applied, in a few hours forms a skin or film on the entire mass, hermetically sealing the substance and preventing the evaporation of the liquids, and remains in a soft, pliable and elastic condition for years. "Mastica" is of great value in going over old houses with a putty bulb or machine on the outside of sash, as it makes it perfectly tight and saves the expense of relaying the glass.

Price, \$1.00.

½ gallon, 60c.; gallon, \$1.00. 5 gallons, \$4.70.

VAN REYPER'S GLAZING POINTS.

The finest glazing points on the market; the glass cannot slip; they are quickly and easily put in with special pincers; no "rights and lefts" to bother with.



PAT. NOV. 17 1885

Price, per box of 1,000, 60c., or by mail, 75c. Price, in lots of 5,000, by express, 55c. per 1,000. Pincers, price per pair, 50c., or by mail, 60c.

PLANT SPRINKLERS.



For sprinkling cut flowers, seedlings plants, clothes, etc.
Medium size.....\$.60
Large size......85c. and 1.00
By mail, 10c. extra.

PUTTY BULBS.

Price.....\$.90
Price by mail..... 1.00

PATENT 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, 4c. per yard. Per piece of about 65 yards, 35c. per yard. Medium grade, 8c. per yard. Per piece of about 60 yards, 75c. per yard. Heavy grade, 11c. per yard. Per piece of about 40 yards, 10c. per yard.

RAFFIA.

The best material for tying plants, vines, etc. Per lb., 15c.; 5 lbs., 60c.; 10 lbs., \$1.00.

SILKALINE, spool20c.

GRAFTING WAX.

10 cents, ¼ pound. 35 cents, per pound.

GARDEN BOXES.

20, 25 and 30 cents each.

SPHAGNUM MOSS.

For packing growing Orchids, Plants and Trees, etc., etc. \$1.25 per bbl., \$2.50 per bale.

BRASS GARDEN SYRINGES.

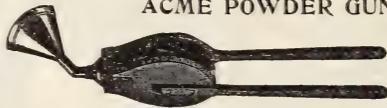
OUR SYRINGES ARE THE BEST MADE.



Barrel 16 in. x 1½ in. diameter.

- No. 1—1 Stream, 2 Sprays, 15x1¼ inch.....\$2.00
- " 2—1 " " " 18x1½ inch..... 2.50
- " A—Barrel, 12 in. long, 1 spray and 1 stream rose, 2.00
- " 10—Barrel, 18 in. long, 1 coarse and 1 fine spray and 1 stream rose with patent valves and elbow joint..... 5.50
- " 12—Barrel, 13 in. long, 1 coarse and 1 fine spray and 1 stream rose..... 3.00

ACME POWDER GUN.



Price, 75c.

Is a simple, practical instrument for exterminating all kinds of insects, Bugs, Flies, etc., etc. Will last a lifetime, and every farmer should have one. It will handle all insecticides in the dry state—Pure Paris Green, Hellebore, Persian Insect Powder, etc. It is very effective in the destruction of Potato Bugs, Currant Worms and all like pests, and for the wholesale destruction of house flies, using freshly ground insect powder, cannot be excelled.

LIQUID ATOMIZER.

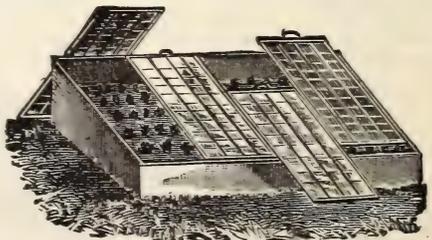
Price.
Brass . \$1.00
Tin..... .50



For spraying Paris Green and other insecticides on Potato Plants, Shrubs, Small Trees, House Plants, Live Stock and Poultry.
For Potatoes: Put one rounding tablespoonful of poison into the can, fill with water and thoroughly agitate; should action of valve become weakened from wear, take out the two screws at end of tube; draw out plunger and wrap twine around bevel edge of wood washer, spreading leather with fingers; keep plunger well oiled; funnel is for filling only.

HOTBED MATS.

Made of strong Burlap, interlined with wool; 40 x 76; 75 cts. each.



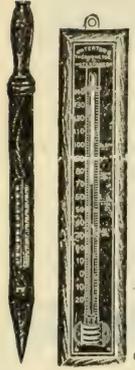
Unglazed Hotbed Sash. 75 cts. 10 for \$6.50.

STABLE BROOMS.

For stables, lawns and walks. Price, with handle, 60c.

HORTICULTURAL TOOLS.

THERMOMETERS.



- Tin, Japanned, 7-inch.....\$.15
- 10 inch Distance Reading Thermometer......25
- Boxwood, fine finish, red spirit. 1.00
- Plain metal, brass finished..... .50
- Dairy or hotbed, glass, floating..... .25
- Eight-inch Dairy, stands boiling water..... .50
- Mushroom bed, or hotbed, with brass end..... 1.00
- Mushroom bed, or hotbed, with brass end, extra good... 1.50
- Porcelain scale, red spirits... 1.00
- New Incubator Thermometer... .75
- Stands in tray between the eggs and can be read without opening drawer.

OUT-OF-SIGHT MOLE TRAP.

A splendid trap adapted for use in frames or field. Can be set without disturbing runway. Price, \$1.25.

THE MODEL MOLE TRAP.

This, while possessing all the good qualities of other traps is especially adapted for setting under glass. Price, \$1.75.

OUR NEW MOLE TRAP.

This is a good Mole Trap for the money. Price, \$1.00.

IRON-CLAD WATERING POTS.

With Adjustable Nozzles.

- 4-quart.....\$.60
- 6-quart......75
- 8-quart......80
- 10-quart..... 1.60
- 12-quart..... 1.25
- 16-quart..... 1.50

Special for Florist's use, \$1.75 and \$2.00.



DIBBLES.



For transferring plants. By far the best thing for the purpose ever introduced. Straight, made of Tubular Steel.....\$1.00
Right-angle Shape, Steel Polished, Wood Handle......35

THE NEW GARDEN IMPLEMENT CLEVES' TROWEL.



- No. 1—"STANDARD" 8-in. blade, 25c.; mailed, 35c. each.
- No. 2—"MEDIUM" 7-in. blade, 20c.; mailed, 30c. each.
- No. 3—"DAISY" 5-in. blade, 15c.; mailed, 20c. each.

For the Lawn—a Plainant Digger. For the Greenhouse—a Transplanter. For the Conservatory—a Cultivator. For the Garden—an all round handy digger. TRY IT.



This cut represents one of the best Trowels ever offered to the trade. It is made of forged steel, strong and durable.
6-inch, 40c. 7-inch, 50c.
Cheap Wood-handle Trowels, 5 and 10c. each.
If Trowels are wanted by mail, send 10 cents additional for postage.

LIGHT PLANT STAKES.

| | Each. | Per doz. | Per 100. |
|--------------|--------|----------|----------|
| 1½ feet..... | \$.02 | \$.15 | \$.80 |
| 2 feet..... | .03 | .25 | 1.40 |
| 2½ feet..... | .05 | .38 | 2.00 |
| 3 feet..... | .05 | .46 | 2.75 |

HEAVY OR DAHLIA STAKES.

| | Each. | Per doz. | Per 100. |
|-------------|--------|----------|----------|
| 3 feet..... | \$.06 | \$.67 | \$3.85 |
| 4 feet..... | .08 | .88 | 5.15 |
| 5 feet..... | .10 | 1.10 | 6.40 |

CANE STAKES.

5 to 7 feet long..... Per 100, \$1.00. Per 1000, \$7.00

POT LABELS.

| | Plain. | Painted. |
|------------------------|----------|----------|
| 3¼ inch, per 1000..... | \$.45 | \$.60 |
| 4 " " "..... | .50 | .65 |
| 4½ " " "..... | .55 | .70 |
| 5 " " "..... | .65 | .90 |
| 6 " " "..... | .75 | 1.00 |
| 12 inch, per 100..... | .50 cts. | |

PAINTED TREE LABELS.

3¼ inch, Notched or Pierced..... 65c. per 1000

UNPAINTED STAKES OR DOWELS.

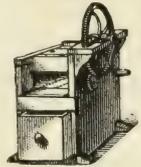
| Long. | Diameter. | Per Doz. | Per 100. | Per 1000. |
|--------------|-------------|----------|----------|-----------|
| 36 inch..... | ¼ inch..... | \$.15 | \$.75 | \$4.50 |
| 42 inch..... | ¼ inch..... | .20 | .85 | 5.00 |
| 44 inch..... | ¾ inch..... | .25 | 1.00 | 6.00 |

GALVANIZED HARD STEEL PLANT STAKES.

These are a great improvement over wooden stakes for Carnation and Rose beds, as they are durable, neat and strong.

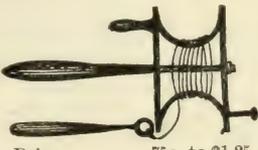
| | Per 100. | Per 1000. |
|-------------------|----------|-----------|
| 2½ feet long..... | \$.50 | \$4.25 |
| 3 feet long..... | .60 | 5.00 |
| 3½ feet long..... | .70 | 6.00 |
| 4 feet long..... | .80 | 7.00 |
| 5 feet long..... | 1.00 | 8.50 |

HORSE RADISH GRATER.



Price, with Perforated Tin Cylinder.....\$6.50
Price, with Steel Pin..... 7.50
Machine for Power.....10.00

GARDEN REELS.



Price.....75c. to \$1.25

EXCELSIOR WEEDER.



Price, 10c. Mailed, 15c.

LARGE HAND WEEDER.



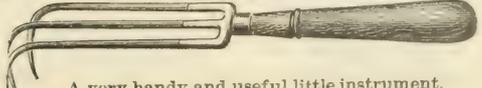
Large size.....15c.
Small size.....10c.
By mail, 10c. extra.

ALL STEEL TROWEL.



Very strong and durable.
Price.....15c.
Full tinned Malleable Trowel.
Price.....10c.

EUREKA HAND WEEDER.



A very handy and useful little instrument.
Price, 25c. each. Price, with long handle, 35 c.

HORTICULTURAL TOOLS.



— PRUNING —
SHEARS.

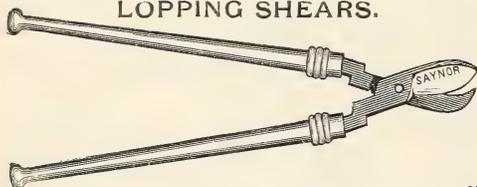
- No. 1—Malleable Pruning Shears, with Steel Blade \$ 40
- No. 2—Malleable Pruning Shears, with Steel Blade 50
- 8 1-2 inch. Solid Steel Pruning Shears..... 60
- 9 inch. Solid Steel Pruning Shears..... 75
- Full Polished Pruning Shears..... 1.00
- 6 inch. Nickle-Plated Ladies' Flower Shears... 75

NEW VINEYARD PRUNING SHEARS.

These have been recently introduced among the vineyardists and have met with great favor.

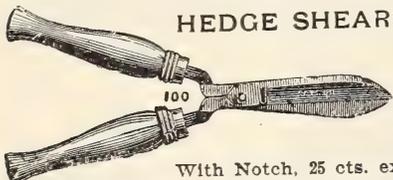
Price.....\$1.25

LOPPING SHEARS.



- Baltimore Draw Cut Lopping Shears\$2.50
- American Shears, No. 1..... 75
- American Shears, No. 2..... 1.25
- American Shears, No. 5..... 1.00

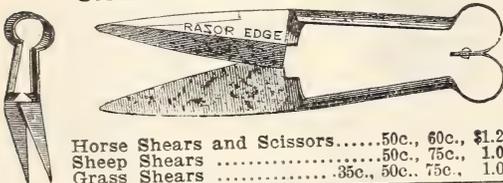
HEDGE SHEARS.



- 8 inch \$1.25
- 9 inch..1.50
- 10 inch..1.75
- 12 inch..2.25

With Notch, 25 cts. extra.

SHEARS AND SCISSORS.



- Horse Shears and Scissors.....50c., 60c., \$1.25
- Sheep Shears50c., 75c., 1.00
- Grass Shears35c., 50c., 75c., 1.00



- FLOWER SCISSORS, 75 cts.
- GRAPE SCISSORS, 65 cts.
- 5c. extra for postage.

WATERS' TREE PRUNERS.



- 4 feet long.....\$.75
- 6 feet long..... .85
- 8 feet long..... .95
- 10 feet long..... 1.00
- 12 feet long..... 1.10
- Extra Knives, 20c.



PRUNING SAWS.

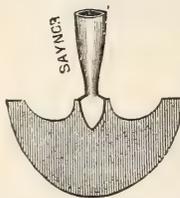
- 16 inch.....60c.
- 18 inch.....70c.
- 20 inch.....80c.
- Saw and Chisel, comb'd... \$1.00

TELEGRAPH TREE PRUNERS.

Price, without Pole,.....\$1.00

WIRE PLIERS.

- Combination Wire Pliers\$1.50
- Fence Wire Cutters.....8 inch, 50c.; 10 inch, 75c.



EDGING KNIVES.

- 9 inch. American\$ 1.50
- 10 inch American60
- 8 inch. English.....\$1.00, \$1.25
- 9 inch. English. 1.25, 1.50
- 10 inch. English..... 1.50, 1.75

PRUNING KNIVES.



Prices50c., 75c.

BUDDING KNIVES.

PriceNo. 12, 75c.; No. 10, \$1.00



LIGHTNING HAY KNIFE.

Price.....\$1.00

SCYTHES. See page 134.

- American\$ 60
- Best American 75
- Bush or Brier Scythes 65
- English T. Waldron, 36, 38 and 40 inch..... 1.35
- American Grain..... 1.00
- English Waldron Grain..... 1.75

SCYTHE STONES.



- No. 1—Willoughby Creek..... 10c. each, \$1.00 doz.
- No. 2—White Mountain..... 10c. each, 1.00 doz.

These are far superior to Darby Creek and not so easily broken.

- 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. each.
- No. 6—Darby Creek.....10c. each, \$1.00 doz.
- No. 7—Imported English Talacre.....20c. each.

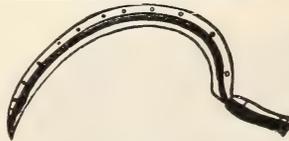
None genuine unless labeled Sir Pyers' Mostyn, Talacre Quarries.

SCUFFLE HOES.



- 4 inches..... 50c.
- 6 inches..... 55c.
- 8 inches..... 65c.
- 10 inches..... 75c.

GRASS HOOKS



- American.....25c.
- Draw Cut.....40c.
- German.....25c., 35c., 45c.
- Best English...45c., 50c.
- Best English Hedge Hook....60c. to 75c.

GRASS EDGER.



- Price, without wheel.....\$2.25
- Price, with wheel 2.75

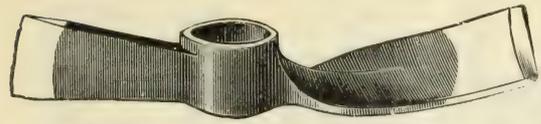
ASPARAGUS KNIFE

Made of Solid Steel.....25 cts. By mail, 40 cts.

ASPARAGUS BUNCHER.

Price.....\$1.50

Mattocks, Picks and Grub Hoes.



| | | |
|---|-------------|---------|
| | Retail List | |
| | price | price. |
| No. 1, 5 lb. Best Quality Warranted Steel Mattocks. | \$0 | 75 |
| " 1, 6 " | | 90 |
| " 2, 5 & 6 lb. Best Refined Iron Mattocks (Steel Cutters) | 50 | \$16 00 |
| " 1, 3 1/2 lb. Best Refined Iron Grub Hoes, (Steel Bit) | 40 | 11 00 |
| " 2, 4 lb. Best Refined Iron Grub Hoes, (Steel Bit) | 40 | 11 50 |

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, \$1.50



Picks.

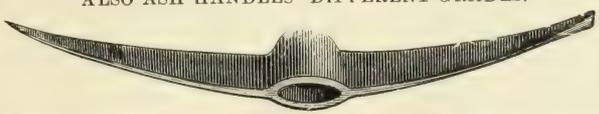


| | | |
|--|-------------|---------|
| | Retail List | |
| | price | price |
| No. 1, 6 to 7 lb. Best Quality Warranted Steel R. R. Picks. | \$ | 80 |
| No. 2, 6 to 7 lb. Best Refined Iron R. R. Picks (Steel Points) | 50 | \$13 00 |

Pick and Mattock Handles.

| | |
|---|------|
| No. X, Best Quality, Selected, 2nd Growth Hickory Pick Hdles. | .20c |
| " 1, Good " White Hickory Pick Handles | .15c |
| " 2, Mixed White and Red " | .10c |

ALSO ASH HANDLES—DIFFERENT GRADES.

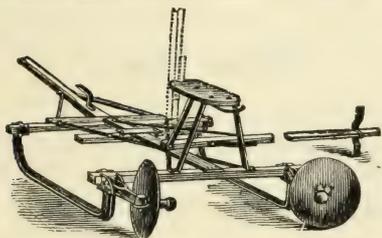


Steel Hollow Handle Post Spade.

Flattened at one end like a spade. The other end is sharpened, and can be used as a crowbar. Light, durable effective, cheap.

Price.....\$1.50

Darnell's Improved Patent Furrower and Marker.



Strong, light and durable. A Half Dozen Tools in one and each worth the purchase price
 Runs steadily, and cannot be choked. Adjustable throughout. Gauge self-adjusting to all inequalities of ground.
 Every part well made of good material, and no end to its wear and usefulness. Broad runners of wrought T angle iron with rib to prevent sliding on side hill. Revolving discs or furrowers, fifteen inches in diameter, with chilled hub and steel axle, cutting a clean, straight furrow.
 Shipping weight, 140 pounds. Price, \$18.00.

Lanterns.



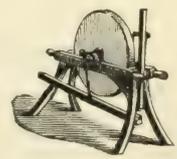
This Lantern has the lift wire attachments and guard, and is desirable for hand service. Made in bright Tin, Brass or Copper. Can be filled, lighted, regulated and extinguished without removing globe. Price, 50c.
 Dash board Lantern. Price, 90c.

Steel Rat Traps.

| | |
|------------------|----------------------|
| No. 1 Steel Trap | 15 cts. each. |
| " " " " " " |\$1.25 per doz. |

Grindstones Mounted.

| | |
|-------|-------------|
| No. 1 |\$3 50 |
| " 2 |3 00 |
| " 3 |2 50 |



Lard Press.

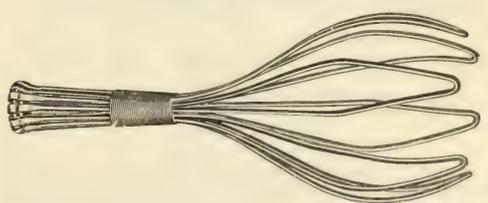
And Sausage Stuffer combined. To stuff sausage, remove gin strainer and bottom plate. A cloth or bag should be used when pressing fruit or jelly.

| | |
|-------------------------------|-------------|
| No. 15—2 quart Japanned Screw |\$4 00 |
| " 25—4 " " " |5 00 |
| " 35—8 " " " |6 50 |

Meat Choppers.

| | | | | |
|---------------------------|----------|-----------|--|--------|
| | | Chops per | | |
| | | Minute. | | Price. |
| No. 10 Large Family size. | 8 lbs. | 2 lbs. | | \$3 00 |
| " 12 " " " | 7 " | 2 " | | 2 50 |
| " 20 Butcher's size | 16 1/4 " | 3 " | | 5 00 |
| " 22 " " " | 12 " | 3 " | | 4 00 |

Fruit Picker.



First-class for picking fruit, particularly when wishing to select ripest without interfering with immature specimens. Price, 50c.



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 have been at great pains and expense to produce a line of Fertilizers to meet these various requirements. The greatly increased demand, and the reports of excellent results from the use of our different brands, testify to the quality of the goods.

We challenge a trial by the side of any other Fertilizer on the market, the conditions being the same, and we do not fear the result.

Ammoniated Alkaline Plant Food.

Our old stand-by for summer crops adds new customers to the list every year; is used largely on Potatoes, Corn, Tobacco and other summer crops, stands the hot, dry weather particularly well. This brand has given most excellent satisfaction on Potatoes and Tobacco, and is used probably more for these than any other crop.

Price, - - - \$22.50 per ton.

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—in fact, it contains all of the ingredients necessary to supply what may be lacking in the soil for almost any crop.

Price, - - - \$28.00 per ton.

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; greatly increased sales testify as to its quality.

Price, - - - \$22.50 per ton.

Soft Ground Bone.

Made from softer material than the regular "Ground Bone," and contains some little meat and blood. The fact that the soft bone is not absolutely pure on account of its containing the above, has led different parties to put brands on the market which do not compare in any way with this brand; it acts quickly, and at the same time is a good article of plant food. 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, - - - \$27.00 per ton.

Ground Bone.

Absolutely pure; ground very fine; every report gives this article a very high analysis, and in almost every case it has analyzed nearly 5 per cent. of Ammonia and 50 per cent. of Bone Phosphate.

Price, - - - \$28.00 per ton.

Dissolved Bone.

Made from stock containing some meat, thoroughly dissolved, and in fine drilling condition. 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.

Ammoniated Soluble Bone.

Made for our Pennsylvania trade exclusively, where it is well and favorably known.

Price, - - - \$20.00 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, - - - \$17.00 per ton.

FERTILIZERS.—Continued.

Soluble Bone Phosphate.

A good, cheap Fertilizer. There is such a difference of opinion as to the chemical action of Fertilizers that no line of goods would be complete without a brand of this kind. 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. 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, - - \$15.00 per ton.

High-Grade Acid Phosphate.

Best grade of S. C. Phosphate, thoroughly dissolved and in good, dry condition.

Price, - - \$11.00 per ton.

Land Plaster.

In Bags of 200 pounds each.

90c. per bag. \$7.50 per ton.

Kainit.

Containing about 25 per cent. Sulphate of Potash. In bags of 200 lbs. each.

\$1.50 per bag. \$12 50 per ton.

Price, subject to change.

Peruvian Guano.

10 per cent. goods. In bags of 167 pounds.

Prices on application.

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, 167 pounds.

\$4.00 per bag, \$45.00 per ton.

Nitrate of Soda.

Is very quick in its action, and forces from ten days to two weeks. Should be used after plants have gotten good start; is very soluble, and 200 to 250 pounds to the acre is a good dressing; application should be made in connection with plaster or some similar article.

Price on application.

Muriate of Potash.

Contains about 80 per cent. of Muriate; is specially adapted for rejuvenating old, worn-out soils, which, when used in connection with other ingredients, makes a good Potato Fertilizer.

In large peach-growing sections, it is found that

a liberal application of, say 250 pounds per acre, acts like a charm, causing the trees to green up and giving them altogether new life. Where this Fertilizer is used, we hear less of the disease known as *Yellows*. We make special mixtures, containing the above, for use in peach orchards.

Price on application.

Ground Tankage.

In good, dry condition, and ground fine.

Price on application.

Fine Ground Fish.

Contains a large percentage of Ammonia. A very desirable form, quick in action.

Price on Application.

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.

It is invaluable for use in a vegetable garden. Most persons using it prefer to apply it in the hill or drill, as it comes into more immediate contact with the plant, causing a rapid and steady growth until maturity. As a top dressing for lawns, it is unequaled.

5 lbs., 25c. 10 lbs., 40c. 30 lbs., \$1.00.
50 lbs., \$1.50. 100 lbs., \$2.50.

Bone Flour.

Made Especially for Florists and Gardeners. This flour is passed through a thirty-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 167 lbs.

Coarse Ground Bone for Chickens.

Prepared from Selected Stock.

5 lbs., 25c. 10 lbs., 40c. 35 lbs., \$1.00.
\$2.25 per 100 lbs.

Bone Flour for Little Chicks.

Absolutely Pure and Sweet.

5 lbs., 25c. 10 lbs., 40c. 35 lbs., \$1.00
\$2.25 per 100 lbs.

Jadoo Fibre.

A new material in which every plant thrives without earth.

5 lbs., 30c. 10 lbs., 50c. 25 lbs., \$1.10.
Bags of 120 to 130 lbs., 3c. per lb.

INSECT DESTROYERS, ETC.

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.

It will be necessary, however, to apply it occasionally, for it does not kill the eggs or prevent them from hatching. The best time to apply it is early in the morning, particularly for potato bugs, as they do not feed during the night.

Apply with duster, bellows or gun. Ten to forty pounds is sufficient for an acre.

Ten pound packages, each, 45 cents; 5 pound packages, 25 cents; 25 lbs., \$1.00.

PERSIAN POWDER OR BUHACH.

A most effective non-poisonous impalpable powder—so fine that it penetrates the innermost crevices—for worms, flies, aphids, and almost all kinds of insects. It is very effectual, suffocating them by filling up the breathing pores.

Price, per pound, 40 cents, or by mail, 55 cents per pound. $\frac{1}{4}$ lb., 15 cts.

DRY.—Blow on with a bellows or gun.

SOLUTION.—Dissolve 1 ounce to 3 gallons of water, and apply with syringe or pump.

GRAY MINERAL ASH.

Kills all kinds of insects—Potato Bugs, Squash Bugs, Red Spider, Caterpillars, Bed Bugs, Ants, Roaches—and yet not injurious to those who use it.

Directions.—Do not put the Ash in cold water. Take half pound, sift in one gallon boiling water, stirring all the time; keep it boiling ten minutes longer, then pour into four gallons cold water. This solution is strong enough for potato vines. 1 pound can, 20 cents; 2 pounds, 30 cents; 5 pounds, 60 cents; 10 pounds, \$1.00.

TOUGH ON FLIES.

One application instantly and positively relieves horses and cattle from all annoyance from Green Heads, the dreaded Texas Heel Fly, as well as from other Flies, Gnats and Insects of every description for at least twenty-four hours. It improves the coat of the animal and abolishes the use of fly nets.

Price, quart, 50 c.; half gallon, 90c.; gallon, \$1.50.

BORDEAUX MIXTURE.

A valuable and indispensable fungicide for grape growers, thereby insuring larger crops and finer grapes, and preventing failure. A sure cure and preventive for black rot, mildew and rust; also of great value for other plants with kindred diseases. Per gallon can, \$1.25.

By express or freight, only. Mix one part of this to 50 parts of water.

POWELL'S BORDEAUX MIXTURE.

Ready for use by simply adding water.

1-lb. box, price 15 cents, makes 5 gallons spray.
5-lb. box, price 60 cents, makes 25 gallons spray.
10-lb. box, price \$1.00, makes 50 gallons spray.

KEROSENE EMULSION (a Paste.)

Ready for use by simply adding water.

1-lb. can, price 15 cents, makes 10 gallons spray.
5-lb. can, price 60 cents, makes 50 gallons spray.
25-lb. can, price, \$2.50, makes 250 gallons spray.

This is strictly an insecticide for Plant Lice of all kinds, Rose Bugs, Cabbage Bags, Melon Insects, Fowl, Human and Animal Lice, Caterpillars, Tobacco Flies, Peach Lice, Red Spiders, Green Fly and all sucking insects.

FLOWERS OF SULPHUR.

For the prevention and destruction of mildew on roses and other plants.

Apply with bellows or gun.

Pound, 10 cts. 10 lbs. 60 cts.

N. B.—If by mail, add 15 cents per pound for postage.

PARIS GREEN.

Quarter pound, 10 cents; pound, 30 cents. By mail, 15 cents extra for postage.

TOBACCO STEMS.

For fumigating greenhouses.

5 cents pound. Large quantities, 3 cents pound.

TOBACCO DUST.

Largely used by market gardeners for destroying the cabbage fly and louse.

5 pounds, 15 cents; 20 pounds, 50 cents; 100 pounds, \$1.00; 200 lbs., \$1.75; 500 lbs., \$3.75.

NIKOTEEN.

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, 50 cents; irons, 50 cents; 3 pans, 3 irons and 1 hook, \$3.00.

THYMO-CRESOL or SHEEP DIP.

In cans, per gallon, \$2.00; half gallon, \$1.25; quart, 75 cents; pint, 50 cents.

LONDON PURPLE.

Very poisonous and equally as efficacious as Paris Green, and more soluble in water.

Use in the same way as Paris Green.

1 pound, 25 cents; 10 pound lots and over at 20 cents per pound.

If by mail, add 15 cents per pound for postage.

WHALE OIL SOAP.

Makes an elegant wash for trees and plants, kills insects on trees and bark; also destroys slugs on roses.

Cake, 10 cents; pound, 15 cents.
8 lbs. \$1.00.

Large quantities at special prices.

PURE WHITE HELLEBORE.

The cheapest and best preparation for destroying Rose Slugs, Currant Worms, etc.

Quarter pound, 10 cents; pound, 35 cents. By mail, 50 cents per lb.

LEMON OIL.

This new insecticide has had for some time a marvelous success in England; perfectly safe and harmless to the tenderest foliage and roots. It effectually destroys mealy bug by syringing or dipping. It also destroys scale, thrip, red spider, black and green fly, caterpillar, American blight, mildew, etc.

Half pint, 25 cents; pint, 40 cents; quart, 75 cents; half gallon, \$1.25; gallon, \$2.00; 5-gallon kegs, \$9.00.

HOW AND WHEN TO SPRAY.

| PLANT. | First Application. | Second Application. | Third Application. | Fourth Application. | Fifth Application. |
|--|--|--|---|--|---|
| Apple —(Canker worm, codling moth, bud moth, scab). | Spray before buds start, using copper sulphate solution. | After the blossoms have formed, but before they open, Bordeaux and Paris green.* | Within a week after blossoms have fallen, Bordeaux and Paris green. | 10 to 14 days later, repeat. | 10 to 14 days later, Bordeaux or weak copper sulphate. |
| Bean —(Anthracnose). | When blossoms appear, spray with Bordeaux. | 10 days later, repeat. | 10 to 14 days later, weak copper sulphate solution. | Repeat last, if necessary. | Repeat if necessary. |
| Cabbage —(Worms, aphid). | When worms first appear, kerosene emulsion, or Paris green. | If worms or aphides are present, repeat if plants are not heading, using emulsion for aphid. | If aphides persist, or if worms reappear, use kerosene emulsion, if plants are not heading. | After heads form, use saltpetre for worms, a teaspoonful to a gallon of water, emulsion for aphides. | Repeat if necessary. |
| Carnation —(Rust and other fungous diseases). | When planted out, dip in Bordeaux. | 7 to 12 days later, spray plants with Bordeaux. | Repeat at intervals of a week or ten days until blossoms open. | While in bloom spray every week with the dilute copper sulph. solution. |  Repeat if necessary. |
| Cherry —(Rot, aphid, curculio and slug). | Before buds start, use copper sulphate solution. For aphid, kerosene emulsion. | When fruit has set, Bordeaux and Paris green.* | 10 to 12 days later, if signs of rot appear, repeat. | 10 to 12 days later, copper sulphate solution, weak. | Repeat if necessary. |
| Current —(Worms, mildew). | As soon as worms are seen Paris green. | If they reappear, repeat, adding Bordeaux for mildew.† | If worms still trouble, pyrethrum or hellebore.† | | |
| Gooseberry —(Mildew, worms). | As leaves open, Bordeaux and Paris green. | In 10 to 14 days, repeat with both. | 10 to 14 days later, sulphide of potassium on English varieties. | 10 to 14 days later, repeat if necessary. | If mildew persists after crop is gathered, Bordeaux. |
| Grape —(Flea-beetle, fungous diseases). | Before buds burst, copper sulphate solution and Paris green. | When first leaves are half grown, Bordeaux & Paris green. | As soon as fruit has set, repeat.* | 10 to 14 days later, Bordeaux mixture, if disease is present. | If necessary, very weak copper sulphate solution. |
| Nursery Stock —(Fungous diseases). | When buds burst, Bordeaux. | Repeat at intervals. | of 10 to 14 days. | | |
| Peach, Apricot —(Leaf-curl, curculio, mildew and rot). | Before buds swell, copper sulphate solution. | As soon as fruit has set, Bordeaux and Paris green.* | 10 to 12 days later, repeat. | 10 to 12 days later, repeat. | If rot persists, use very weak copper sulphate solution every 5 to 7 days.† |
| Pear —(Leaf-blight, scab, psylla and codling moth). | Before buds start, copper sulphate solution. | Within a week after blossoms fall, Bordeaux & Paris green. | 10 to 12 days later, repeat. | 10 to 16 days later, Bordeaux. | 10 to 16 days later, Bordeaux.† |
| Plum —(Black knot, rot and all fungous diseases, curculio). | As buds start, copper sulphate solution Cut out knot & burn. | When fruit has set, Bordeaux and Paris green. | 10 to 12 days later, repeat. | 10 to 20 days later, Bordeaux. | Weak copper sulphate solution, as is necessary. |
| Potato —(Beetles, scab, blight). | For scab, soak seed in corrosive sublimate solution (2 oz. in 16 gallons of water for 90 minutes). | When beetles or their larvae appear, Paris green (1 pound to 100 pounds of plaster). | Repeat whenever necessary. | When blight of the leaves is accompanied by rot of the tubers, Bordeaux. | Repeat if necessary. |
| Quince —(Leaf and fruit spot, rot). | Before buds start, copper sulphate solution. | When fruit has set, Bordeaux and Paris green.* | 10 to 12 days later, repeat. | 10 to 20 days later, Bordeaux. | Bordeaux or copper sulphate solution, as is necessary. |
| Raspberry, Blackberry (Anthracnose, rust) | Cut out badly diseased canes. Spray with copper sulphate solution before growth starts. | When new canes are one foot high, spray with Bordeaux mixture. | 10 to 14 days later, weak copper sulphate solution. | When crop is gathered, remove old canes, then new ones and spray with Bordeaux mixture. | Special Notes. For BLACK KNOT on cherries and plums, cut out and destroy by burning the diseased parts as soon as discovered. For APHIS on all plants use kerosene emulsion. If RED RUST appears the entire stools affected should be cut out and burned |
| Rose —(Mildew, black spot, red spider, aphid). | Mildew: Keep heating pipes painted with equal parts lime and sulphur mixed with water to a paste. | Black spot: Spray plants once a week with weak copper sulphate. | Red spider: Kerosene emulsion to under side of foliage. | Aphis: Kerosene emulsion | For APHIS on all plants use kerosene emulsion. If RED RUST appears the entire stools affected should be cut out and burned |
| Strawberry —(Rust). | Just before blossoms open, Bordeaux and Paris green. | When fruit has set, Bordeaux* or weak copper sulphate solution. | As soon as berries are harvested, Bordeaux (if to be kept longer). | | YOUNG PLANTS should be sprayed with Bordeaux mixture at the time of the first and third applications to bearing plants. |
| Tomato —(Rot and blight, worms). | When first fruits have set, Bordeaux. | If disease appears, repeat* or use weak copper sul. solution. | If necessary, spray with weak copper sulphate solution. | | |
| Violet —(Blight, red spider). | When blight is first seen, weak copper sulphate. Kerosene emulsion for insects. | Repeat at intervals of 10 to 20 days, as necessary for blight. | NOTE.—Use Kerosene emulsion, very weak. |  | |

EXPLANATION.—Whenever an asterisk (*) is used it cautions against spraying with poisons while the plants are in blossom; a dagger (†) indicates that there is danger of making an application within three weeks of the time the fruit is to be used as food. While the number of applications recommended will be found desirable in seasons when the fungi are particularly troublesome, a smaller number may often suffice.

FUNGICIDES.

COPPER SULPHATE SOLUTION.

Copper Sulphate..... 1 lb.
Water..... 25 gals.

For use only before the buds open. It is ready for use as soon as dissolved in water.

BORDEAUX MIXTURE.

Copper sulphate..... 4 lbs.
Quick lime..... 4 lbs.
Paris green (for leaf-eating insects)..... 4 oz.
Water (1 barrel)..... 40-50 gals.

To prevent potato rot, 6 lbs. of copper sulphate is used instead of four.

AMMONIACAL COPPER CARBONATE.

Copper carbonate..... 5 oz.
Ammonia..... 2 qts.

Water (1 barrel)..... 40-50 gals.

For use late in the season when Bordeaux mixture may stain the fruit. It is also best adapted for green-house spraying.

INSECTICIDES.

KEROSENE EMULSION.

Kerosene (coal oil)..... 2 gals.
Rain water..... 1 gal.
Soap..... ½ lb.

To be diluted before use with 9 parts of water. For sucking insects.

PARIS GREEN AND WATER.

Paris Green..... 1 lb.
Lime (fresh)..... 1 lb.
Water..... 200 gals.

For insects which eat foliage.

Bucket Brass Spray Pump and Fire Extinguisher WITH AGITATOR.

THIS spray pump is constructed entirely of brass, a material that is not affected by the poisonous arsenites used in different formulas for spraying fruit trees, vines and shrubbery. It is so arranged that the labor of pumping is all done on the downward stroke of the piston and nothing on the up.

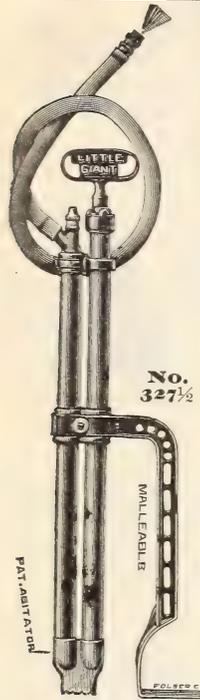
It is provided with a large air chamber, and has a ball valve at the bottom between the cylinder and the air chamber, whereby the pressure is held uniform in the air chamber and on the hose so that the nozzle throws a continuous spray, and is not affected by the movement of the plunger. The operator is enabled to keep a constant pressure on the nozzle of from 50 to 100 pounds with very ordinary exertion. It will throw a solid stream 50 feet and is of unusual value for washing windows, buggies, and extinguishing fires, sprinkling lawns, flowers, etc. For spraying it is arranged so as to discharge a fine jet in the bottom of the bucket and keep the solution thoroughly mixed and agitated, a feature peculiar to this pump only, and a very necessary feature to a spray pump. This pump is also provided with a sprinkler for flowers.

Price List of Pump shown

| | Retail price. | List price |
|---|---------------|------------|
| No. 327½ Bucket Brass Spray Pump with Agitator, complete with hose and combination fine, coarse, spray and solid stream nozzle. | \$2.50 | \$5.00 |
| No. 328 Bucket Brass Spray Pump with Agitator, complete with hose, combination fine, coarse, spray and solid stream nozzle and an 8-ft. pipe extension..... | \$2.75 | \$5.50 |
| Vermorel or Bordeaux nozzles, each..... | .60 | 1.00 |



Fig. 669.



No. 327½

The G. & T. Prize Brass Spray Pump.

WITH RETURN STREAM AGITATOR.

WITH BRASS WORKING PARTS AND MALLEABLE IRON FOOT REST.

The Agitator being in the lower valve, stirs the spraying liquid thoroughly, and in addition the strainer is kept free from sediment. It is furnished with Acme nozzle, and will throw a fine spray or a solid stream.

PRICE LIST.

| | Retail Price. | List Price. |
|---|---------------|-------------|
| Fig. 669—"Prize" Bucket Spray Pump..... | \$2.25 | \$4.50 |



SPRAY NOZZLES, ETC.

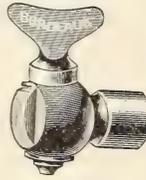
The Bordeaux.

| | |
|-------------------|--------|
| Retail price..... | \$.60 |
| List price..... | 1.00 |

The Vermorel.

| | |
|-------------------|--------|
| Retail price..... | \$.60 |
| List price..... | 1.00 |

Combination Nozzles and Hose Coupling.
Price.....15 cents.



KNAPSACK SPRAY PUMPS.

The tank holds five gallons, is fitted with lid and strainer, which can be removed. This pump has lever, large air chamber, ball valves, solid plunger and agitator. It is so arranged that no water can drip on the operator. The pump can be removed easily and is fitted with handle so the operator can use it the same as our tank with bucket pump.

| | Retail Price. | List Price. |
|--|---------------|-------------|
| No. 330—Fitted with 5 feet of ¼ inch hose, pipe extension and Bordeaux spray nozzle, which can be graduated from a fine mist to a solid stream, or shut off entirely.. | \$5.00 | \$10.00 |
| Any other nozzle furnished with these pumps when ordered. | | |

THE PERFECT KNAPSACK SPRAY PUMP.

Is identically the same as above, with the exception that the tank is constructed entirely of copper.

| | Retail Price. | List Price. |
|---|---------------|-------------|
| No. 331—Complete, with hose, stop cock, pipe extension and Bordeaux nozzle..... | \$8.00 | \$16.00 |
| A first-class outfit at a reasonable price. | | |



No. 330.

THE FOUNTAIN SPRAY PUMP.

For Spraying Potatoes, Cotton, Trees and Vines with Paris Green, London Purple or any soluble mixture.

The annexed cuts represent the *Fountain Knapsack*, which is constructed of first quality galvanized iron, with round corners, built precisely the same as the regular Knapsack with removable strainer and tight lid. It is fitted with adjustable straps so as to be carried on the back, or it can be carried by bail as shown by dotted lines.

It is tapped at both right and left hand lower corners and fitted with brass female ends to which hose is attached, either one or two strings of which may be used at one time. When one hose only is used the other opening is closed with a metal plug furnished for that purpose.

The HOSE and TUBS are made of the best white rubber and wired at end. The VALVES are made of brass and will not corrode; have large openings which permit the free flow of water and shut off instantly when under pressure.

The NOZZLE is made of brass, nickel plated; has fifty small openings, and throws a spray six feet wide at a distance of twelve feet.

The pump is operated by grasping the bulb in the hand and compressing it, which causes a spray to be thrown any distance from three to fifteen feet, as desired; on relaxing the pressure on bulb it expands, refilling instantly, when the same operation can be repeated. To shut off flow of water entirely, use valve on hose for that purpose.

We furnish this hose and fixtures to be attached to a barrel or tank placed on a wagon. This is desirable when spraying large fields of cotton or potatoes.

CAUTION.—Always mix Paris Green or London Purple in a separate vessel, forming into a paste before adding the water. In this way everything will be dissolved and will not need to be agitated.

| | | |
|--|--------|--------|
| No. 332—Fountain Knapsack Spray Pump, with one tube, rubber bulb and rose..... | \$2.50 | \$5.00 |
| No. 333—Fountain Knapsack Spray Pump, with two tubes, rubber bulbs and roses, to work with both hands..... | 3.50 | 7.00 |
| Extra tube, rubber bulb and rose..... | 1.00 | 2.00 |



Holds 5 gallons, weighs 52 lbs. when full. All Working Parts are Brass.

The "Advance Age" Kerosene Sprayers.

We think it well to call this line of Sprayers the "ADVANCE AGE," and designate them under three heads, viz., the "Weed," the "Success," and the "Peerless."

TO OBTAIN THE OBJECTIONS TO THE MORE extended use of kerosene as an insecticide, for several years past the manufacturers have been at work in perfecting some sprayers whereby the kerosene may be mechanically mixed with water during the process of pumping.

THE KEROSENE is placed in a separate tank connecting with the pump cylinder by means of a suction pipe. A suction pipe also connects with the water reservoir, so that both kerosene and water are forced through the pump at each stroke of the plunger. The mixing of the liquids takes place partially in the pump, but more largely in the nozzle, where they are divided into the very finest particles in the shape of a mist-like spray.

THE PROPORTION OF OIL is controlled by means of a valve in the kerosene tank. This valve is connected with the indicator on the top of the tank by means of a rod.

The figures on the gauge indicate the per cent. of oil to the entire mixture which will be pumped when the indicator is placed at the different per cent. marks. Thus when the indicator points to 10 the valve in the kerosene tank is closed so that pure water will be pumped. By turning the indicator a certain amount, the check valve controlling the oil is allowed to raise a definite height, thus allowing a definite amount of oil to pass into the pump cylinder.

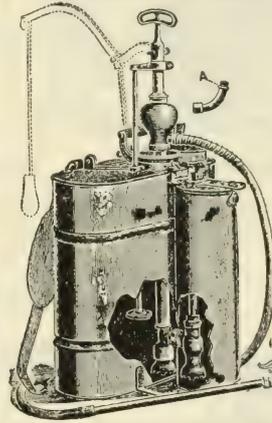
The proportion of oil does not vary except as the oil indicator is turned.

EXAMPLE:—To make a mixture containing fifteen per cent. oil—the proportion we recommend for general use—it is only necessary to fill the main tank with water and the smaller one with kerosene, turn the indicator to the fifteen per cent. mark, and the apparatus is ready for use. A new proportion of oil may be obtained by simply changing the position of the indicator. When the position of the indicator is changed, however, the new proportion will not be obtained until a few strokes have cleared the mixture already in the pump.

Table showing uses of Kerosene Sprayers and the per cent. of Oil required.

| Position of Indicator showing per cent. of Oil. | Uses of the different proportions of Oil. |
|---|---|
| 0 | Pure water will be pumped when the oil valve is closed. |
| 5 | Seldom used. |
| 10 | Mealy bugs, scale insects and plant lice on tender plants. Horn flies on cattle. <i>Will not injure the foliage on tender plants.</i> |
| 15 | Scale insects and plant lice of all kinds, except on tender house plants. All caterpillars exposed on leaves, cabbage worms, ants, chinch bugs on corn. <i>Will not injure ordinary foliage.</i> |
| 20 | Scale insects and plant lice not killed by 15 per cent. of oil. Lice on cattle, dogs, horses and poultry. Mites in poultry houses. <i>Will rarely injure ordinary foliage.</i> |
| 30 | Lice on hogs. Fleas on cats, dogs, etc. <i>Cannot be used on foliage without injury.</i> |
| 40 | Ticks on Cattle. |
| 50 | For the winter treatment of scale insects. |

The "Weed" Kerosene Sprayer.



In this figure we show the outfit as a Bucket Sprayer, the dotted lines showing the handle and lever when in position, when used as a knapsack.

It is in effect a Bucket, a Knapsack and a Kerosene Sprayer in one. The kerosene tank is readily detached from main tank and a cap is furnished with which to close the oil inlet. Very simple. Complete with under Sprayer and Agitator.

List..... \$18.00
Retail..... 13.25

The "Peerless" Kerosene Sprayer.

Copper Tank and Brass Pump. Fig. 529.

This outfit has been designed for use in orchard spraying with kerosene for the destruction of scale insects and plant lice.

Our Peerless Kerosene Sprayers will accomplish this much needed work of destroying the scale insects easily, cheaply and speedily. The work may be done at any season of the year, and is accomplished in the same manner as in ordinary orchard spraying.

An extra suction pipe and our mechanical agitator are furnished with this outfit, so that the kerosene tank, suction pipe, etc., may be removed and the extra suction pipe and agitator used. The outfit then becomes the use in the application of the Bordeaux mixture and the arsenites. This outfit is furnished with either iron or brass air chamber, as listed below.



Peerless Barrel Sprayer for use in the application of the Bordeaux mixture and the arsenites. This outfit is furnished with either iron or brass air chamber, as listed below.

| | Iron Air Chamber. | | Brass Air Chamber. | |
|--|-------------------|---------|--------------------|---------|
| | List. | Retail. | List. | Retail. |
| Fig. 529, Pump only..... | \$26.00 | \$13.50 | \$30.00 | \$16.00 |
| Outfit A—Pump with 12½ ft. of ½-in. hose and Bordeaux nozzle, with pole connection.... | 30.50 | 16.00 | 34.50 | 18.50 |
| Outfit B—Pump with two 12½ ft sections of hose, Bordeaux nozzles and pole connections. | 35.00 | 18.50 | 39.00 | 21.00 |

The "Success" Kerosene Sprayer.

With Removable Kerosene Tank.

Improved Combination Foot Rest and Bucket Clamp.

Figure 649.

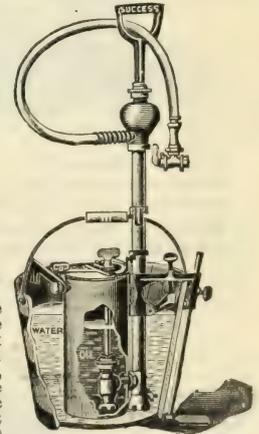
THE SUCCESS KEROSENE SPRAYER

consists of our G. & T. Prize Sprayer with a kerosene attachment. The oil tank may be readily removed and a cap, which we furnish, placed on the oil inlet. The outfit then becomes the same as the G. & T. Prize Bucket Sprayer (Fig. 669 opp. page.)

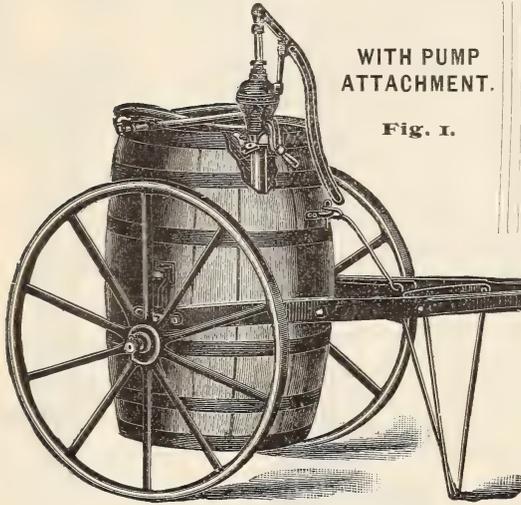
THE OPERATION AND USES of the kerosene sprayers have already been explained, which read carefully. The Success Kerosene Sprayer makes a most convenient article for general use in spraying shade trees, poultry houses and flowers.

Fig. 649 has 4 feet of discharge hose with Bordeaux Nozzle.

| | Price List: | List. | Retail. |
|---|-------------|---------|---------|
| Fig. 649, complete as in cut..... | \$10.00 | \$10.00 | \$6.50 |
| Seven-foot section of hose and couplings, with pole connections, for 649..... | 2.00 | 2.00 | 1.00 |



Combination of Barrel, Truck, Hand Cart, Sprinkler, and Barrel Force Pump, Leaf Rack, etc.



WITH PUMP ATTACHMENT.

Fig. 1.

This cut represents our Barrel Cart, with "Gem" 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. 2.—Truck, with Leaf Rack Attachment.

Fig. 1 shows Truck and Barrel with Gem Spray Pump Attachment.

Fig. 2 shows Truck with Leaf Rack Attachment.

Fig. 3 shows Truck and Barrel with Sprinkler Attachment.

Fig. 4 shows Truck and Box.



Fig. 3.

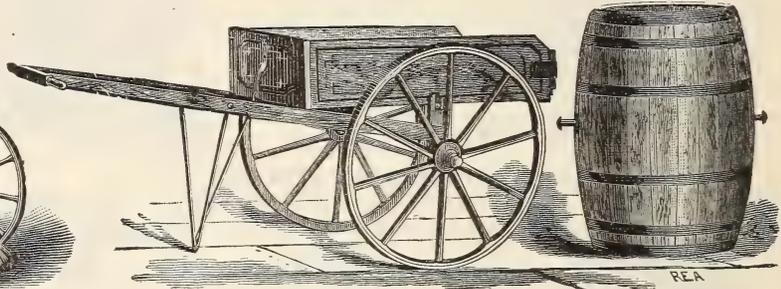


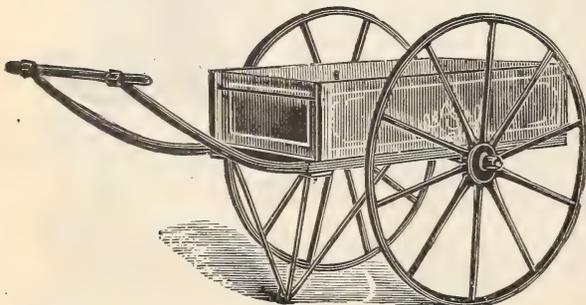
Fig. 4.

| | |
|---|---------------|
| Water Truck..... | \$5 50 |
| Water Truck and Barrel..... | 7 75 |
| Water Truck and Box..... | 7 75 |
| Water Truck, Barrel and Box..... | 10 00 |
| Gem Spray Pump Attachment..... | 5 00 |

| | |
|-----------------------------------|---------------|
| Sprinkling Attachment..... | \$3 00 |
| Leaf Racks..... | 4 00 |
| New Barrel..... | 2 25 |
| Box..... | 2 25 |

For 2½-in. tires on trucks, add to the above prices \$1.00

For 4-in. tires on trucks, add to the above prices \$1.50



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..... | \$ 9.00 |
| List..... | 10.00 |

ALL KINDS OF MACHINERY REPAIRED.

For spraying Paris Green and other insecticides on Potato Plants, Shrubs, Small Trees, House Plants, Live Stock and Poultry. A great labor-saver on every farm, and in every garden, barn, greenhouse, orchard and henryery. It will apply the finest possible spray on any object desired, and exterminate any kind of insect life. Will not corrode. Easily filled, easily emptied. One can full will poison bugs on 600 to 800 hills of potatoes.

Liquid Atomizer.

Price, Brass Atomizer.....\$1.00
 Price, Tin Atomizer......50



For Directions see page 66.

New Gem Tin Double Sprayer, 60c.

New Gem Brass Double Sprayer, \$1.10

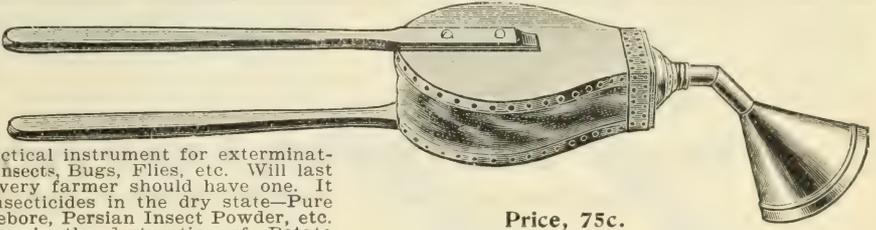
Daisy Force Pump and Sprayer.

It is indispensable for killing bugs and insects on VINES, VEGETABLES and FRUIT TREES, showering windows, carriages, and various other uses.

For Farmers, Gardeners, Nurserymen, Fruit Growers and Housekeepers. Price, \$1.25

easy to operate. Has rubber hose. The spray nozzle simple and effective, and when taken off a solid stream is produced. Not liable to get out of order. Plunger is of iron and oiled wood, and valves perfect. Will throw solid stream on ordinary high windows and roofs. Always ready for use.

Acme Powder Gun.



Is a simple, practical instrument for exterminating all kinds of Insects, Bugs, Flies, etc. Will last a lifetime, and every farmer should have one. It will handle all insecticides in the dry state—Pure Paris Green, Hellebore, Persian Insect Powder, etc. It is very effective in the destruction of Potato Bugs, Currant Worms, and all like pests, and for the wholesale destruction of house flies, using freshly-ground insect powder, cannot be excelled.

Price, 75c.

Acme Powder Gun is well made, constructed with a solid hardwood head block, hardwood handles, best leather for the bellows, (an extra elbow is furnished to tilt the funnel for getting under leaves of plants of shrubs) and is well finished throughout.

For Potato Bugs only requires the usual amount of Paris Green, and does its work easily, quickly and well.

The Deming Field Sprayer.

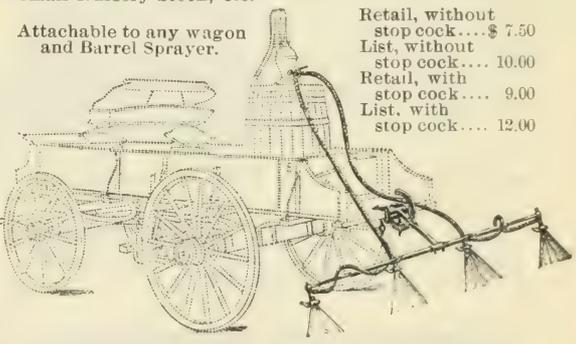
For Spraying Potato Plants, Strawberry and Cotton Plants, Small Nursery Stock, etc.

Many of the special potato spraying outfits are run by a geared contrivance attached to the wheels, and these machines waste fully one half of the material used.

Attachable to any wagon and Barrel Sprayer.

Retail, without stop cock....\$ 7.50
 List, without stop cock.... 10.00
 Retail, with stop cock.... 9.00
 List, with stop cock.... 12.00

THE POTATO SPRAYING APPLIANCE shown in the accompanying cut is intended to be attached to any barrel sprayer. The outfit may be placed on the end of a wagon or truck and the two sections of hose connected with the spray pump. The four BORDEAUX NOZZLES are adjustable for any width of rows, from 30 to 40 inches, and may be raised or lowered as desired. The nozzles should be directly over the rows to be sprayed. The nozzle holders may be brought together so that the wagon can pass through any gate.



WITH THIS OUTFIT one person can do all the work of spraying, for all that is necessary, after the preliminary work of filling the spray barrel, etc., is to drive and pump. At the end of the rows the spray can be shut off at the pump, on either or both sides, by means of the three-way cock. With this appliance any barrel sprayer having discharge hose connections can be used.

angle with the ground. Will spray backward or forward at an angle of 45 degrees, having a movable radius of 90 degrees, the entire change being controlled from the wagon.

The machine has a long arm (not shown in cut), used for setting the row of nozzles at a higher or lower point, the small rod, with handle, being for the purpose of turning the nozzles at a different

The Miller Junior Sprinkling Carts.

\$75.00.....f. o. b. factory.
 \$85.00.....f. o. b. Baltimore.



The above Cart is adapted for use in cemeteries, parks, private grounds, flower and truck gardens, and can be used for sprinkling or for carrying water. The barrel holds 160 gallons, and is mounted on two wheels with 4-inch tires. The wheels are 4 feet 6 inches center to center, and 4 feet 6 inches high. The axle is of solid steel, 15-8 inches thick.

The Sprinklers are brass, and controlled by the driver, he being able to throw to the right or left, or both sides, at the same time, and the Sprinklers are so arranged that the spray can be made very wide or very narrow and of any desired width. The water issues from an adjustable slot, and will pass such small obstructions as may be found in manure water. The barrel is fitted with a faucet, to which 3-4-inch garden hose can be attached. The cart is in every way first-class.

(Prices for Street Sprinklers furnished on application.)

THE LAWN

There is nothing that contributes more to the appearance of a Country Home than a well-kept lawn. Owners of fine residences, keepers of parks, city squares, cemeteries, etc., now fully recognize this fact, and are giving the matter very much more attention than formerly.

The farmer also is progressing in this line, realizing that well-kept surroundings are indicative of prosperity and thrift.

Some years ago only a few paid comparatively much attention to beautifying their places in this manner, but today mowers can be bought so low that even the resident of the city, who has but a small grass plat in his side yard, can well afford to cast aside the primitive grass hook.

On the following pages, devoted to this department, will be found one of the most comprehensive and extensive lines of LAWN MOWERS offered by any house in the country.

To the man who makes it a business of cutting lawns, parks, squares, cemeteries, etc., or anyone who has much cutting to do, we advise the use of nothing but the BEST, for many reasons, prominently among the first being nicely adjusted machines. They will do better work, last longer and run lighter.

Think for a moment how few days' work it will

require to pay the difference between a first-class mower and a cheap one; and how many days' work can be saved by using the light-running machines, enabling the operator to use a wider cut by reason of the draft; then again, **HOW MUCH BETTER THE APPEARANCE OF THE LAWN.**

We claim that in consideration of the **LARGE NUMBER OF MACHINES THAT WE REPAIR** each year, we become better posted in the construction of LAWN MOWERS than other dealers, and are, in consequence, necessarily in a better position to judge them. In this connection, we desire to state that the repairing of Lawn Mowers has become quite an adjunct to our business. Employing efficient mechanics for this work, we know that when a machine leaves our shop it is just right, and frequently in better condition than when it left the manufacturer, who cannot give each machine the thorough inspection that we do.

A few years ago we introduced through this section the **GOLF LAWN MOWER**, the golf course requiring a much closer and more even cut than can be done with the ordinary machine, and we give below cut and description of this variety of machine, known as the **Scotch Golf Mower**, but before coming to that, we first place the

"Druid" Ball Bearing Lawn Mower,

with Four Revolving Knives, Driving Wheels 10 inches in diameter.

The superiority of BALL BEARINGS is now universally conceded, combining **EASE OF DRAFT** with the least possible **FRICTION**.

The only requirement being that they must be thoroughly made and perfectly hardened. In the "**DRUID**" Lawn Mower we offer a machine that in every respect is equal in workmanship to the highest grade Bicycle.

The Revolving Knives run on twenty-eight 1-4 in. cast steel Balls, fourteen at each end.

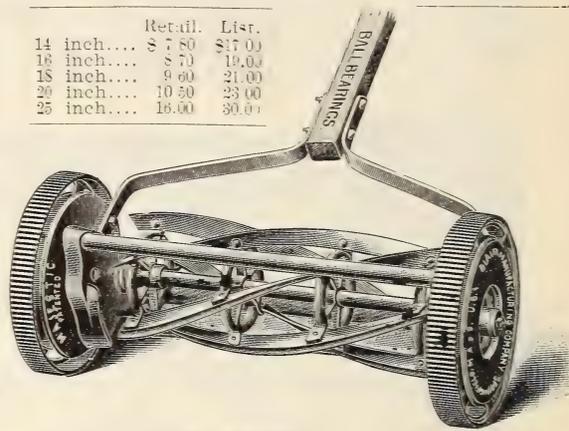
The Ball Races and Adjusting Cones are also made from cast steel, and perfectly hardened and ground. As a result, the Mower runs easily, remains in adjustment, and does better work than is possible with parallel bearings, which tend to wear out of true and allow "lost motion" to the knives.

The use of Ball Bearings in a Lawn Mower makes necessary a rigid frame.

The frame of the "**DRUID**" is constructed with the greatest possible care, and is warranted to hold the cutting edges true and in alignment, though subjected to the hardest use.

In short, the "**DRUID**" LAWN MOWER is designed for a machine of higher grade than has heretofore been attempted, and is offered as the perfection of Lawn Mowing Machines.

| | Retail. | List. |
|-------------|---------|---------|
| 14 inch.... | \$ 7.50 | \$17.00 |
| 16 inch.... | 8.75 | 19.00 |
| 18 inch.... | 9.60 | 21.00 |
| 20 inch.... | 10.50 | 23.00 |
| 25 inch.... | 16.00 | 30.00 |



HIGH WHEEL.



The Scotch Golf Lawn Mower.

The increasing demand for a Lawn Mower for cutting golf grounds has caused us to have made for us a Lawn Mower that will do this class of work in a most thorough manner. It is made from patterns which have been used in England for the past twenty years, and has the approval of the most exacting golf clubs of that country.

It has five revolving knives, running at high speed, and will cut the lawn as close and smooth as a carpet. We offer this Mower for doing the work for which it is intended as being the best the market affords.

Price:

| | |
|-------------------------------|---------|
| 10 inch | \$ 7.00 |
| 12 inch | 8.00 |
| 14 inch | 9.00 |
| 16 inch | 10.00 |
| 18 inch | 11.00 |
| 20 inch | 12.00 |
| 24 inch cut, for two men..... | 15.00 |

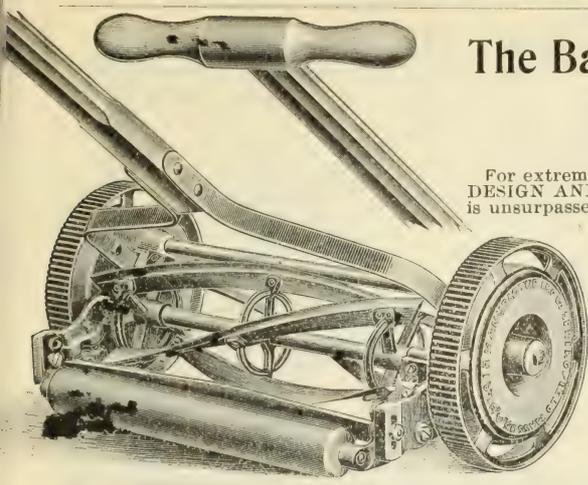
The Baltimore High Wheel Mower

DRIVING WHEELS, 9 inches Diameter.
CUTTING CYLINDER, 6 inches Diameter,
with FOUR KNIVES.

For extreme EASE of OPERATION, SIMPLICITY, DURABILITY,
DESIGN and FINISH the BALTIMORE HIGH WHEEL MOWER
is unsurpassed.

All of the essential features in best lawn mower construction have been incorporated of the BALTIMORE. It has the Patent Rocker Adjusting Journals for the cutting cylinder, compensating for wear upon all sides of the shaft; patent double-bearing, double-toothed Ratchet and Pawl connection, which positively avoid all friction while the Mower is in operation, and thereby causing it to run much easier than any other machines (with one exception, the "DRUID"). It is made of first-class material and workmanship and will do the most perfect work.

| | |
|--------------|--------|
| 14 inch..... | \$7.00 |
| 16 inch..... | 7.50 |
| 18 inch..... | 8.00 |
| 20 inch..... | 8.50 |

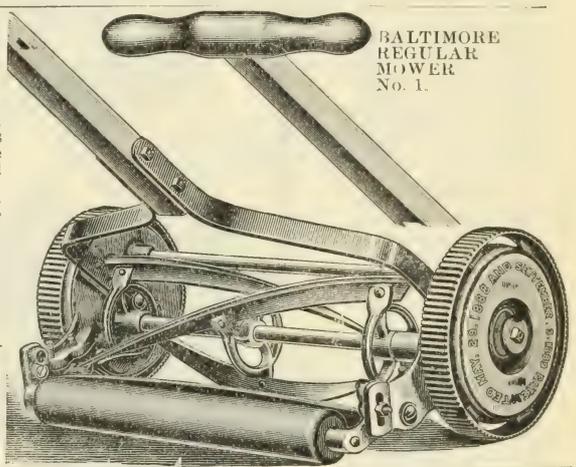


BALTIMORE REGULAR MOWER No. 1.

8 inch wheels, 3 Blades.

An open cylinder machine, strong and durable. Made of the best material; nicely finished, and is first-class in every respect. Though a moderate priced Mower, is by no means a cheap one, for all realize that cheap goods are dear at any price. This Mower is built on the same lines as the Baltimore High wheel, but has three blades; is lighter in weight, and has an 8-inch instead of a 9-inch, hence the difference in price.

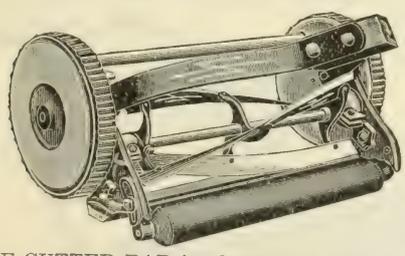
| | |
|---------------|--------|
| 10 inch | \$3.00 |
| 12 inch | 3.50 |
| 14 inch | 4.00 |
| 16 inch | 4.50 |
| 18 inch | 5.00 |



BALTIMORE
REGULAR
MOWER
No. 1.

The Maryland Regular Mowers, No. 1

The Ratchet on this machine is simple and positive, having for a pawl a Solid Steel Ball, which works in a pocket in the pinion when the machine is not in motion, and by the action of the pinion when in motion this ball is thrown into a corresponding pocket in the back cap, which locks the two together, thus driving the reel.



THE CUTTER BAR is of solid steel, and has no cast iron parts. The adjustment is from the reel, and is perfectly simple. It is not necessary to turn the mower upside down to adjust it. Having a reel adjustment, the Cutter Bar is bolted firmly to the machine, and therefore holds the mower firmly in line. The Cutter Bar adds strength to the mower instead of weakening it.

All parts are interchangeable, and in case of wear or breakage, can be at once duplicated.
Diameter of Traction Wheels, 8 1/4-4 inches.
Diameter of Wheel, 5 1/2-2 inches.
Made in 12, 14, 16 and 18 inch sizes.
Painted in Red and Green and decorated in Gold.

| | |
|---------------|--------|
| 12 inch | \$2.50 |
| 14 inch | 2.75 |
| 16 inch | 3.00 |
| 18 inch | 3.25 |

Maryland High-Wheel Mower.

The cutter-bar and boxes for reel shaft are ADJUSTABLE to COMPENSATE FOR WEAR. Bronze boxing for reel shafts. Adjustment of handle is an important feature, being arranged at lower end, so that it is instantly adjustable for a child or grown person. The reel and cutter-bar knives are made of crucible steel.

| | | |
|-----------------|-----------------|-----------------|
| Retail Price: { | 14 inch, \$5.50 | 16 inch, \$6.00 |
| | 18 inch | \$6.50 |

UNIVERSAL GRASS CATCHER.

A Grass Catcher that will fit any mower. Canvas body, Blacked sheet, steel bottom.
Two sizes. No. 1 will fit 10, 12, 14 and 16-inch Mower, and No. 2 will fit 16, 18 and 20-inch.
Price.....\$1.00

THE CANVAS GRASS CATCHER.

Instantly self-adjustable.
Instantly self attachable.



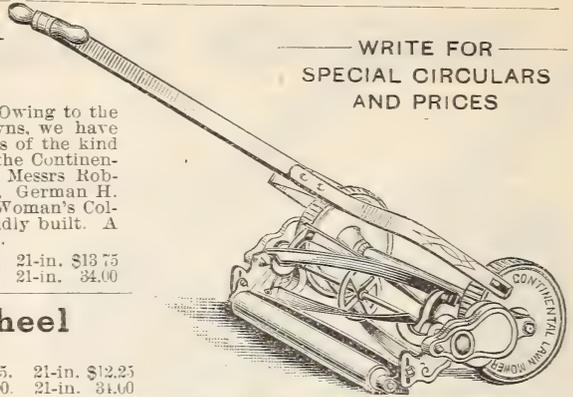
Price \$1.00

The Continental High Wheel Mower.

A distinct type of machine in popular favor. Owing to the demand for a High-Wheel Mower for uneven lawns, we have secured what we consider one of the best machines of the kind made. Every customer is more than satisfied with the Continental. In use at Patterson Park, and on the lawns of Messrs Robert Garrett, William H. Whitridge, K. B. Smith, German H. Hunt, Edward A. Griffith, at Church Home, the Woman's College of Baltimore City, and many others. Splendidly built. A full stock of machines and repairs always on hand.

Retail prices, 15-in. \$10.00, 17-in. \$11.25, 19-in. \$12.50, 21-in. \$13.75
List prices, 15-in. 25.00, 17-in. 28.00, 19-in. 31.00, 21-in. 34.00

— WRITE FOR —
SPECIAL CIRCULARS
AND PRICES



Pennsylvania High Wheel Mower.

Retail prices, 15-in. \$ 9.00, 17-in. \$10.25, 19-in. \$11.25, 21-in. \$12.25
List prices, 15-in. 25.00, 17-in. 28.00, 19-in. 31.00, 21-in. 34.00

Philadelphia Lawn Mower
STYLE C.

Medium High Wheel. Open Wiper. Four Blades.
Retail prices, 14-in. \$ 6.25, 16-in. \$ 7.00, 18-in. \$ 7.75, 20-in. \$ 8.50
List prices, 14-in. 17.00, 16-in. 19.00, 18-in. 21.00, 20-in. 23.00

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.

"THE BALTIMORE"
HORSE LAWN MOWER

**EFFICIENT
MECHANICS
TO REPAIR
LAWN
MOWERS.**

| | | |
|---|---------------|-------------|
| | Retail price. | List price. |
| 25 inch Machine, with Draft Rod..... | \$45.00 | \$65.00 |
| 30 inch Machine, with Draft Rod..... | 65.00 | 100.00 |
| 30 inch Machine, shafts and seat..... | 70.00 | 110.00 |
| Less \$5.00 on each Horse Mower for cash from retail price. | | |

NOTICE.

We make a specialty of repairing Lawn Mowers for which purpose we employ efficient mechanics, and in this way become thoroughly acquainted with the construction of all machines on the market, therefore when you buy a lawn Mower, be sure to select one for which you can get repairs. The Baltimore is just such a machine.

The I. X. L. Philadelphia Pony and Horse Mower.

Prices of 30, 35 and 40 inch sizes include the Draft Rod Seats and Shafts.

All parts are lettered and interchangeable, and every mower will give perfect satisfaction. Are made from the best materials and finished by the latest approved methods of manufacture.

Retail prices, 30-in. \$ 60.00, 35-in. \$75.00, 40-in. \$ 90.00
List price, 30-in. 100.00, 35-in. 125.00, 40-in. 150.00

The Old Style Philadelphia Horse Lawn Mower.
With Draft Rod.

These Mowers are being used extensively in different sections of the country, and in this city they are giving entire satisfaction, in the public parks and large lawns.

Retail price, 30-in. \$ 60.00
List price, 30-in. 100.00



Horse Boots. — FOR USE ON LAWN.

No one who desires a well kept lawn will be without Horse Boots. They prevent the horse's shoes from cutting up the lawn. Made of leather, with heavy leather bottoms and will fit any horse's feet.

Per Set..... **\$8.00**

Hartman Improved Hitching Post.

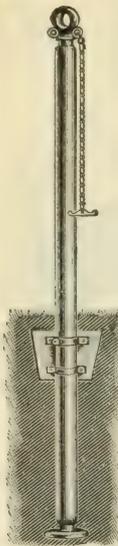
Cannot be broken or pulled out.

Made of tubular steel, thoroughly painted.

Anchored at the bottom and at the ground level.

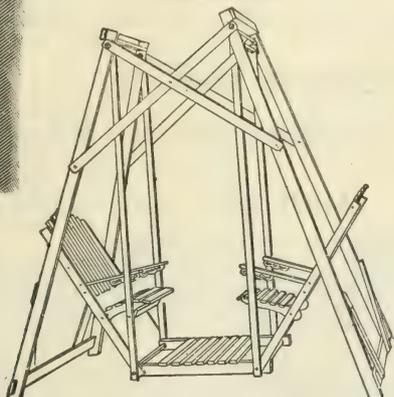
These Posts furnished with Weldless Steel Chain and Spring Snap, complete.

Price, complete.....\$1.50



The Arctic Lawn Swing and Hammock.

COMBINED.



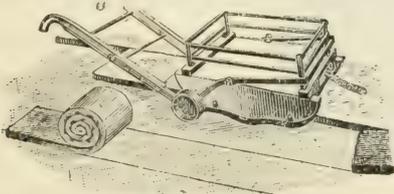
The Arctic Swing and Hammock affords the most comfortable lounging place you can find, and as the backs of the chairs are adjustable, they can be set up as straight or incline at as great an angle as you wish.

AS A HAMMOCK.—By raising the platform to a level with the seats, you have a most comfortable hammock. It is built of the best hardwood lumber, with a carrying capacity of two adults, but is strong enough to carry six children.

Handsomely painted in deep red or oak, and nicely varnished.

There is nothing more conducive to an afternoon siesta or a pleasant chat with your best girl, than one of these swings under a shady tree.

Price, Arctic No. 2.....\$7.00



Richmond Sod Cutter.

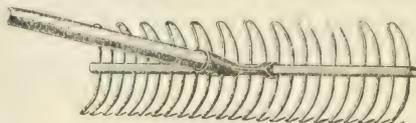
This machine is meeting with Great Success with railroad men and others. Parks, lawn and station grounds can be beautified at a low minimum of cost. It cuts the sod of uniform width and thickness, in any length, so that it is particularly adapted to giving solidity to slopes in cuts and on embankments, cutting equally well on line or uneven surface, cutting both ways with the land, leaving no sod uncut. Light draft; easily managed; strong, neat and durable. Our machine will cut 30,000 to 40,000 square feet per day, doing the work of 40 men, a saving of \$35.00 per 30,000 square feet. Expense saved between cutting by hand and horse power in one day will pay for machine. Full directions for using with each machine.

12 in. machine (horse).....\$20.00
14 in. machine (horse).....\$21.00

Queen All-Steel Lawn Rake.

Reversible, heavily tinned.

In this rake there is no opening in front or back of head in which to collect dirt. As can be seen by the shape of the teeth, they run smooth, and will not dig in the sod. The steel head of this Rake is in the form of an egg-shaped tube, with the greatest width in the line of strain, which is the stiffest



form possible, and, being closed, will not collect dirt in the head. The teeth being bent at the points, makes the Rake run smooth, and will not tear the soil. By reversing, the double teeth are used for leaves and rubbish.

21 inch head, 24 teeth.....50 cents

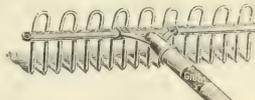
The Boss Garden Rake.

(Strong, All Steel, Tinned, Cheap.)

No. 18—15 3/4 inch Head, 18 Steel-pointed Teeth.....40c.
Boss 6-Tooth Weeder.....25c.

It is light, well braced, and very durable.

Head is of steel, specially formed for stiffness and strength.



The teeth are made from tough steel rods, and WILL NOT BREAK, therefore are superior to forged teeth. They are solidly held in place.

The socket is firmly secured to head without rivets or weld.

The double Teeth extending above the head are for breaking clods.

It is also well adapted for small lawns as a lawn rake, for stable use, and on gravel walks.

The handles are of selected ash, and all other parts being brightly Tinned, cannot rust or become shopworn.

Queen Steel Garden Rake.

NEAT, STRONG AND DURABLE; BRIGHT FINISHED; TEETH TWISTED.



The reverse side can be used to close furrow in planting seeds, and then rake over with toothed side.

14 teeth35c.
16 teeth40c.

Automatic Self-Cleaning Rakes.

With 22 teeth.....60c.
With 26 teeth.....70c.
Lawn King Rake, with 22 teeth.....40c.



LAWN RAKES.

A backward motion of the rake from the operator will clean all the teeth at once, thus avoiding the disagreeable task of cleaning the teeth with the fingers. The teeth are made of the best hickory, and will not tear the sod or grass.

**Superior
Steel
Rollers**
For Lawns and Parks,
Etc.

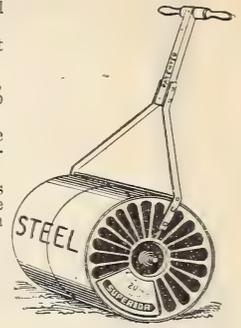
Wet soil and grass clippings will not stick to steel as they will to cast iron.

Smooth surfaces and close joints only will perfect lawn, walk or tennis court.

The sections are made of smooth rolled steel, without projection or roughness of any kind to gather soil or grass.

The axles are of polished machinery steel, and the journal boxes are lathe bored and babbitted to reduce friction.

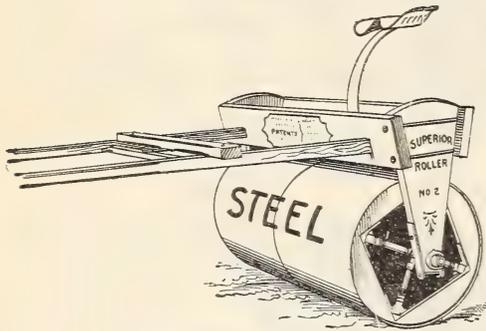
The handles stand erect automatically. The rims are cushioned to prevent breakage and deaden the disagreeable noise common to ordinary rollers when in use.



| | | | | | Av. wt., | List Price. | Retail Price |
|----------|----------|---------------|------------------|----------|----------|-------------|--------------|
| No. A.—1 | Section. | Track, 20 in. | Diameter, 20 in. | 250 lbs. | 275 | \$14 00 | \$10 50 |
| No. C.—2 | " | " 20 in. | " 20 in. | " | 400 | 15 00 | 11 25 |
| No. F.—2 | " | " 24 in. | " 24 in. | " | " | 21 00 | 15 75 |

Extra weight, 25 lbs. each, price \$1 25.

Superior Horse Lawn Roller.



This handsome line of rollers is made especially for use on

**Lawns, Parks, Public Grounds and
for Farm use.**

The edges of the drum rims are butted and double riveted, and present a perfectly smooth rolling surface without projection or inequality to collect dirt or grass clippings.

| No. and description. | Length. | Diam. | Av. wt. | List price. | Retail price. |
|----------------------|---------|--------|----------|-------------|---------------|
| 2 L.—2 Sections. | 4 ft. | 24 in. | 500 lbs. | \$25 00 | \$20 00 |
| 0 L.—8 Sections. | 5 ft. | 24 in. | 550 lbs. | 30 00 | 25 00 |

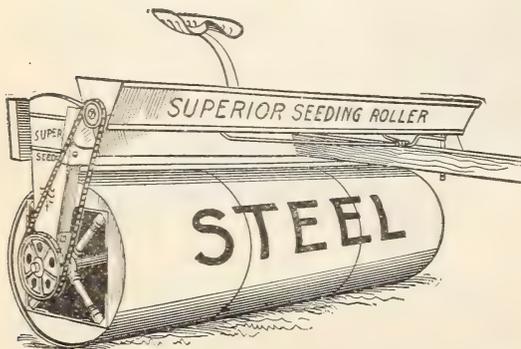
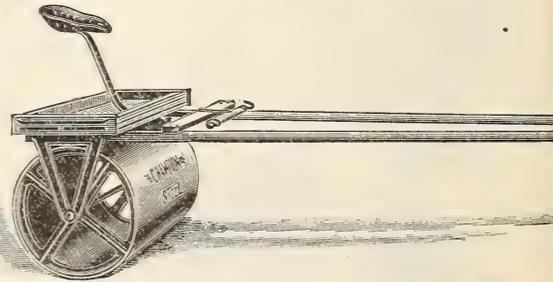
The Baltimore Horse Lawn Roller.

This Roller is furnished with seat.
We furnish this Roller in two sizes, Nos. 16 and 17. No. 16 (see cut) has 26-inch steel rim, 4 feet, one section, one-horse; weight, 375 pounds.

| | |
|--------------|---------|
| List | \$20.00 |
| Retail | 15.00 |

No 17 has 26-inch steel rim, 4 feet, two section, one-horse; weight, 425 pounds.

| | |
|--------------|---------|
| List | \$22.50 |
| Retail | 18.00 |



**Superior Field Rollers
Steel, No. 3.**

These are the same make of goods as seen at top of page, only this ROLLER has three sections of two feet each, six foot long; diameter, 24 inches; average weight, 550 pounds. Has no neck yoke or whiffletrees. They have a substantial hardwood weight box, which can also be used as a convenient way for clearing fields of loose stones.

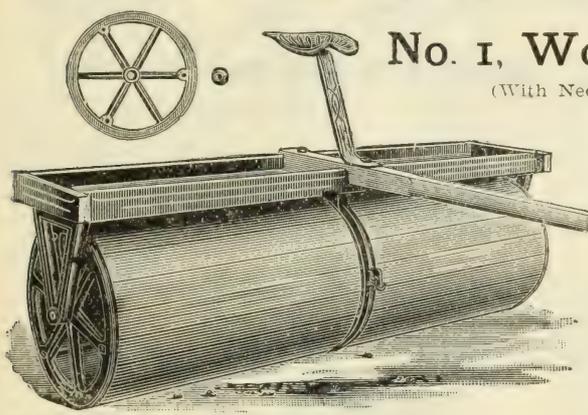
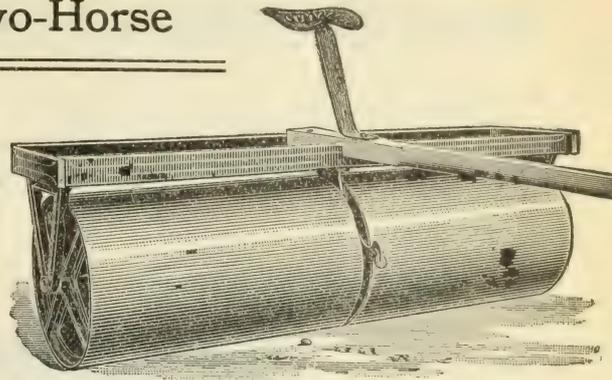
| | |
|--------------|---------|
| List | \$30.00 |
| Retail | 25.00 |

The Baltimore Steel Two-Horse Roller, No. 2.

Two sections; 8 foot; 26 inch steel rim; weight, 700 lbs; with neck yoke and whiffletrees. These Rollers are made with steel drums of special high carbon steel, riveted to two cast iron heads. The rolls revolve on a 1 1/4-inch round shaft, held stationary and in place with a set screw in each end hanger, making it strong and firm. Our Removable Chilled Bearing is worth your careful attention. It can be replaced at the small price of 25 cents. No Roller is complete without it.

Price Retail.....**\$20.00**
List..... **27.50**

Also special Cast Iron Rollers, 4 ft. diameter, can be furnished to order.



No. 1, Wood Field Rollers.

(With Neck Yoke and Whiffletrees.)

This Roller is made of all Oak Staves, left into a mortise or groove in casting, and held together by three long bolts, running lengthwise inside of roll to clamp the two castings together, instead of being bolted as most all Rollers are made.

27 inches Diameter, 2 Sections, each 3 ft. 9 in. Weight 700 lbs.

List.....**\$22.50**
Retail..... **16.00**

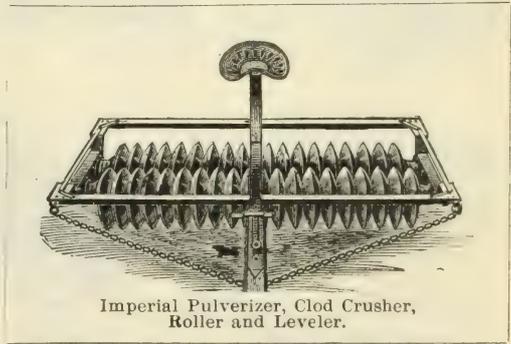
Imperial Pulverizer, Clod Crusher, Roller and Leveler.

PRICE, \$35.00

The "IMPERIAL" is composed of two sets of hollow disk rollers which turn upon a revolving axis, one set being placed directly behind and just in the centre 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, making the most perfect seed bed ever yet obtained.

To obtain the best results, the "IMPERIAL" should be used before and after sowing, and can be used on corn right after coming up, with a very good effect.

The "IMPERIAL" cuts 6 feet wide, weighs 800 pounds. Should that weight not be heavy enough, more can be added when necessary. We can make them to cut 7 and 8 feet, when so ordered.



Imperial Pulverizer, Clod Crusher, Roller and Leveler.

The draft is about equal to that of a common harrow.

The tongue is so attached to the frame that no weight rests on the horses.

The manner in which the chains are attached, together with the compound movement of the disks and axis, make the "IMPERIAL" by far the easiest pulverizer to "turn" there is on the market.

The chief principle upon which the "IMPERIAL" is constructed is the application of pressure upon the sides of the hard lumps, and not only the downward force given by Rollers.

Matthews' + *New Universal* + Model Garden Drill.

ONE OF THE STANDARD DRILLS OF AMERICA.

Simple in Construction. Neat in Design. Efficient in Operation.
None better can be procured.

Medals and testimonials confirming the superiority of the "Matthews" have been repeatedly bestowed upon it from all quarters, and as it has been improved from time to time it has always been acknowledged **one of the most Perfect Drills made.**

The present form is the neatest and simplest yet produced, and cannot fail of proving an even more popular modification of this reliable drill.

Our Retail Price, \$5.50
List Price, 6.00



PATENT SEED INDICATOR USED ON ALL GENUINE DRILLS.

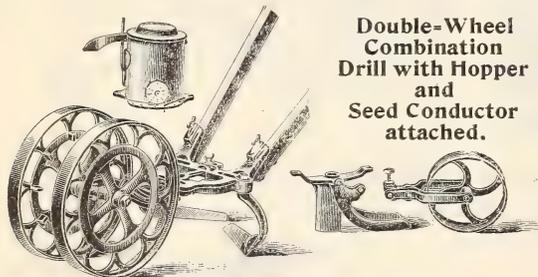
Seeding can be regulated to exact quantity desired.

Matthews New Universal Model Hill and Drill Seeder.

This implement is the same in style and working qualities as the one just described, but is arranged so as to drop the seed continuously in drills or at 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. There are no parts to wear or get out of order. 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.

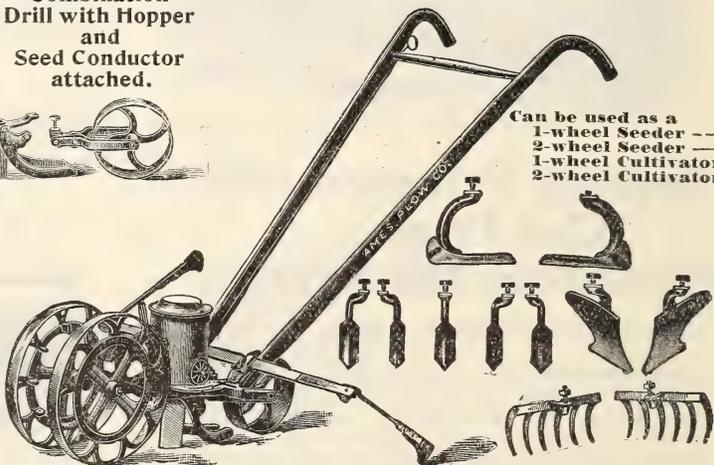
Our Retail Price, \$6.25

List Price, \$6.75



Double-Wheel Combination Drill with Hopper and Seed Conductor attached.

Loosening one thumb screw removes all Seeder Attachments, leaving frame clear for Cultivating Attachments.



Can be used as a
1-wheel Seeder --
2-wheel Seeder --
1-wheel Cultivator --
2-wheel Cultivator

MATTHEWS' *New Universal* Model Combination Drill

Double Wheel, with Hoe, Cultivator, Plow and Rake Attachments.
Our Retail Price.....\$7.50
List Price.....\$8.00

This is not only a desirable combination of the Garden Drill already described with the New Universal Cultivating Attachment, but it has the advantages of having either a double wheel or single wheel implement at will, the change from one to the other being readily made.

The use of a one wheel seed sower insures the nicer work, as if two wheels are used an obstruction under one wheel or the other has a tendency to crook the rows, and this makes after cultivation harder. The operator always has a one-wheel seeder under full control, and in addition the single wheel follows in the mark made when planting the previous row and presents a sight to keep the rows straight.

The two wheels are desirable, however, 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 seeding and covering attachments can be readily removed when the implement is used for cultivating. It is not necessary to remove the seed box, but it can be taken off if desired. The combination is one which cannot fail of recommending itself to all. The attachments are—

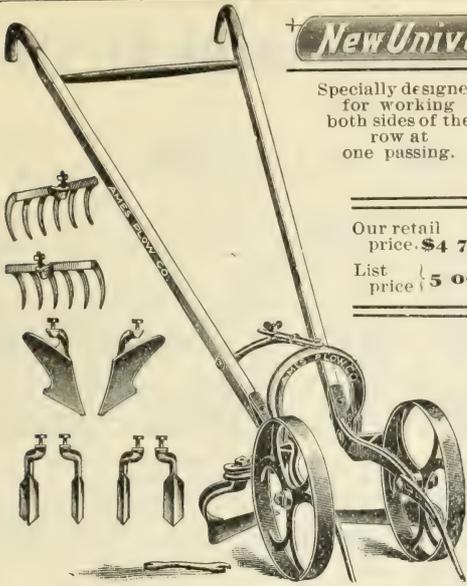
ONE (1) PAIR HOES,
ONE (1) PAIR RAKES.

FIVE (5) CULTIVATOR TEETH,
ONE (1) PAIR PLOWS.

Extracts from Prof. S. B. Green's report in Bulletin No. 38 of Minnesota Experiment Station, as published in the "Market Garden" for March, 1895.

"During the past year I have made a special study of garden implements best adapted for garden use. The (New Universal) Combination Drill and Cultivator is arranged to use either one or two wheels. The indicator is very simple in construction and easily handled. The agitator is sure to keep the seed moving through constantly. The depth of sowing can easily be regulated. The marker is well adapted for giving a clean track for successive rows, and is easily changed to different widths. A convenient cut-off is provided to use when turning at the ends of the rows to prevent loss of seed. The change from the drill to the cultivator can be made very quickly. For working the soil it has hoes, plows, rakes and cultivator teeth of good shape and size. It can be used successfully to open or close furrows. The machine is adapted to working on both sides of a single row with two wheels or between the rows. The manufacturers recommend for market gardeners instead of this combined implement separate implements to save the time of changes.

"The New Universal hand double wheel hoe, cultivator and plow is an implement of recent introduction having all the latest improvements. It contains a handy feature in the adjustable arch by which the depth of the cultivator teeth may be regulated. It may be used to work between the rows or to straddle one row."



New Universal

Hand Double Wheel Hoe, Cultivator, Plow and Rake.

Specially designed for working both sides of the row at one passing.

Our retail price **\$4 75**

List price **\$5 00**

The special recommendation is the Adjustable Arch, by which not only the depth of work can be gauged, but which, by an ingenious device, enables the teeth to be pitched at any angle desired.

It can be pushed straight ahead, but better results are obtained by using it same as a scuffle hoe, with successive strokes of length to suit the nature of soil and crop.

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 to 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.

The depth can be regulated by adjusting wheel arms in the three holes provided on each side of Arch.

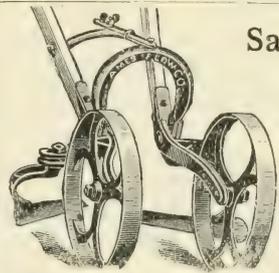
The depth can also be regulated by pitching the Arch by means of the Arch brace and the thumb bolt, where it connects, to lower handle brace.

THE LEAF GUARDS are to prevent wheels from injuring large, spreading foliage.

New Universal Hand Wheel Plow.



Our retail price..... **\$1 75**
List price..... **2 00**



Same as above with Hoe Blades only.

As seen in the cut, this is the same implement as above, but without the extra attachments for the use of those who may have on hand a supply of extras, and also those who have no occasion for more than the Blades attached.

Retail price..... **\$2 75**
List price..... **3 00**

This can be used to prepare the ground, to furrow out, to cover, and to cultivate. The mould board is of steel, polished and tempered.

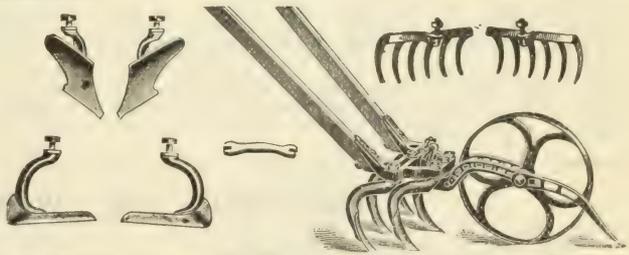
New Universal

Hand Single Wheel Hoe, Cultivator, Plow and Rake.

As with the Double Wheel Hoe, just 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 centre of frame. Later cultivation must be done between rows.

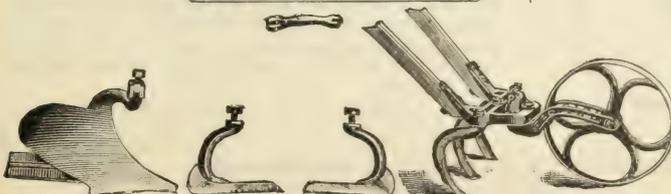
The attachments are one pair hoes, five cultivator teeth, one pair plows, one pair rakes and one vine or leaf guard.

Our retail price..... **\$4 00**
List price..... **4 25**



New Universal

"Flier" Hand Single Wheel Hoe, Cultivator and Plow.



This implement is same as our regular Single Wheel Hoe, except that at this price fewer attachments are furnished. They are one pair hoes, three cultivator teeth, and one large plow. If this style is wanted, be sure and order the "FLIER."

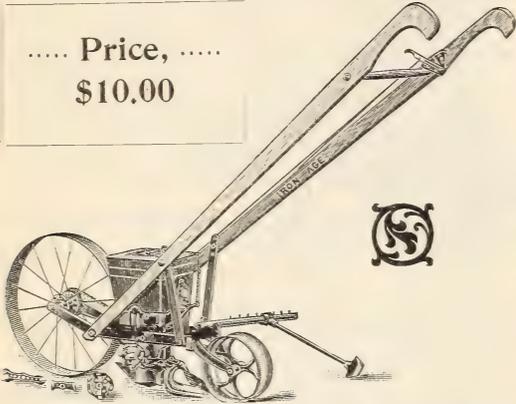
Our retail price..... **\$3 50**
List price..... **3 75**

“Iron Age” Wheel Hoes and Drills

FOR FIELD AND GARDEN WORK.

THE “IRON AGE” HILL AND DRILL SEEDER.

..... Price,
\$10.00



the cut seems only necessary to convince one of its many excellent points of advantage. The WHEEL is 16 inches high, made of steel, with a two-inch tread. The OPENING PLOW is clog proof, and can be instantly adjusted. The HOPPER is low, therefore, the delivery of the seed is close to the ground, thus making possible accurate spacing. Capacity, four quarts. The AGITATOR is a revolving bush, which makes it a sure feed, and sows absolutely all of the seed accurately, and without injury.

The distance of spacing the seed can be instantly changed by simply removing a small wheel at the side of the hopper and reversing it or by putting on another. It will drop at 4 1-2, 6, 9, 12, 18, 36 inches apart.

The change from a Hill Dropper to a Row Drill can be instantly made, or vice versa.

The amount of seed can be minutely adjusted by our patented cam index, one feature which has made the New Model so famous. The COVERERS are firmly held in place by a spring, thus avoiding all danger of not covering. The wheel rolls and packs the soil.

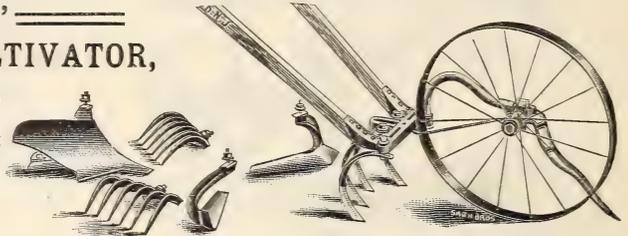
The flow of seed can be instantly stopped or started by a convenient finger latch on the handle.

Our patented marker can be changed in width by inches, and when not in use can be thrown up out of the way. It is light, strong, capacious, simple and finely made; in fact, the most severe critics can find no fault with it. Like other “Iron Age” goods, it is sold on its merits.

The “Iron Age” Hill and Drill Seeder is without question the most complete tool ever offered by the manufacturers of the “Iron Age” implements. It has only been placed upon the market after a most thorough experiment and field tests. A glance at

THE “IRON AGE” SINGLE WHEEL HOE, CULTIVATOR, PLOW AND RAKE.

Packed Weight, 23 lbs.



This tool is, in regard to the work done, almost a counterpart of the Double Wheel Hoe, and the same remarks as to its construction, extreme lightness and ease of operation, will apply with equal force.

In addition, its lower price, less weight and increased steadiness, given by a single wheel, make strong arguments in favor of this tool. For the small kitchen garden, we consider the single wheel hoe, with these points of merit, as being very valuable. The work is done principally between the rows, although plants of small growth can be hoed on both sides at once by placing the wheel on the left side.

With this single wheel tool, spaces of exceedingly narrow width can be worked, even using but one cultivator tooth. With the large plow attachment, deep furrows can be opened or closed; potatoes, celery and other crops hilled—in short, all such work usually accomplished by a special plow.

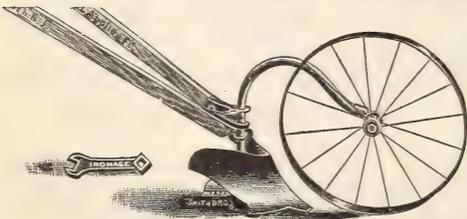
Price.....**\$4.50**

We also have a Weeder attachment for this tool similar to the one used on the double Wheel Hoe. A capital thing.

Price.....**75c.**

THE “IRON AGE” WHEEL PLOW.

Packed Weight, 15 lbs.



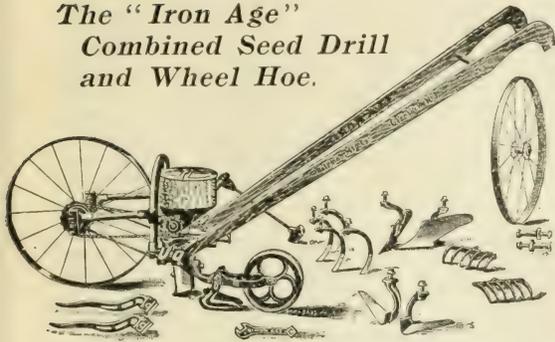
Following out the idea of bicycle construction, as shown in the preceding tools, we offer also a wheel plow constructed in same manner, and we think we cannot be accused of extravagant language in claiming it to be a little “beauty.” Its graceful shape and exceeding lightness accord well with its ease of operation and perfection of work. Adjustable in depth.

Price.....**\$2.25**

"IRON AGE" WHEEL HOES AND DRILLS.

FOR FIELD AND GARDEN WORK.

**The "Iron Age"
Combined Seed Drill
and Wheel Hoe.**



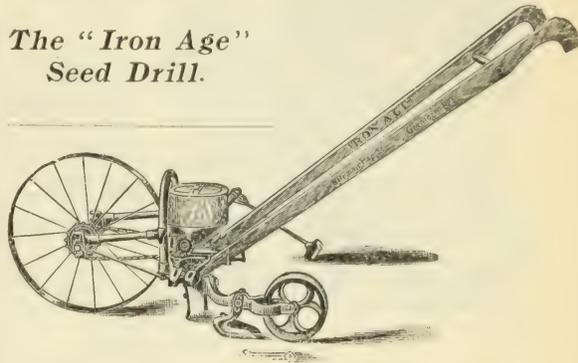
We are glad to be able to offer our friends in this tool what is evidently one of the most complete implements of the kind ever offered. The cut shows it to be a whole tool house of itself. It is a seed drill, a double wheel hoe, a single wheel hoe, a cultivator, plow and rake.

It is converted into a perfect seeder by the drill attachment, which is quickly and easily placed in position, and which is simple in operation, having no gearing, screws or springs to get out of order. The adjustment for various seeds is perfect, the cam index allowing the seed slide to be instantly adjusted to the slightest variation desired.

The labor of operation is reduced to a minimum, owing to the light weight of the tubular frame, high wheel, etc. The following cuts, showing this same tool in its various operations, gives an idea of its great value in the field and garden.

Price.....\$9.00

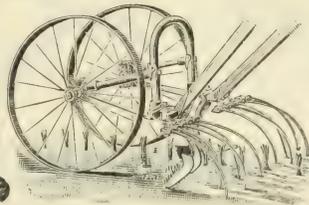
**The "Iron Age"
Seed Drill.**



We offer the "Iron Age" as a seed drill only, as shown in cut. This is the same tool as the combined "Iron Age," with no attachments, and with but one wheel. The same remarks apply concerning its construction and operation.

Price.....\$6.50

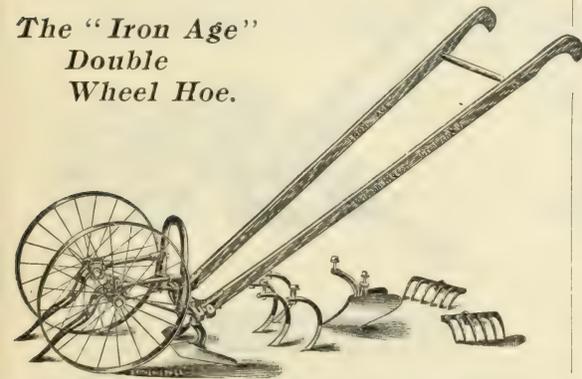
**The
"Iron Age"
Double Wheel
Hoe with
Side Hoes and
Weeder
Attachment.**



For perfect work, every farmer using a wheel hoe should have a pair of our Weeder attachments. They may be used with or without the side hoes. Where used in connection with the side hoes, as shown in cut, they thoroughly pulverize the soil and break up the lumps which follow the side hoes, and at the same time keep the land perfectly level, so the plant is not left to stand on a ridge to be dried out by the sun's rays.

Price of Weeder Attachments, per pair, \$1.00.

**The "Iron Age"
Double
Wheel Hoe.**

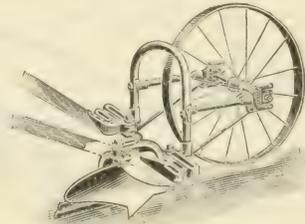


At a glance one can see the great usefulness of this tool. The garden or farm is incomplete without at least one of these tools. In cultivating onions, beets, turnips, radishes, etc., it is invaluable—saves hours of hard labor, and does the work better than several men could do it in the same time. One great advantage which this double wheel hoe possesses is that it can be made into a practical single wheel hoe in a moment's time. An axle is sent with every double wheel hoe for this purpose. The wheels are 16 inches high, enabling the wheel hoe to run easy and without yielding to the depressions of the soil. The frame being made of tubing, coupled to malleable castings, gives great strength, together with lightness. All the tools shown in the cut go with the machine for the price—\$6.00.

**The "Iron Age" Plain Double
Wheel Hoe.**

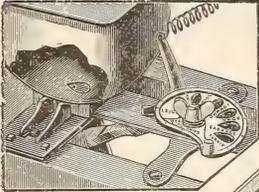
In order to accommodate those who have only use for the Wheel Hoe for hoeing, we offer the machine described above with hoes only at \$3.50.

**The "Iron Age" Double Wheel Hoe
showing Landside Plow attached.**



The Landside Plow may be attached to the machine while it is either a double wheel or single wheel hoe—oftener used with a single wheel for convenience of working. Oftentimes it is convenient to have a Landside Plow in connection with a double wheel, as with this attachment the ground can be broken and the machine used for a greater variety of work. Poultry keepers will find this plow of great value in turning under the droppings in their poultry yard.

Price of Plow Attachment, only 80 cents.



NEW PERFECT INDEX



**NEW
MODEL
SEED
DRILL.**



Price.....\$6.50

This Drill has for years been one of the best known and best liked among the market gardeners. Its record is superb and unchallenged. Drills of similar construction are usually provided with a series of holes of varying sizes, through which the seed is passed, which, of course, does not always give an opening of the exact size required. The operator is usually told in substance that "if one hole don't suit, try another." This adjustment in the New Model is accomplished in a very simple and effective manner 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 hair's breadth variation between, a vital point in a perfect seed drill. This index or indicator is plain, convenient and reliable. It is placed in open sight, immediately under the eye of the operator, and can be quickly adjusted to the slightest variation desired. As the names of the principal seeds are plainly shown on the index itself, it is not necessary to refer to any table of reference. The flow of seed can be instantly stopped by a swinging cut-off, conveniently operated by a cord and ring on handle. This cut-off prevents all loss of seed at end of rows, and its swinging or gravity form will be found far preferable to one that slides under, as it cannot be jammed by the falling seed. Each drill is crated and carefully packed for shipment. Packed weight, about 40 pounds.

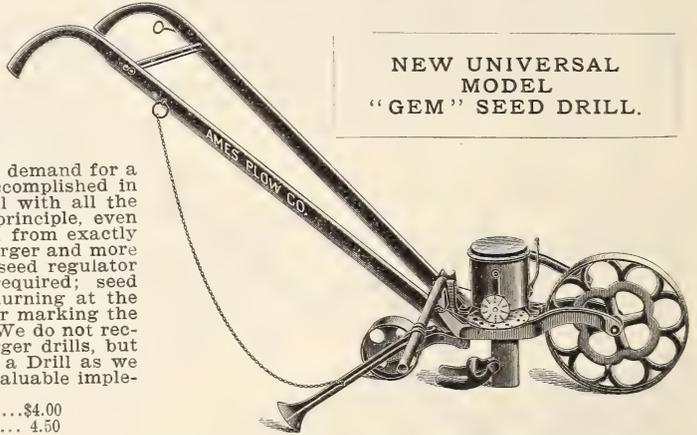
THE GEM WHEEL HOE. — Thousands in use giving perfect satisfaction. Price, \$4.00.

JEWEL DOUBLE WHEEL HOE, CULTIVATOR AND PLOW COMBINED. — So well known so thoroughly introduced and so entirely satisfactory that further description is useless. Price, \$4.50.

New Universal
MODEL
"GEM" SEED DRILL.

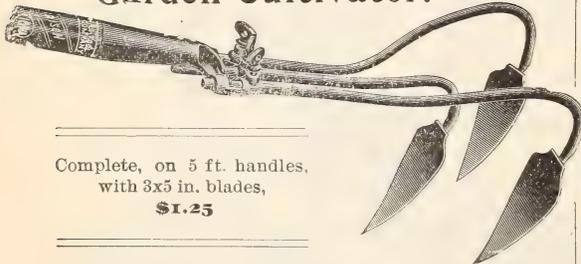
This has been perfected to meet the demand for a low-priced Drill. This is not only accomplished in this design, but we here offer a Drill with all the essential qualities of the Matthews principle, even to embodying seed dial and indicator, from exactly same patterns as those used on the larger and more expensive drills. It also 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.....\$4.00
List.....4.50



**NEW UNIVERSAL
MODEL
"GEM" SEED DRILL.**

THE "VICTOR"
Garden Cultivator.

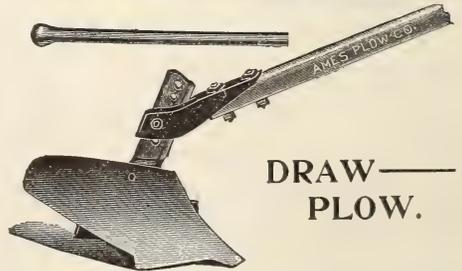


Complete, on 5 ft. handles,
with 3x5 in. blades,
\$1.25

The socket head is of an extra grade of malleable iron, the shanks and blades are steel, and by means of the thumb screw can be adjusted to suit the operator.

Special prices in lots of six or more.

New Universal



**DRAW
PLOW.**

This is the same Plow, and is standard, as used in the NEW UNIVERSAL HAND WHEEL PLOW, fitted with a long handle, to be drawn instead of being pushed.

Price.....\$1.25

Cahoon Patent Broad-cast Seed Sower.

For sowing Clover, Timothy, Millet, Oats, Wheat, Hemp, Barley, Rye, Rice, Buckwheat, etc. A model for accuracy and durability.

Price, \$3.50.

Sows from 4 to 8 acres per hour at an ordinary walking gait, throwing wheat about 40 feet wide. A saving of four-fifths of the labor and one-third of the seed is effected by the use of this machine, and a person entirely unused to sowing by hand can use it with perfect success.

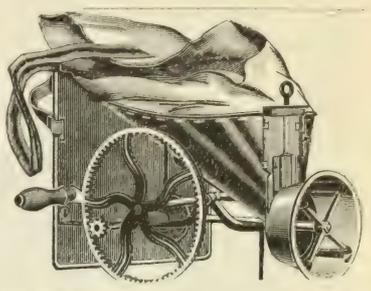
To sow thicker or thinner without changing the slide.—Having set the index to the desired quantity per acre—taking the average of the field—the operator can easily sow a little thicker upon those places where the soil is richer, by taking shorter steps, and thus not going so fast, and upon the poorer spots of ground it can be sown thinner by taking longer steps, and consequently passing more rapidly forward.

About sowing in the wind.—Any one familiar with the use of the machine can sow satisfactorily in a much stronger wind than will admit of sowing well by hand; but as the ordinary work of a day can easily be done with the Sower in two or three hours, that time may be chosen early in the morning or late in the evening, when it is usually calm, or nearly so.

For sowing in Standing Corn the machine will be found of the greatest utility—nothing can ever equal it for this purpose—but will not sow as wide as on fallow ground, in consequence of the obstruction which the corn offers to the seed. A broader lap is therefore required, by making the passages near together. (See directions.)

The breadth of the cast will be according to the weight of the seed.

| | | |
|---|-------------------------------|--|
| { | Wheat and Rye, 30 to 36 feet. | Oat, 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. |



DIRECTIONS FOR GAUGING THE MACHINE.

The large gate is to be used when sowing grain, and the small gate in the larger one for grass seed only.

First close the slide or gate tight, then fix the lower edge of the index point against the scale of inches on the slide for the different seeds as follows:

FOR WHEAT AND RYE.—To sow two bushels to the acre, at 1 inch. To sow one and a-half bushels to the acre, at 3-4 of an inch.

FOR BARLEY.—To sow two bushels to the acre, at 1 inch. To sow one and one-eighth bushels to the acre, at 3-4 of an inch.

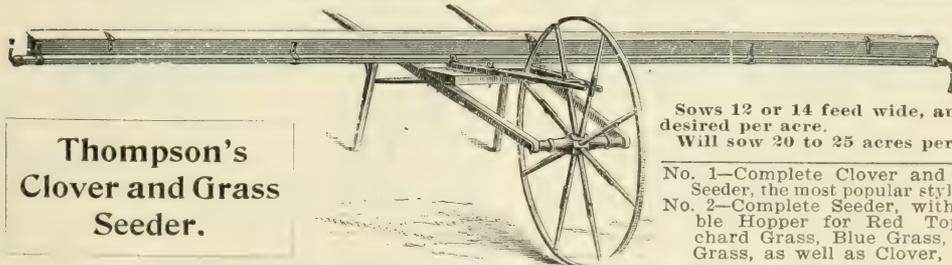
FOR HEMP.—To sow one bushel to the acre, at 1-2 an inch. To sow one and a quarter bushels to the acre, at 5-8 of an inch.

FOR OATS.—To sow two bushels to the acre, at 11-2 inches. To sow one and a-half bushels to the acre, at 11-4 inches.

When ready to sow, first commence turning, and with the left hand raise the slide until the nib on the slide comes against the index point. Be careful to walk and turn, as above directed. To close the slide, do it with a quick pressure of the left hand.

To sow Wheat or Rye in standing corn, two bushels to the acre, set the index at 5-8 of an inch, and sow five or six rows at a time, according as they are wide or narrow.

FOR GRASS SEED.—To sow one peck of grass seed to the acre, raise the small gate 3-8 of an inch; half a bushel, 5-8 of an inch.



**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 forty 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. You place the pin, the machine measures the seed.

Clover, Timothy, Red Top, Hungarian, Millet, Flax, Orchard Grass, Fancy Blue Grass, Alsike and chaffy seeds are alike sown by it.

It cannot clog. The wheel may be covered with mud, yet its working will not be affected.

Working near the ground, even strong winds have no effect upon its accuracy.

A manilla rope passes through a groove in the bottom of the box, fastened at the ends to a rod moved back and forth by a lever. This is operated

Sows 12 or 14 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, **\$6.50**
- No. 2—Complete Seeder, with Double Hopper for Red Top, Orchard Grass, Blue Grass, Lawn Grass, as well as Clover, etc. **\$8.00**

by the revolution of the wheel, upon each of the eight spokes of which is fastened a casting. These castings strike alternately V-shaped irons on the feed levers. The length of stroke governs the quantity of seed sown, and is regulated by the pin which forms a fulcrum at any distance desired from the driving point. The plate for this pin is accurately marked in figures, indicating the quantity of seed sown per acre. By use of a thumb screw the lever can be thrown out of connection, when all sowing stops, the feed-rope covering the holes in the bottom of the hopper, through which, when at work, it forces the seed.

Manilla rope is used because it is better than wire or any substitute. It does not wear the groove, bruise the seed, or fall in its work—wire rope will. Being scorched and chemically treated, our rope is weather proof. It is provided with an iron wedge at one end of the feed rod, so that it may be loosened when not in use.

The Cyclone Hand Broadcast Seed Sower.

This Seeder is accurate, strong, light and durable. The best medium price machine of its kind on the market.

Price..... **\$2.00**

Chicago Seeder.

A good Seeder, at a very low price. This is the most satisfactory Bow Seeder made.

Price..... **\$1.50**



The Evans Steel Frame Intermittent Drop Planter,

with Fertilizer Attachment and Check Rower.

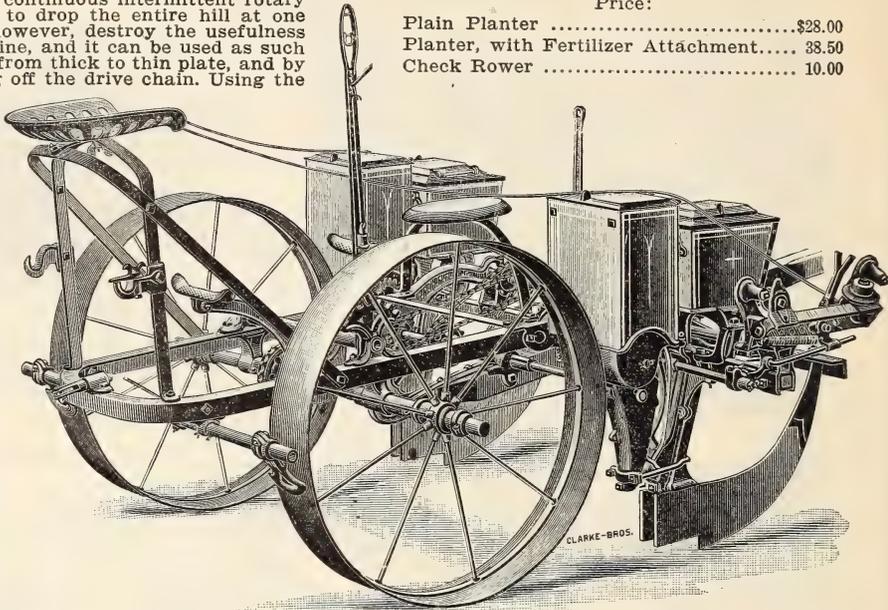
This machine is a continuous intermittent rotary drop Planter, made to drop the entire hill at one time. It does not, however, destroy the usefulness of a combined machine, and it can be used as such by simply changing from thick to thin plate, and by putting on or taking off the drive chain. Using the machine as a drill, it can be changed to drop 10, 12, 14 or 16 ins. apart by changing the chain to a different sprocket wheel on the shaft. It will plant in hills with the drill drop, from two to six grains, by changing the chain to different sprockets, dropping from 2 to 3, 3 to 4, 4 to 5 grains in a hill.

Four sets of thin feed plates for different size corn are used with drill crop, either for drilling or hilling. Each of our thin feed plates has eight sets of holes varying in size from one-half to eleven-sixteenths of an inch. By having four sets of feed plates with different size seed holes, and different cone sprockets, we get 16 changes. This is equal to 32 feed plates, as compared to Planters using thin feed plates, with different number of feed holes in them and without the use of cone sprockets for driving the feed.

THE CHECK ROWER is fastened on the beam of the planter front, and is connected with the valve rod which operates the dropping device. The check-rower head has a long adjustment, so as to bring the corn in check under the knot on the wire. It is made with the fewest number of parts possible, and has an upright fork to catch the wire, which is a great advantage over forks which operate sideways.

POSITIVE WIRE THROW-OFF.—See cut above for same. The check-rower pulleys and forks are so pivoted that, when the machine is at the end of the field, it is only necessary for the driver to pull the small cord, and the lower pulleys and forks tip and release the wire, throwing it from the machine

| | Price: |
|--|---------|
| Plain Planter | \$28.00 |
| Planter, with Fertilizer Attachment..... | 38.50 |
| Check Rower | 10.00 |



automatically without stopping the team; a great improvement over other check-rowers which have only part of the check-rower to tip.

SIMPLICITY OF ADJUSTMENT.—There is but one place on each head to adjust the check-rower, that being the threaded rod running to the valve crank, which it is only necessary to lengthen or shorten as the check-rower head is moved backward or forward, to bring the corn under the button.

FERTILIZER ATTACHMENT.—We have a perfect fertilizer attachment for this machine, which we guarantee in every particular, to work equally as well with wire check-rower as without. It will drop the fertilizer in a continuous stream when hilling or drilling, or at intervals with the hill of corn, as desired. This is the only successful fertilizer attachment on the market.

Steel Frame Single Row Planter.

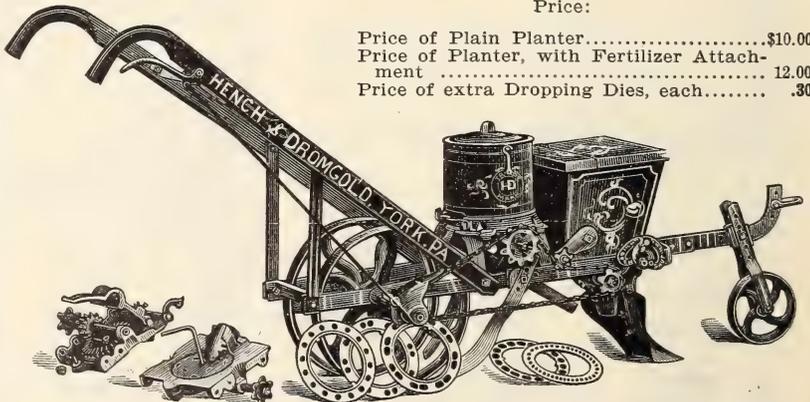
The corn-dropping arrangement is very simple and positive in action.

The fertilizer sower has an agitator which prevents the fertilizer from arching in the box, and it will sow regularly any quantity from 100 to 400 lbs. per acre.

Four rings or dropping dies are furnished with each planter, two with small and two with large holes, dropping one grain at a place an equal distance apart, and two with large and two with small holes for dropping two grains in a hill.

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 31 inches

| | Price: |
|--|---------|
| Price of Plain Planter..... | \$10.00 |
| Price of Planter, with Fertilizer Attachment | 12.00 |
| Price of extra Dropping Dies, each..... | .30 |



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 or any kind of seeds, and by using the different chain wheels can plant any desired amount.

The Gordon Automatic Hand Corn Planter.

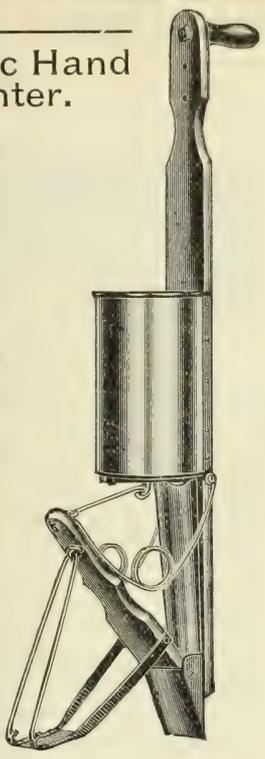
ITS ROTARY SLIDE has a motion TWO ways—back and forth. It prevents skips. No matter how short the stroke, the pocket is pushed into the corn, and back into the conveyor tube. This motion is positive. It breaks up all bridging, and fills the pocket uniformly—it counts the kernels for each drop.

THE IRON STRIPPER will not wear out nor break. It prevents an overdose of corn, and will not crack a kernel.

The entire dropping device is made of iron, held together by three bolts. All parts are easily accessible and readily adjusted.

THE HOPPER IS IN LINE WITH THE CENTRE, there is a double-coil spring on each side, and the planter hangs well in the hand. The material is all the best. The Planter is finished with a selected hardwood frame, finished bright, a brilliantly painted hopper, and all parts varnished.

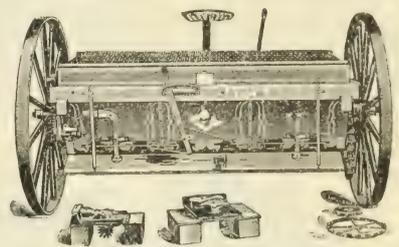
Price.....**\$1 50**



wheel pinion and the agitator. The Agitator is connected on the shaft, standing perpendicular, which prevents the fertilizer from arching. Under the planter is a funnel-shaped iron which scatters the fertilizer as desired.

Three chain wheels are furnished with each machine. It will sow or distribute evenly any kind of commercial fertilizer and in any quantity desired, from the smallest to the largest amount required per acre.

Price, with furrowing out and rear shovels complete **\$13.00**



The Baltimore Lime and Ash Spreader.

This is a strong and substantial machine, with spreading capacity of from 15 to 80 bushels to the acre. The quantity can be regulated at the will of the operator. The wheels are 41-2 feet high. It has six feed, and will spread 71-2 feet wide. The box or hopper is fitted with a powerful agitator, which breaks any arch formed by lime, ash 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 slacked lime.

Price, **\$75.00**

SPECIAL PRICE FOR CASH.



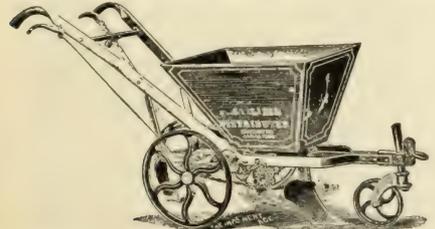
Advance Pea and Fertilizer Drill.

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. We cannot too strongly recommend this Drill to pea growers as being one of the very best tools for sowing peas. The same can be said of it in regard to sowing fodder corn or ensilage.

Price.....**\$5.50**

Single Row Fertilizer Distributor.

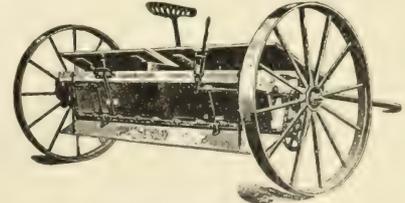
This fertilizer distributor will sow any kind of fertilizer evenly. We use the same feed that we use on the planter with fertilizer (except that it is much larger), which has given entire satisfaction.



The fertilizer bottom and feed is composed of only five pieces, viz., the bottom, the cap, the crown-

The Baltimore Broadcast Fertilizer Distributor.

This machine has more points of real merit than any other Broadcaster on the market. It will sow perfectly all kinds of chemical fertilizer, including kainit and plaster; also hen manure, sheep-pen scrapings, etc., A Patent Positive Force Feed. These machines are made in three sizes, sowing in width 7 feet 9 inches, 6 feet 3 inches, and 4 feet 10 inches. The large size is for two horses, the others for one horse, and furnished with shafts. It will sow from 1500 to 3000 pounds per acre, and from these quantities down to as light a drawing as may be desired.



Two-horse Broadcaster, sowing 7 feet 9 inches wide\$62.00
 No. 1, One-horse Broadcaster, sowing 6 feet 3 inches wide..... 52.00
 No. 2, One-horse Broadcaster, sowing 4 feet 10 inches wide..... 48.00

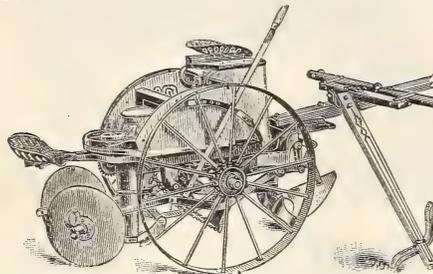
SPECIAL PRICE FOR CASH.

The "Improved=Robbins" Potato Planter.

Price of Planter with Fertilizer Attachment.....\$55.00

SPECIAL DISCOUNT FOR CASH.

The opening plow is a small double mould-board plow, preceded by a thin steel runner to prevent clogging with trash, and which divides the soil for the plow. This runner or shield also prevents injury to the machine. In striking a "fast" rock, the blow is gradual, thereby warning the driver to release the lever and enable him to pass over the rock. The plow throws out on each side a free furrow of loose soil, with no packing or wedging to crowd the future growth of the crop. It now has an independent adjustment by which its position can be changed so as to suit different depths of furrowing in different soils. Immediately following the plow comes the deposit of fertilizer (if used) in a broad stream across the bottom of the furrow.



Will Plant from Four to Seven Acres per day.

DROPPING SEED.—Then follows the drill tube through which the seed is dropped, this tube being provided with a small shoe which opens a narrow groove in the bottom of the furrow, and into which falls the seed.

The small shoe also divides the fertilizer, preventing it from coming in direct contact with the seed,

and mixes it with the soil in passing. Then immediately following come a pair of large steel discs which cover the seed with light, loose soil, all in a nice, moist state, just the right condition for starting a vigorous growth of the potato sprout.

DISTANCE APART.—The speed of the wheel which drops the potatoes is regulated by a simple change of sprocket wheels, those sent out with planter dropping at distances of about 12, 14, 15 1-2, 17, 18 1-2 or 20 inches.

SIMPLE AND EASY.—The handling of the Planter is exceedingly simple and easy, the movement of one lever stopping both potato and fertilizer feed, and at same time raising the entire gang of opening plow, potato tube and covering discs entirely free from the ground.

A PERFECT FERTILIZER DISTRIBUTOR.—We wish to speak particularly of the Fertilizer Distributor of the Improved Robbins, as we believe it to be, beyond any doubt, one of the best methods of distributing fertilizer yet adopted. The fertilizer is placed in a round hopper of galvanized iron, holding about one hundred pounds; and is fed downward through a central opening formed by a straight agitator shaft; the capacity of the distributor is up to a ton per acre, depending largely upon the condition of the fertilizer. The amount sown is quickly and easily regulated by the adjustment of gate or change of sprocket wheels.

Prices of Attachments for Planter:

Pea, Bean and Corn Sower Attachment...\$5.00
Leveler Attachment 1.25

Particular attention is called to the Planter as being adapted to the planting of Peas, a large acreage having been sown with the most satisfactory results, and with a very decided advantage over all other methods. The Planter has been sold for this purpose exclusively.

Also, as another attachment, we have the Leveler, for leveling and smoothing the row.

The L. C. Evans Potato Planter. No. 55

This machine will plant from seven to ten acres per day.

THE FEED.—This being the most important part in seeding machines, and especially so in potato planters, we have constructed the feed so there is no adjustment for large or small pieces of potato. It is a force-feed, and is positive in its action, and its operation is controlled by the machine, instead of by the size of the seed potatoes.

TO CHANGE THE DISTANCES APART IN DROPPING.—The machine will drop the potatoes in drills 10, 12, 14, 16, 18, 20, 28 or 36, inches apart. The change for the different distances apart is accomplished by putting on more or fewer picker arms. The number of arms to be used is shown in plain figures on the disc to which the picker arms are attached, so there can be no mistake made in changing the machine to plant the proper distance.

THE DRIVER CAN SEE THE POTATOES DROPPING.

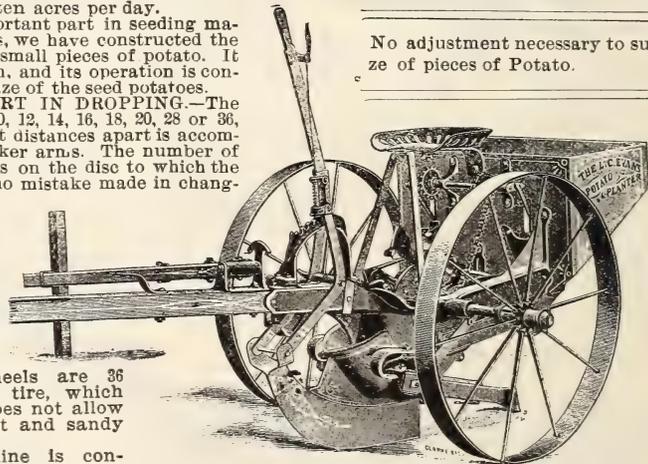
VIBRATING FEED HOPPER BOTTOM.—The bottom of the hopper is constructed with two feeding channels, which vibrate from the top of the hopper down to the bottom of the concaves, thus insuring an even and steady flow of potatoes.

THE DRIVE WHEELS.—The wheels are 36 inches in diameter, with 3 1-2 inch tire, which makes the machine run easily, and does not allow the wheels to bury themselves in soft and sandy soil.

THE HAND LEVER.—This machine is controlled by a simple and effective hand lever, which governs the depth of planting and covering, and is readily changed by the operator, without leaving his seat. The covering shovels are supported on a flat U-shaped spring, which is connected to the furrow runner, and the shovels are raised or lowered by the hand lever. The U-shaped springs make the covering shovels flexible, allowing them to yield to the unequal surface of the ground, causing them to cover much better than shovels attached without springs. The hand lever is also used for raising the furrow runner when turning round, which is a great advantage over machines having no hand lever.

A NOVEL MARKER.—It is positive in operation, is constructed on the principles of the hand lever, has a spring catch on it, which holds it in an upright position when turning round, is readily operated by the hand catch, and cannot fall when

No adjustment necessary to suit size of pieces of Potato.



turning on hilly ground. The marker is arranged with a sliding marker-head, so that the machine will plant the rows any distance apart desired.

WIDTH OF THE MACHINE.—The machine is 36 inches wide, from the center of one drive wheel to the center of the other, which is quite an advantage over narrow-tread machines, which easily upset on hilly ground.

Disc Covers furnished when desired.

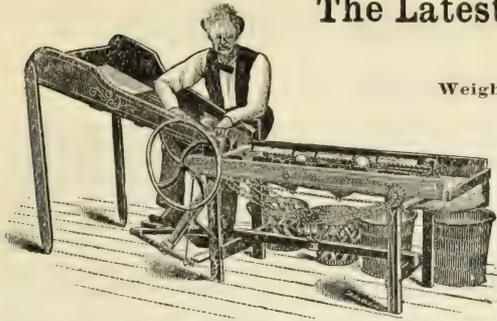
FERTILIZER ATTACHMENT.

This machine can be furnished with a Fertilizer Attachment when desired. It is made on the same principle as those on the Evans Corn Planters.

With Fertilizer Attachment.....\$50.00
SPECIAL DISCOUNT FOR CASH.

The Latest Improved Peach and Potato Sorter.

Weight, 200 Pounds. Shireman's Patent.



The most delicate, ripe and softest peaches, apricots, plums, etc., can be graded in the machine without the least injury; it can be adjusted to change the size of the grades required. Fruit sells better by being properly sorted. It is the only machine that will sort both peaches and potatoes; it runs as light as a sewing machine with foot treadle; it is easily operated, and fruit growers cannot afford to be without it. All machines fully warranted.

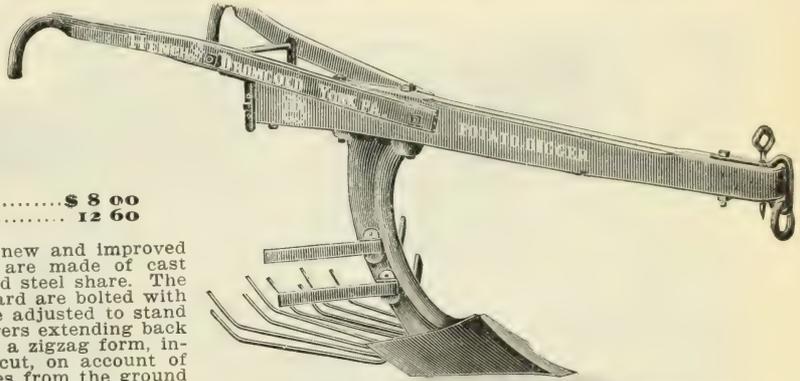
Retail Price:

No. 1.—Capacity 2000 bushels per day.... **\$25 00**

Hench & Dromgold's Potato Digger.

Our retail price..... **\$ 8 00**
List price..... **12 60**

The above cut illustrates our new and improved Potato Digger. The standards are made of cast iron, having on a highly polished steel share. The 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. The fingers extending back from the standard are made in a zigzag form, instead of straight as shown in cut, on account of which they separate the potatoes from the ground better than straight ones. They are made of spring steel, and are very elastic and durable.



Prairie City Potato Cutter.



The Prairie City Potato Cutter will cut potatoes for seed faster than seven or eight men can by hand.

| Price..... \$2 50 | | | |
|-------------------------------------|--------|----------------|---------|
| POTATOES—NUMBER OF PIECES PER ACRE. | | | |
| APART. PLANTS. | | APART. PLANTS. | |
| In. Ft. | In Ft. | In. Ft. | In. Ft. |
| 12 x 2½..... | 18 640 | 14 x 2½..... | 16,000 |
| 12 x 3..... | 15,532 | 14 x 3..... | 13,314 |
| 12 x 3½..... | 13,289 | 14 x 3½..... | 11,405 |
| 18 x 2½..... | 12,434 | 18 x 3..... | 10,355 |
| 18 x 3½..... | 8,874 | | |

Directions for Using the Prairie City Potato Cutter.
Fasten the cutter by rear bolt to a barrel or box, with a space sufficiently large to let the pieces of potatoes fall through. Place a potato on knives with one hand, and with the other press it through, while reaching for another potato with the first hand. Cut one potato at a time. The more careful you are to place the potatoes the better the eyes will be distributed. You can, by changing knives, cut the pieces any desired size, and if desired you can place a division beneath so as to collect all the seed ends in one pile separate from the rest. If the lever suggests some other way, you can, by two screws, take it off and change it by making it longer, or by making the paddle smaller or larger, if desired, or you can leave it off and use a wooden mallet. Be careful not to press or strike harder than sufficient to drive the potato down—a little experience will determine the force required. To enable rapid work, a small feed table placed close to the operator will be found very convenient.



Hitchcock Potato Digger.



By changing one bolt this implement may be converted into a Shovel Plow or a Potato Digger. The fingers are adjustable, being held in position by the plow point. Thus, in case of breakage, a new part may be inserted without the expense of whole new head. The fingers, points and wings are made of steel, rendering it light, strong and durable.

To Operate the Potato Digger Successfully.

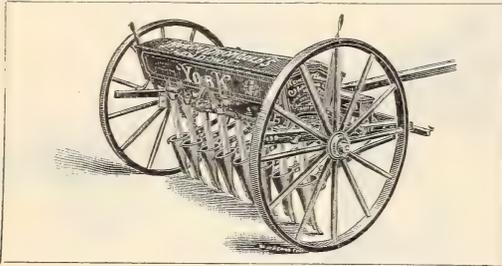
- 1st.—See that the field is comparatively free from vines and weeds, which may be done by mowing and raking with a wheel-horse rake.
 - 2d.—Adjust the wheel to run the plow under the potatoes; do not let it run too deep.
 - 3d.—Adjust the handles according to height of operator.
 - 4th.—Dig every alternate row, and after picking up the potatoes, take the remaining rows.
- Can be successfully used with one horse.

Price..... **\$8 00**

Extra Beam, \$2.00. Extra Steel Point, 60 cents.
Cast Head, \$1.00.

The York Force Feed Grain and Fertilizer Drill.

There are certain points of superiority about these drills that are well worth considering, viz.: **SIMPLICITY OF GEARING, CHANGING the QUANTITY seed or fertilizer per acre and THE FERTILIZER FEED.** Both the grain and fertilizer sowers are **POSITIVELY FORCE FEEDS**, and will sow with absolute regularity any kind of grain or fertilizer in good condition. The grass sower is also a force feed and can be used either in front or rear of the hoes; also the 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.



(CAREFULLY NOTE THESE POINTS.)

A constant source of annoyance found in some other drills, in having dust and dirt accumulating about the gearing is avoided in this drill, in that the gearing is driven by **LINK CHAIN BELTING**.

Gearred from the centre of the drill, thus avoiding the use of cog wheels at the end of the boxes.

Another point gained by the use of this drill is the **MANNER of CHANGING the QUANTITY** per acre. In this, cog wheels are done away with. Another source of annoyance.

There are used instead two levers—one for grain feed and one for fertilizer feed, and by simply moving them either back or forward the indicators, in plain view, guiding the operator, and enabling him to accurately sow the desired quantity per acre; but bear in mind, in using the fertilizer feed the operator must be governed by the condition of the material. The quantity of grain to be sowed can by this means be varied from the smallest to the greatest amount desired, varying as little as a half to a pint at each change. 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.

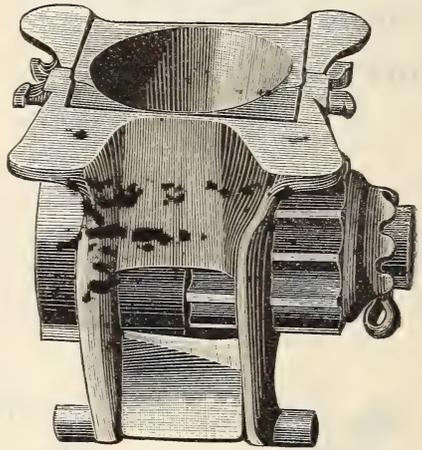
The **HOISTING and HOE SHIFTING LEVER** attachments are the simplest and latest improved on the market. Simply pulling down lever at right hand end of drill, making a quarter circle, forming a dead centre lock, raises the hoes, and simply touching the lever with one finger releases the hoes. The shifting, or zig-zag lever, is on the left-hand end of box and is very easily operated, having three different changes, one-half of the hoes mov-

ing backward and one-half forward. Both wheels are drivers, and have ratchets in hubs. Each having **TWO** pawls in the hub, instead of one, as in other drills; there is no lost motion, so that immediately the drill moves, it begins feeding. When going in a circle the outside wheel does the driving. The land measure has two hands, one making a revolution for each acre and the other for every twelve acres.

We furnish these drills in both spring and pin hoe. Either plain or fertilizer drills furnished as ordered.

| | | | |
|-----------------|---------|--------------------|---------|
| 8-Hoe Pin..... | \$60.00 | 8-Hoe Spring..... | \$65.00 |
| 9-Hoe Pin..... | 63.00 | 9-Hoe Spring..... | 68.00 |
| 10-Hoe Pin..... | 66.00 | 10-Hoe Spring..... | 71.00 |
| 11-Hoe Pin..... | 69.00 | 11-Hoe Spring..... | 74.00 |

SPECIAL INDUCEMENTS FOR CASH.



GRAIN FORCE FEED.

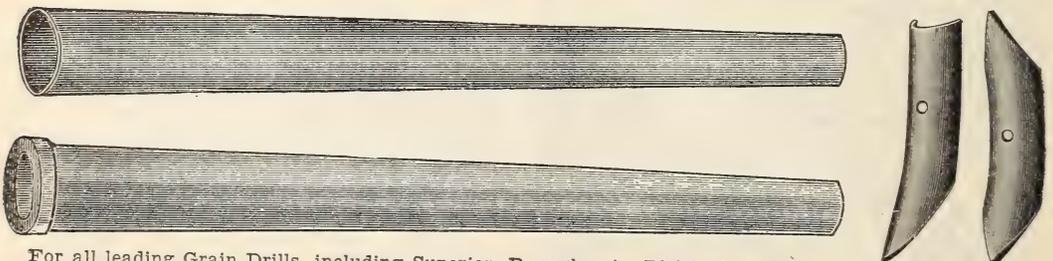
It will sow any kind of grain accurately. The agitator for sowing oats is furnished with every drill and will make it sow oats regularly, which many other makes of drills will not do. It is a positive force feed.



TIMOTHY SEED FEED.

Timothy Seed Force Feed will sow 2, 3, 4, 4½ or 5 quarts or double the amount by changing two wheels as per directions.

Grain Drill Tubes and Points.



For all leading Grain Drills, including Superior, Pennsylvania, Bickford & Hoffman, Buckeye, Hoosier, Indiana, Champion, Empire, McSherry, Hagerstown, Greencastle, etc. Tubes, 25 cents each; points 12 1-2 cents each.

The "Iron Age" Variety Machine.

In this machine there are combined a double mould-board plow, a fertilizer distributor, a coverer, a pea, bean and corn hiller or drill and a two-row furrower.

WHAT IT WILL DO.—It opens furrows, distributes fertilizer, plants corn, peas and beans, and covers in one operation or separately. Marks and opens two furrows.

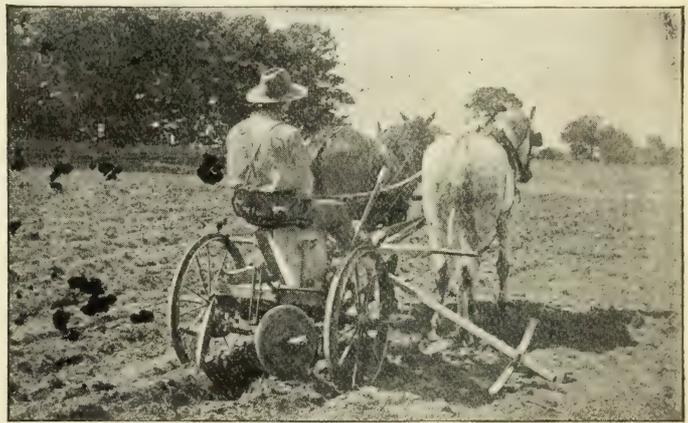
THE OPENING PLOW is a double mouldboard plow which lifts the soil and throws it out loose on both sides. It will run eight inches deep or as shallow as desired.

THE FERTILIZER DISTRIBUTOR.—All who have used or seen the "Improved Robbins" Potato Planters work, will know the excellent qualities of the patented fertilizer distributor used on it. The same principle is applied to the Variety Machine, as we believe it to be beyond doubt one of the best methods of distributing fertilizer yet adopted. The fertilizer is placed in a round hopper of galvanized iron, holding about one hundred pounds, and is fed downward through a central opening formed by a straight agitator shaft.

This feeding is accomplished by a winged scraper, which descends by its own gravity as the material is fed away, while the fertilizer, falling upon a cone in a light, loose condition, is thrown by this cone outward on to a revolving disc, which in turn carries it to the gate opening at its edge. All waste of fertilizer when turning at ends of rows is avoided by a simple arrangement whereby the driver can instantly close the gate. The discs are conveniently adjustable in every way and cover the row with a full, free covering in the most perfect manner possible.

THE WHEELS are made of steel, thirty-two inches high, with T-shaped tires three inches broad, to prevent the machine from slipping on hillsides and to cause it to run steadier on the level. In order to insure correct working of the machine the wheels are adjustable on the axle from thirty-six to fifty inches wide, so they can be set at various distances to accommodate the furrows made.

In the photograph, we show the "Iron Age" Variety machine as a Row Maker at work on a New Jersey farm.



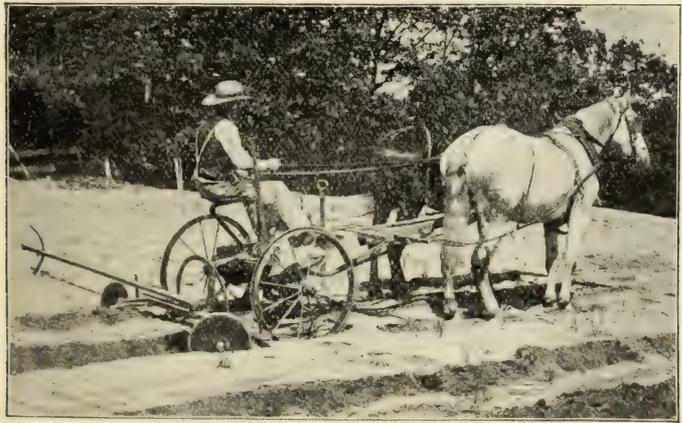
VALUABLE ADJUSTMENTS.—To set the team to walk near or far from the tongue the single trees are adjustable on the double-tree and the rings on the neck yoke. The widest adjustment is always preferable where the team can have room to walk, as the machine will, of course, run steadier. The narrowest adjustment comes in good play when narrow rows are to be made, as the team necessarily must walk close.

THE SEED ATTACHMENT is placed in position at the left of the driver, where he can easily watch his work and adjust the flow of seed. It will plant peas, beans and corn, either in hills or drills.

THE MARKER ATTACHMENT.—The discs and gang which are used on the machine as a row maker are removed by drawing three pins and the gang of the markers attached by making use of the same pins. The same discs and ratchet castings that are used on the gang as a row maker are placed on the arms of the marker attachment. The depth of running of the discs can be finely and instantly adjusted by the lever, and entirely thrown out of the soil at the ends of the rows, preparatory to turning around. After the discs are raised the driver can easily

reach over and raise the marker pole without dismounting. Those who have used the old style marker will appreciate the great advantage of a tool where the operator is not obliged to dismount or lift around the machine.

Then, too, the ability to instantly adjust the depth of the running of discs is an important feature. Farmers having rolling or hilly land will find this tool to operate much better on same than any similar tool, as the T tire prevents slipping.



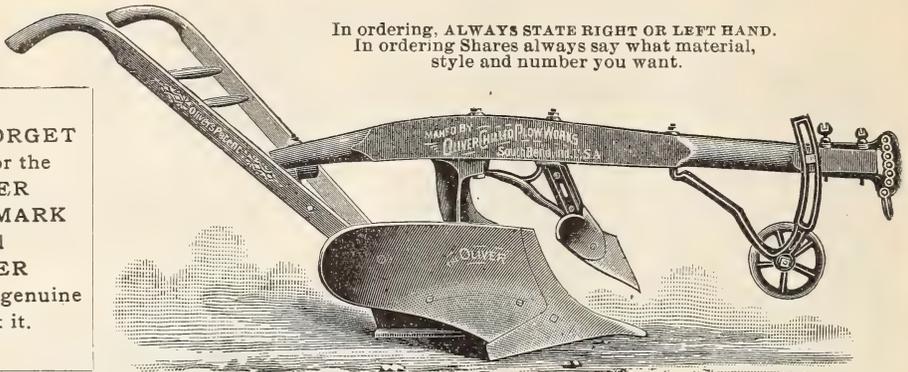
PRICES:

| | |
|---|---------|
| The "Iron Age" Variety Machine as a Row Maker | \$35.00 |
| Seed Attachment | 5.00 |
| Marker Attachment | 6.00 |
| Weight, complete, 500 lbs. | |



SEND FOR CATALOGUE GIVING FULL DESCRIPTION OF "IRON AGE" GOODS.

Genuine Oliver Chilled Plows and Repairs.



In ordering, ALWAYS STATE RIGHT OR LEFT HAND.
In ordering Shares always say what material,
style and number you want.

DON'T FORGET
to look for the
OLIVER
TRADE MARK
on all
OLIVER
goods none genuine
without it.

Plows--Prices.

| | |
|---|---------|
| No. A-1 and A-2..... | \$ 4.00 |
| “ B..... | 5.50 |
| “ B Vineyard, right hand only..... | 7.50 |
| “ 10-0..... | 6.50 |
| “ 13..... | 7.00 |
| “ 19..... | 7.50 |
| “ 20..... | 8.00 |
| “ 22, Iron Beam..... | 11.00 |
| “ 40..... | 8.50 |
| “ E-1..... | 8.50 |
| “ 14-A Steel Mouldboard and Landside, Cast Share and Shoe, right hand only..... | 11.00 |

Oliver Combination Plows.

WOOD BEAM RIGHT AND LEFT HAND.

| | |
|--------------------------------|---------|
| No. 120—All Chilled, only..... | \$ 9.50 |
| No. 140—All Chilled, only..... | 10.00 |

Oliver Special Plows.

| | |
|--|---------|
| No. 1—Road and Grading Plow, all Steel, with Standing Coulter and Gauge Iron or Wheel..... | \$36.00 |
| The Oliver Sub-Soller, best of its kind, with Wheel..... | 14.00 |

Oliver Hillside Plows.

They are made in two sizes—the smallest, No. 52, for one horse, and the largest, No. 53, for two horses. It is made with steel 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..... **\$10.00** | No. 53, Steel Mouldboard, Cast Share....**\$11.00**

NOTE—A Clevis, Wrench, and an extra Share are included in above prices for plows fitted with cast shares, but wheels and jointers are not.

OLIVER REPAIRS.

Mouldboards.

| | | | |
|---------------------------|--------|--------------------|--------|
| No. A-1 and A-2..... | \$1 25 | No. E..... | \$3 00 |
| “ B and B. Vineyard..... | 1 75 | “ 14 A, Steel..... | 4 00 |
| “ 10-0..... | 2 00 | “ 98..... | 2 75 |
| “ 13 and 13 Vineyard..... | 2 25 | “ 99..... | 3 00 |
| “ 19..... | 2 50 | “ 119..... | 2 50 |
| “ 20..... | 2 75 | “ 120..... | 2 75 |
| “ 22..... | 3 00 | “ 140..... | 3 00 |
| “ 40..... | 3 00 | | |

Standards.

| | | | |
|--------------------|--------|-------------|--------|
| No. A..... | \$1 25 | No. 20..... | \$2 25 |
| “ B..... | 1 50 | “ 40..... | 2 50 |
| “ B. Vineyard..... | 2 00 | “ E..... | 2 50 |
| “ 10-0..... | 2 00 | “ 119..... | 2 50 |
| “ 13..... | 2 25 | “ 120..... | 2 50 |
| “ 19..... | 2 25 | “ 140..... | 2 75 |

Landsides.

| | | | |
|---------------------------|--------|--------------------|--------|
| No. A..... | \$0 40 | No. E..... | \$0 75 |
| “ B and B. Vineyard..... | 60 | “ 14-A, Cast..... | 50 |
| “ 10-0..... | 60 | “ 14-A, Steel..... | 1 00 |
| “ 13 and 13 Vineyard..... | 65 | “ 98..... | 75 |
| “ 19..... | 75 | “ 99..... | 75 |
| “ 20..... | 75 | “ 119..... | 75 |
| “ 22..... | 75 | “ 120..... | 75 |
| “ 30..... | 75 | “ 140..... | 75 |
| “ 40..... | 75 | | |

Handle Braces.

| | |
|-------------------------------------|------|
| No. A..... | 25c. |
| “ B-10-13 Vineyard, B Vineyard..... | 30c. |
| All other Handle Braces..... | 50c. |

Handles.

| COMPLETE. | | PER SET. | |
|------------------------------|--------|------------------------------|--------|
| No. A-B-10-0..... | \$1.25 | No. B. Vineyard..... | \$2.00 |
| “ 22 complete, less Rod..... | 1 25 | “ 98-99-119-120 and 140..... | 1 85 |
| “ 14-A and Rod..... | 1 50 | “ 113..... | 1 60 |
| “ 13..... | 1 50 | “ 19-20-E and 40..... | 1 75 |

Handles.

PER PAIR AND SINGLE.

| | |
|-----------------------------------|--------|
| All numbers, per pair, loose..... | \$1.00 |
| All numbers, single, each..... | 50 |
| Rounds, per pair..... | 10 |
| L. S. Handle Plates, each..... | 10 |

Beams.

| | |
|--------------------------------|--------|
| No. A-B-B Vineyard and 10..... | \$1.00 |
| All other numbers, Wood..... | 1.25 |
| No. 22, Iron..... | 4.25 |

OLIVER REPAIRS—Continued.

Rolling Coulters.

We have Rolling Coulters to fit every kind of Oliver Plows upon which they may be required. See prices below:

- 11-inch, for One-Horse Plows, complete..\$2.50
- 13-inch, for Two or Three-Horse Plows, complete 3.00

Combination Plow Repairs.

| Numbers. | Mouldboard Lugs. | Handle Lugs. | Mouldboard and Landside Braces. | Shins. | Lever. | Springs. | Landside Plates. |
|----------|------------------|--------------|---------------------------------|--------|--------|----------|------------------|
| 98 | 20 | 20 | 40 | ... | 20 | 05 | 05 |
| 99 | 20 | 20 | 40 | ... | 20 | 05 | 05 |
| 119 | 20 | 20 | 40 | ... | 20 | 05 | .. |
| 120 | 20 | 20 | 40 | 20 | 20 | 05 | .. |
| 140 | 20 | 20 | 40 | 20 | 20 | 05 | .. |

Hanging Coulters.

These are made to any of our Jointer Holders, and take the place of the Jointer where their use is desired.

- All other numbers, complete, Two-Horse..\$2.00
- All numbers, complete, One-Horse..... 1.50
- Holders, same as for Jointers..... 1.00

Hill-Side Plow Repairs.

| Plow Nos. | Steel Mouldboard | Standards. | Landsides. | Cast Shares. | Set Handles | Beams. | Clevises. | Wrenches. | Wheels. | Jointers. |
|-----------|------------------|------------|------------|--------------|-------------|--------|-----------|-----------|---------|-----------|
| 52 | \$2 75 | \$2 75 | \$0 65 | 50 | \$1 75 | \$1 00 | 20 | 10 | ... | ..... |
| 53 | 3 00 | 3 00 | 75 | 50 | 1 75 | 1 25 | 35 | 15 | ... | ..... |
| 55 | 4 00 | 3 25 | 75 | 50 | 2 00 | 1 00 | 35 | 15 | \$1 00 | \$2 00 |

NOTE.—Where blank spaces occur, parts are not made, hence prices are not given.

- No. 55, Malleable Beams\$4.00
- " 54, Jointer Standards, Wrought..... 1.00
- " 55, Jointer Standards, Wrought..... 1.00
- " 54, Jointer Mouldboard and Point..... 50
- " 55, Jointer Mouldboard and Point..... 50
- " 54, Wheel Standard 50
- " 54, Wheel Standard Block..... 25

- No. 55, Wheel Standard, Double.....\$0.75
- " 55, Wheel Standard, Yoke..... 50
- " 52-C, Hook Holder 30
- " 52-D-M, B, Foot..... 1.00
- " 52-F-M, B Brace..... 60
- " 52-H, Lever 1.00
- " 52-I, Handle Part 30

Shares.

| Numbers. | Cutter Shares | Plain Shares. | Cutter Slip-Nose Shares | Plain Slip-Nose Shares. | Reversible Shares. | Cast Reversible Slip. |
|----------|---------------|---------------|-------------------------|-------------------------|--------------------|-----------------------|
| A | ..... | 18 | ..... | ..... | ..... | ..... |
| B | ..... | 20 | ..... | 25 | ..... | 10 |
| B. Vin. | ..... | 20 | ..... | ..... | ..... | ..... |
| 10-0 | 25 | ..... | 35 | ..... | ..... | 10 |
| 13 | 25 | ..... | 35 | ..... | ..... | 10 |
| 19 | 30 | ..... | 40 | ..... | ..... | 10 |
| 20 | 30 | ..... | 40 | ..... | ..... | 10 |
| 22 | 40 | 35 | ..... | 45 | ..... | 10 |
| 30 | 35 | 30 | ..... | ..... | ..... | 10 |
| 40 | 30 | ..... | 45 | ..... | ..... | 10 |
| E | 30 | ..... | 45 | ..... | ..... | 10 |
| 14-A | 35 | 30 | ..... | 40 | ..... | 10 |
| 98 | ..... | ..... | ..... | 30 | ..... | 20 |
| 99 | ..... | ..... | ..... | 30 | ..... | 20 |
| 119 | ..... | ..... | ..... | 35 | ..... | 25 |
| 120 | ..... | ..... | ..... | 35 | ..... | 25 |
| 140 | ..... | ..... | ..... | 35 | ..... | 25 |

Clevises.

- Clevises Marked "A" for One-Horse Plows.....\$0.20
- " Marked "B" for Two-Horse Plows..... 35
- " Marked "D" for Three-Horse Plows... 50
- " Shackles 10
- " Wrenches 10
- " Guide Pins 05
- " Shackle 05
- " Links, One-Horse 05
- " Rings, One-Horse 05

Wrenches.

- For One-Horse Plow.....\$0.10
- " Two-Horse Plow 15

Bolts.

- For Shares\$0.03
- " Mouldboards and Landsides..... 03
- " Jointer and Coultter Standards, No. 5..... 03
- " End of Handle Brace..... 03
- " Jointer and Coultter Holder, No. 6..... 10
- " Wheel Standards (Straight or Hook)..... 10
- " End of Beam 15
- " All other Standards and Beams..... 10
- " Spreading Bottom of Handles..... 13

Wheels.

Their use is strongly recommended in wet or mellow ground. Can be furnished for nearly all our patterns. See prices below.

- Straight Standard, One-Horse, complete.....\$0.75
- " Brace, Standard, Two-Horse, complete.. 2.00
- Standards, One-Horse, Straight 40
- Standards, Two-Horse, all kinds..... 50
- Wheels only, One-Horse 40

- Wheels only, Two-Horse.....\$0.50
- Hubs 1.00
- Centre Pins or Hub Bolts..... 10
- Wheel Caps or Sand Bands..... 05

NOTE.—In ordering Wheels, say if for Right Hand or Left Hand, Wood or Steel Beam Plows.

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
- " 140, Chilled, for Nos. 120, 125 and 140 Plows.. 2.00
- " 2, for Two and Three-Horse Plows..... 2.00
- Jointer Points, Chilled, all numbers..... 15
- Jointer Mouldboards, Chilled, all numbers..... 35

- One-Horse Jointer Holders.....\$0.75
- Two-Horse Jointer Holders..... 1.00
- One-Horse Jointer Standards..... 50
- Two-Horse Jointer Standards..... 50

NOTE.—In ordering, say whether for Wood or Steel Beam Plows.

CAST PLOWS

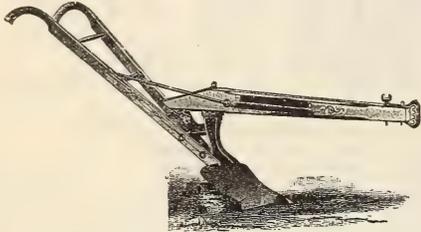
THE HAMPTON PLOWS.

Hampton Boy.

Similar in Size and Shape to Boy Dixie and Boy Clipper.

But has a higher standard, which makes it less liable to choke. Its beam adjustment is simple and complete.

It can be quickly changed from a light truck plow to a medium, and even a large one-horse plow, by using the large moulds. Scraper and Potato Points are also fitted to this plow, thus covering almost every detail of farm work. The wood work is handsomely painted, lettered and varnished.



Price, with truck, mould board, wrench and point.....\$2 50

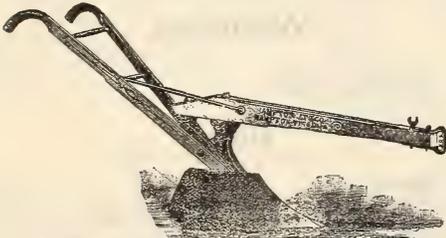
Hampton No. 1 Regular.

This style is similar to the boy, but larger. Attachments are: Truck, mould board, point and wrench.

Price, complete..... \$3 00

Liberal discounts to the trade.

Hampton No. 5.



This is a medium two-horse plow, very light draft, and scours thoroughly. Front wheel and jointers furnished when desired, extra.

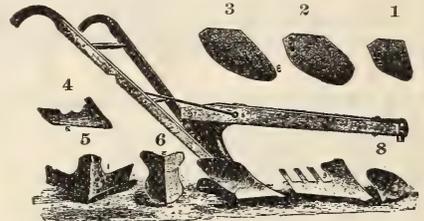
Price, plain plow.....\$5 00

Liberal discount to the trade,

Hampton No. 1, C or Jersey, and Attachments.

Has adjustable handles, beam and brace rod. Extras are ground.

The variety of attachments used in this plow peculiarly adapts it to the cultivation of all crops. First-class work can be done on all kinds of soil. One of the strongest features is its length of landside, causing it to run perfectly level. The beam is provided with both a vertical and lateral adjustment, which is easily effected, as there are no mortices in the beam. All repairs are polished, which prevents sticking and insures easy running.



Find below description of repairs and extra attachments:

No. 1 C mould board (illustrated on plow in cut) is a full size horse plow, and turns a strong furrow.

No. 1 B mould board (Fig. 3 in cut) is a medium one-horse, does similar work to No. 1 C, but is lighter and turns a narrower furrow.

No. 1 A mouldboard (Fig. 2 in cut) is smaller than either the No. 1 C or No. 1 B, and turns the furrow more gently. Excellent in clay or stiff lands; is very light draft, and is useful for making deep narrow furrows for planting seeds, plants, etc.

The truck mould board (Fig. 1 in cut) is adapted to the cultivation of cabbage, berries and other small plants, hilling corn, etc.

The double mould board and point (Fig. 6 in cut) is used for opening furrows and hilling up, and can be attached to the standard by removing the point and mould board.

Fig. 5 in cut is a corn and vegetable scraper or weeder, which can be used alone or with any of the single mould boards on plow. It does excellent work.

Fig. 7 in cut is a potato digging attachment. Very effective for the purpose.

Fig. 8 in cut is a cutter or sod land point. Very popular.

The price includes truck, cabbage and No. 1 B moulds (Figs. 1, 2 and 3 in cut), together with an extra point and wrench, suitable for all bolts in plow.....\$4 00

All other attachments are sold extra.

Liberal discount to the trade.

Minor & Horten High Standard Plows.

| | | |
|------------------|------------------|--------------------------|
| No. 18....\$3 00 | No. 19....\$4 00 | } Plain Castings per lb. |
| No. 18½.. 3 50 | No. 19½.. 5 00 | |

Genuine Farmers' Friend Plow.

| | |
|---------------|---------------------------|
| No. 5..\$2 10 | No. 8 with clevis..\$5 65 |
| 7½. 4 35 | 8 with rod..... 6 35 |

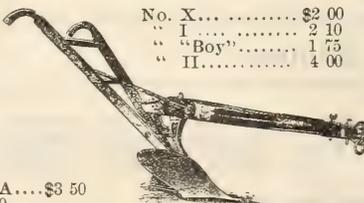
Casting by weight.

Girl Champion.
Casting by weight.



No. "Girl"....\$3 00 No. A....\$3 50
No. AA.....\$4 00

"Boy" Dixie Plow.



| |
|-------------------|
| No. X.....\$2 00 |
| " I..... 2 10 |
| " "Boy"..... 1 75 |
| " II..... 4 00 |

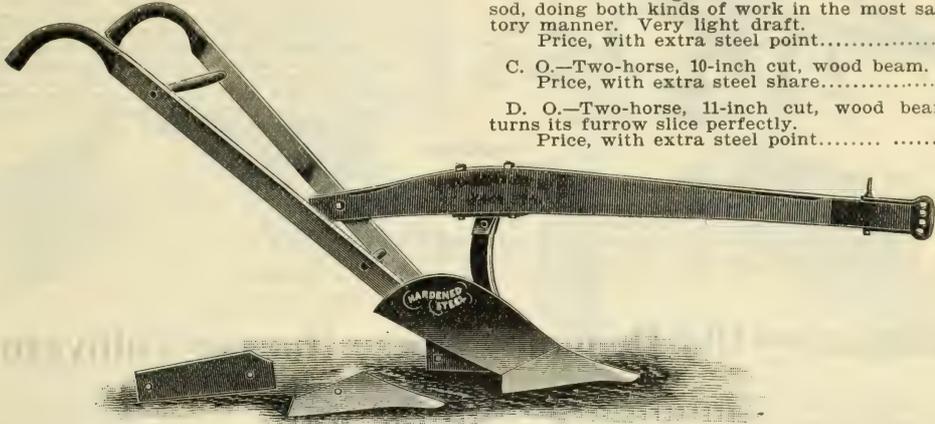
Climax Steel Plows.

Among the best constructed and cheapest general purpose Plows for its size ever designed.

These plows have a wide reputation for superiority in quality and finish and for lightness, because steel being tougher than cast iron, can be made thinner. They take on a much higher degree of earth polish than is ordinarily found in cast plows that are not chilled, and consequently will scour in any ordinary clay soil. They are all made with **STEEL STANDARD AND CAP, SLOPING LANDSIDE AND ADJUSTABLE STEP HEEL**, and will do superior work in all cotton and corn lands.

We furnish them in the following numbers and sizes :

- Pony—Light one-horse, 7-inch, cut, wood beam. Very popular.
Price, with our extra steel point.....**\$2.75**
- A. O.—One-horse, 8-inch cut, wood beam.
Price, with extra steel point.....**\$3.00**
- B. O.—One-horse or light two-horse, 9-inch 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.....**\$3.25**
- C. O.—Two-horse, 10-inch cut, wood beam.
Price, with extra steel share.....**\$4.50**
- D. O.—Two-horse, 11-inch cut, wood beam. It turns its furrow slice perfectly.
Price, with extra steel point.....**\$5.25**



Steel Beam Georgia Stock.

BEAM FORMED IN SHAPE OF A U BAR.

For the purpose of attaching shovel blades or steels of any kind used on shovel plows. These are a new invention and are the best on the market. The beam is made of a plate of steel, formed in the shape of a U bar, the front end being arranged with an adjustable clevis, dispensing with the need of a lap ring. The rear part of the beam forms a **STEEL BOX** for the plow handles, thus making it impossible to split the handles. Regular **GEORGIA STOCK PLOW HANDLES** will fit these plow stocks.

Price.....**\$1.00**

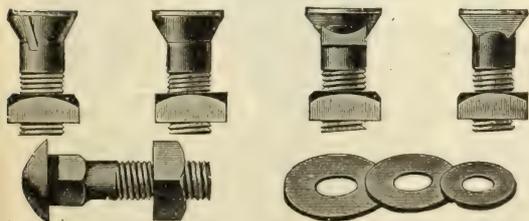


Extra Heavy Steel Beam Georgia Stock

with adjustable landside and rudder. This plow stock has an extra long and very strong beam and heavy foot. The construction of this **STEEL BEAM** makes this the best and strongest plow stock on the market.

Price.....**\$1.50**

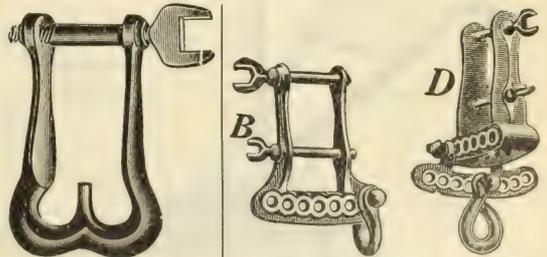
Plow, Machine and Carriage Bolts and Nuts.



Extras furnished for most of the other chilled and cast Plows used throughout this section, including South Bend, Roland, Syracuse, Bissell, Wiard, etc. Also keep on hand full stock of clevises for Minor

& Horton, Farmers' Friend, Girl Champion, Boy Dixie, and other Southern cast plows, and a full supply of plow, cultivator and machine bolts.

Plow Clevises.



A....20c. B....35c. D....50c.

The Iron Age Horse Hoe.

Wheel and Cultivator
Combination,
with and without
Lever
Adjuster.



One of the most satisfactory implements for a reasonable price. Probably no tool has been so widely imitated as the "IRON AGE" Cultivator, the original of this style of implement. All Steel Frames. A grand, good thing. Sold with or without Lever Adjuster.

This Cultivator was first introduced in 1875, and the thousands now in use make a description unnecessary.

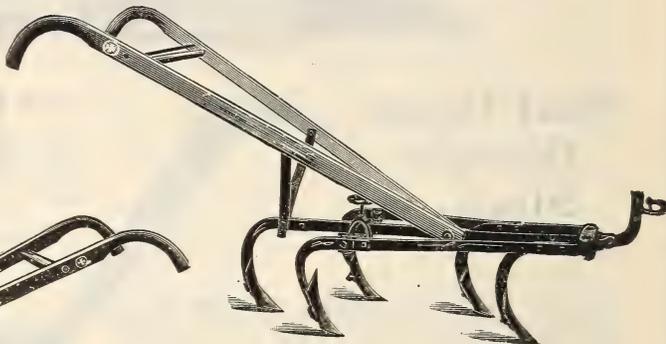
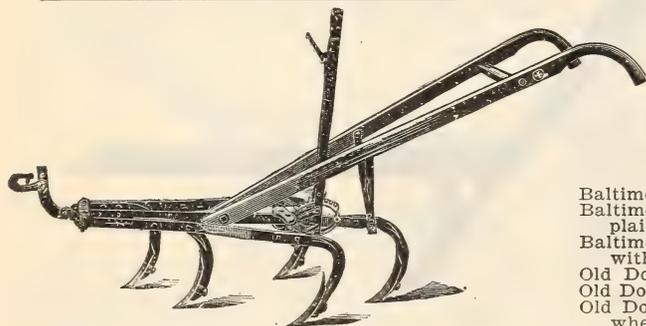
The IRON AGE is celebrated for solidity of construction, adaptation to a great variety of purposes and ease of handling. The reversible hoes or plows of Horse Hoe are bolted to Solid Steel Standards of their own (not attached to light cultivator standards). The value of the IRON AGE as a CORN COVERER is now well known, also for covering Peas, Potatoes, etc., and for making up rows for root crops it is not surpassed by any.

PRICES :

| | |
|---|---------|
| Iron Age Cultivator, plain..... | \$ 3 00 |
| Iron Age Cultivator, with Lever..... | 3 75 |
| Iron Age Horse Hoe and Cultivator, plain..... | 4 00 |
| Iron Age Horse Hoe and Cultivator, with Wheel..... | 4 50 |
| Iron Age Horse Hoe and Cultivator, with Lever and Wheel..... | 5 25 |
| Iron Age Horse Hoe, Cultivator and Corn Coverer combined, plain..... | 5 25 |
| Iron Age Horse Hoe, Cultivator and Corn Coverer combined, with Lever..... | 6 00 |

Baltimore and Old Dominion Horse Hoes and Cultivators.

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. It has No. 68 plates, and the Baltimore No. 82 plates.



Prices:

| | |
|--|--------|
| Baltimore Cultivator | \$2.50 |
| Baltimore Horse Hoe & Cultivator combined, plain | 3.50 |
| Baltimore Horse Hoe & Cultivator, combined, with wheel | 4.00 |
| Old Dominion Cultivator..... | 2.50 |
| Old Dominion Cultivator and Horse Hoe, plain..... | 3.50 |
| Old Dominion Cultivator and Horse Hoe, with wheel | 4.00 |

Baltimore Combined Harrow and Cultivator.



**STEEL TEETH,
DIAMOND
SHAPE.**

A comparatively new implement, but one every way worthy of purchase by all wide-awake farmers. They cannot afford to do without it. Four positions of teeth, doing good work in all crops. This is not to be compared with low-priced Harrows, similar in appearance, but made of common material. The sale in this style tool has been phenomenal. At first we sold quite a number, and the indications were for a big trade, but we had no idea that the sales would reach their present proportions. 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 barrow, 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.

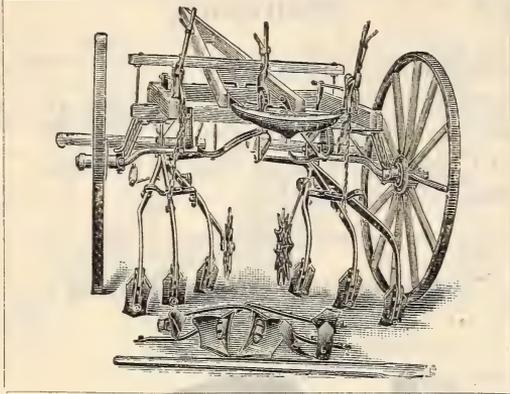
Price, Plain

\$2.50

Price, with Lever.....

\$3.00

Hench Improved Riding and Walking Cultivator.



This Cultivator has many advantages, as follows:

1st.—It has the improved movable spindle by which the operator guides the machine to the right or left at will; can be managed by any boy who can drive a team; has double tongue, giving full view of the corn row.

2d.—Each beam or drag bar has lever by which it can be raised independently, and by changing a bolt, both drag bars can be raised or lowered by one lever, and each has an independent spring pressure.

3d.—It has also a center adjusting lever for setting the shovels closer to or from the corn row.

4th.—The drag bars couple in front with ball and socket bearings, by which all lost motion and wear can be taken up.

5th.—The single-tree rods are connected to the shovel beams and serve as a pressure on the shovels while cultivating, and also assist the operator in raising the shovel beams. They are made with either pin-hoe or spring-hoe attachments.

6th.—Two centre beams and shovels are furnished with each machine, making an eight-shovel cultivator for fallow cultivating. The three shovel beams on either side can be set closer together or wider apart, and either one can be set to run deeper than the other. They can also be spaced six inches farther apart from front shovel or rear shovel.

PRICE.

| | |
|---|---------|
| Pin-Hoe Cultivators | \$25.00 |
| Spring-Hoe Cultivators | 30.00 |
| Extra Beam for Cultivating Orchards | 2.00 |

SPECIAL PRICE FOR CASH.

The "Iron Age" as a Fixed Wheel Riding Cultivator.

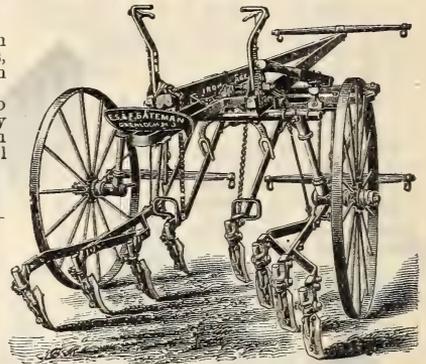
Complete with One Pair of Plows, Shields and Fallow Tooth Attachment.

For a Riding Cultivator needed in very close work we offer the "Iron Age," No. 2, as being particularly adapted to the cultivation of peas, beans, and all close-grown crops. Its wheels close up to 35" and widen to 43".

We take pleasure in recommending this implement to all those who have not used Riding Cultivators, owing to the fact that hitherto they have been made of such width that it has been impossible to work them satisfactorily in close rows, and feel confident the market gardener will now find it well suited to his needs.

Price, \$25.00.

SPECIAL PRICE FOR CASH.



In the annexed 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.

Price:

| | |
|---|---------|
| Six-Shovel Cultivator, Pin-Hoe, with two Bull Tongues and two Hilling Shovels | \$15.00 |
| Seventh or Middle Shovel, extra.. | 1.75 |
| Six-Shovel Cultivator, Spring Hoe | 20.00 |

Champion Steel Walking Cultivator.

SPECIAL PRICE FOR CASH.



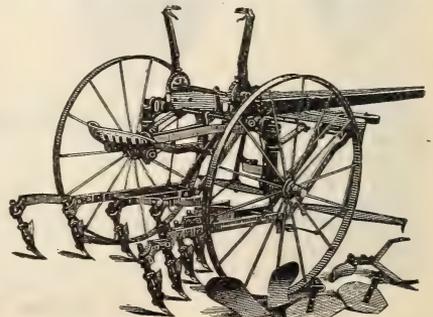
The "Iron Age" as a Pivot Wheel Cultivator.

Price, \$25.00.

SPECIAL PRICE FOR CASH.

For cultivation of crops on hillsides, or for work among very crooked and irregular rows, there probably can be no cultivator so well adapted to the purpose as one making use of what we may call pivoted wheels, the wheels being guided by the feet and thus carrying the entire implement, with its gangs of teeth, to right or left, as desired. It has a wonderful ease of guidance, the pivots being vertical, near the wheels, and the ends resting upon hardened steel balls. The gangs are very rigid in order that they may instantly follow the direction by the wheels. For hilly sections we are prepared to furnish it with wheels having flanged tires to prevent slipping. Seat is arranged to drop below the arch bar, as shown in cut, or can be adjusted above it.

We would call attention to the great adjustability of the tool, to the fact that the gangs can be reduced to three, or even two teeth each, by the removal of the outside and inside teeth; while it will be noticed that the other valuable features of the rigid frame cultivator have been retained.



Complete with one pair of Plows, Shields and Fallow Tooth Attachment.

Genuine "Malta" Single and Double Shovel Plows.

The "Genuine Malta" Double-Shovel Plow, as it is now made, consists of two solid pieces of iron—milled especially—made extra heavy in the shank, and tapered at the point, giving strength where it is most needed. It is provided with Malleable Adjustable Clevis Hook and Handle Braces. Blades are of the best of Open-hearth Steel, full weight and any desired width.

We desire to call particular attention to the "Two

Hole" feature in the shank—the most simple, sensible and substantial method yet devised for giving adjustment and long life to the blades. When the blades are new and long, they should be bolted in the upper hole. But after they become worn off at the point, and do not have the proper pitch or angle, they should be dropped to the lower hole. The point of the blade is thereby thrown forward and given the same pitch or angle as when new.



"Malta" Iron Beam Double Shovel Plow.



"Malta" Iron Beam Single Shovel Plow.

MALTA IRON BEAM SINGLE SHOVEL PLOW.

This plow is extensively used throughout the Middle and Southern States.

The "Malta" Single-Shovel Plow consists of one Solid Iron Bar, rolled in such a manner as to give it great strength, is extra heavy in the curve, and tapered at the point or front end, to which is at-

tached our Adjustable Clevis Hook. Blades are attached to beam with two bolts, and vary in width from six to sixteen inches. In ordering, always specify width of blade. Blades from twelve to sixteen inches wide are special sizes, and will not be furnished on Plows without additional cost.

| | | | |
|----------|---|---------------------------------------|---------------|
| Prices : | } | Malta Double Shovel Plow | \$2.50 |
| | | Malta Single Shovel Plow | \$2.25 |

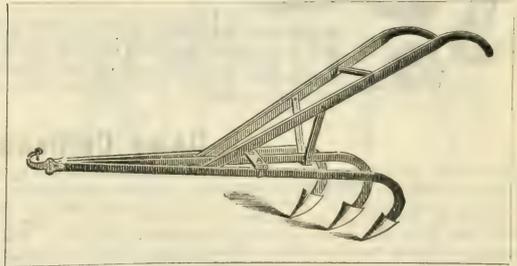
The Farmer's Favorite Single, Double and Triple Shovel Plows.

These Shovel Plows, which were introduced by us some years ago, are rapidly growing into favor. The cost of these goods is not so much in the finish as in the construction and material, that being the principal requisite in an implement.

We wish to call your special attention to the TRIPLE SHOVEL PLOW, OR THREE-SHOVEL DRAG. They are particularly well adapted to hill-side work, at the same time doing excellent work on level land, cover more ground and leave the land level and well plowed.

PRICES:

| | |
|---------------------------------------|----------------|
| Farmers' Favorite, Single Shovel..... | \$ 2.00 |
| Farmers' Favorite, Double Shovel..... | 2.25 |
| Farmers' Favorite, Triple Shovel..... | 2.50 |



Gold Medal Sub-soil Plow

This is a very superior implement, combining lightness of draft, economy and perfection of work. The one-horse plow will reach a depth of 15 inches, and two horses 20 inches.

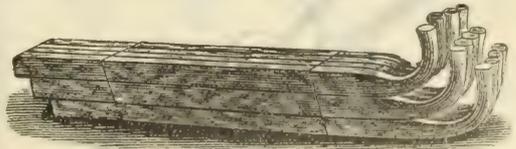


GOLD MEDAL SUB-SOIL PLOW.

| | |
|--------------------------------------|---------------|
| Price, 1-horse cast point, plain.... | \$5 00 |
| With Wheel..... | 6 00 |
| 2-horse cast point, plain... | 7 50 |
| With Wheel..... | 8 50 |

Plow Handles.

| | |
|----------------------------|-----------------------|
| 1½x2 in., 5 ft. long..... | per pair, 35c. |
| 1¼x2¼ in., 5 ft. long..... | 40c. |



Hench & Dromgold Improved Walking or Riding Spring Tooth Lever Harrow, on Wheels.

This Harrow has become so well known, and our an extent that we have found it a hard matter to

sales have increased over those of last year to such keep a supply on hand to meet all wants, and the factory has been taxed to its utmost capacity, running day and night.

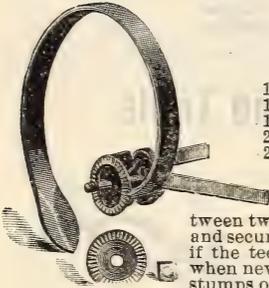


It is an established fact that land prepared by a Spring Tooth Harrow for wheat, is the most acceptable and common-sense method, but the complaint of some has been heavy draft. Now, to meet that objection, a set of wheels has been added; consequently the draft is lessened almost one-half a horse less than on the float spring tooth harrow; fifteen inches can be worn off the teeth by the use of the lever and the ratchets; the slot can be removed in a second; the lever can be attached to the middle rollers, if so desired, when used altogether for riding; and the wheels, when the teeth are set the desired depth, prevent its going deeper than required by the operator, and consequently it cuts the same depth in case soft or hard ground is encountered alternately. The front wheels are pivoted and the evener is attached to the pivoted wheels, so that the harrow will draw at ease after the horses, causing it to draw straight, each tooth cutting its own course or way. It is also admirably adapted to putting corn land in condition for seeding wheat, as the depth is easily and immediately regulated by the lever. It is pivoted in the centre, and can be uncoupled in a moment without the use of bolts or split keys, and can then be used as a one-horse harrow, which makes it quite convenient, either half being adjusted with perfect ease.

- Fifteen Tooth Harrow, without seat.....\$14.50
 - Seventeen Tooth Harrow, without seat.... 15.50
 - Nineteen Tooth Harrow, without seat..... 16.50
 - Twenty-one Tooth Harrow, without seat.. 17.50
- (If seat is wanted, price will be 50 cents extra.)

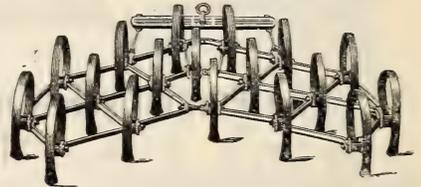
SPECIAL DISCOUNT FOR CASH.

Hench & Dromgold's All Steel Frame Spring Tooth Harrow.



SPECIAL DISCOUNT FOR CASH.

- 14 Tooth Harrow.....\$12.00
- 16 Tooth Harrow..... 12.00
- 18 Tooth Harrow..... 13.00
- 20 Tooth Harrow..... 14.00
- 22 Tooth Harrow..... 15.00

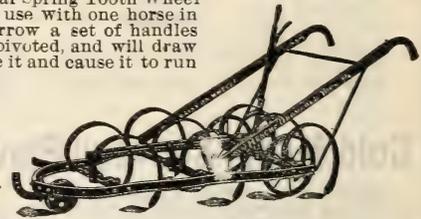


In the Ratchet Tooth Holder, as shown in the cut, the tooth is securely clamped between two malleable ratchet clips, which engage with the ratchet frame clip, and is held firmly and securely by one bolt to each tooth, on which it rotates as on a pivot. By this arrangement, if the teeth are worn off or cut off as much as fifteen inches, they can be set to run as deep as when new. It is so hinged that either side can be raised straight up or at right angles, for passing stumps or trees.

Daisy Cultivator on Wheels.

This Style of Cultivator is precisely the same as either half of the regular Spring Tooth Wheel Harrow, with the addition of handles. It is an admirable implement for use with one horse in working crops in rows. 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, causing it to draw straight. The wheels guide it and cause it to run steady, and each tooth will cut its own way. For turning at the ends the teeth can be raised by the use of the lever, and is very easy to operate.

The frame is made of "I" Beam steel; the rollers or bars are also of steel, the castings being malleable, and the best steel used in our teeth, makes it one of the most durable and complete cultivators or small harrows ever offered to the public. We solicit your patronage.



- Retail Price:
- 7 tooth..... \$7.75
 - 8 tooth..... 8.25
 - 9 tooth..... 8.75
 - 10 tooth..... \$10.25
 - 11 tooth..... 10.75

"Daisy" Cultivator.

- Price of 6-tooth Cultivator, with wheel.....\$5.00
- Price of 8-tooth Cultivator, with wheel..... 6.00
- Price of 10-tooth Cultivator, with wheel..... 7.00



The adjoining cut represents the "Daisy Cultivator," with handles for use similar to the "Daisy on Wheels." This Cultivator has the same ratchet holder as will be found on all of this make of Harrows. It is built with 6 or 8 teeth, but can be used with 5, 6, 7 or 8 teeth, as desired. By simply unbolting the two outside teeth of the 6-tooth Cultivator, it can be used with 4 teeth, and by taking out the middle tooth on the right hand side, and setting the rear tooth in the centre, it makes a 5-tooth Cultivator.

The Reed Spring Tooth Lever Harrow.

THE RIDING ATTACHMENT is practically independent of the Harrow, and the draft is direct from the evener.

THE ONLY Riding or Wheel Attachment in the market whereby the Harrow is practically independent of the wheel attachment, and when the levers are thrown forward and teeth raised, or when teeth have entered the ground, that the frame rests upon the axle and supports attached to it.

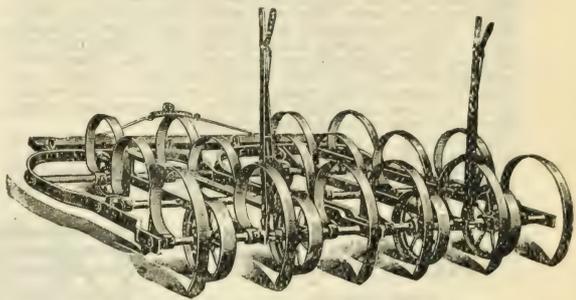
A COMPLETE HARROW with or without the riding or wheel attachment. Each Harrow is furnished with shoes which may be used instead of the wheel or riding attachment, making a complete Lever Harrow with shoes.

OBSERVE that there is a draft rod running from the draft clevis to the small clevis attached to the seat stick iron, which has holes for adjusting, raising or lowering the draft rod, which to a certain extent controls the front end of the Harrow.

It is coupled by adjustable clevises to a long draw bar, and consequently each section can be freely and independently raised when occasion requires. ALL SECTIONS ARE INTERCHANGEABLE, and thus the operator, by having an assortment of draw bars, can transpose a four-section harrow into a three-section harrow, or into two harrows of two sections each.

TO MAKE any Harrow run light, the front end should run a trifle higher than the back end. If the draft is so attached that it pulls the front end down, the back end will bob up and create a heavy friction on the front shoes.

A MODEL OF SIMPLICITY, DURABILITY AND STRENGTH.



IN TURNING AROUND the operator should let his feet rest upon the Harrow Frames. WHEN USING the wheel or riding attachment take off the rear shoes.

Prices, without Seat:

- 16 tooth.....\$15.50
- 18 tooth..... 16.50
- 20 tooth..... 17.50

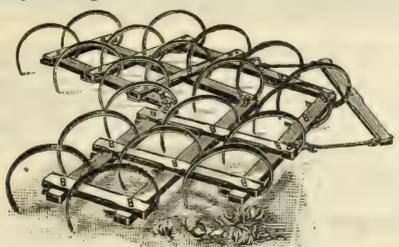
(For Seat Attachment, add \$1.00 to above.)

SPECIAL DISCOUNT FOR CASH.

Genuine Perry Wood Frame Harrow—Iron Clad.

This is, without doubt, one of the best Float Harrows on the market, and our very large sales during the season just passed testify to this fact.

It is particularly desirable in cloddy ground, as it combines a clod crusher and spring-tooth harrow, the frame being iron-plated underneath and in front, so that it crushes the clods at the same time the teeth stir up the ground, and the frame prevents it sinking too deep. Bolt heads fully protected. Teeth cannot get loose. Simplicity itself, and very strong.



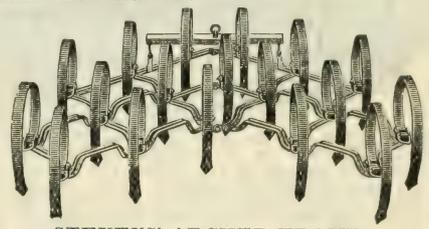
- 14 and 16-Tooth Harrows.....\$ 9.50
- 18-Tooth Harrows 10.50
- 20-Tooth Harrows 11.50

SPECIAL DISCOUNT FOR CASH.

Steven's Spring Tooth Harrows.

Perfect Tooth Clip. Pitch changed by loosening one bolt. Clears itself. Cannot clog. Folds compactly.

We are also furnishing the Stevens' Harrow, with new lever or shoe attachment, making it a perfect lever Harrow. Prices, \$2.00 each higher than Stevens' Plain Harrow.

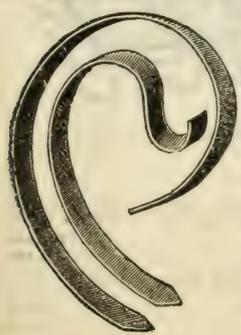


STEVENS' ARCHED FRAME.

Prices:

- 14 and 16-Tooth Harrows.....\$12.00
- 18-Tooth Harrows 13.00
- 20-Tooth Harrows 14.00
- 22-Tooth Harrows 15.00

SPECIAL DISCOUNT FOR CASH.



Spring Harrow Teeth

For leading Harrows, including Hench & Dromgold, Stevens, Blaker, Perry, Child's U. T. K., Tiger, Buffalo Pitts, etc., etc.

Price, 35 cts. each. When taken in full sets a special price.

SPIKE HARROW TEETH AT LOWEST PRICES.



Whipple's Supplementary Adjustable Harrow Tooth Points.

— Old Harrows made as good as new at small expense.

These points are made of a high grade of steel and will outwear the original points. The ears extend back and the point being made of spring metal, allows the ears to be drawn together, clamping the shank firmly, and if the old teeth are out of line, the points, being adjustable, can be lined up so that every tooth will rest on the ground.

These points will fit any of the old Spring Teeth on the market.

Price, Point 15c. each.

U Bar Steel Lever Harrow.

(With 5-8 inch steel teeth.)

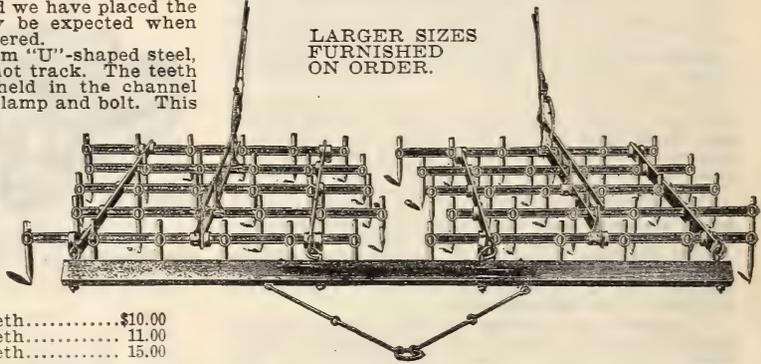
Every ounce of material that goes into the construction of machinery adds to the cost; consequently some of the manufacturers, in order that they may find ready sale for their goods, put in frail and flimsy stuff and advertise low prices. Now this has notably been the case with this style of Harrow. The implement we offer you here is sufficiently strong, being made of the very best material, to meet the requirements of such a tool. The teeth are all of best 5-8 inch steel, and not 1-2 inch, as used by some of the makers, and we have placed the price as low as could possibly be expected when strength and quality are considered.

The beam, or rail, is made from "U"-shaped steel, so arranged that the teeth cannot track. The teeth used are headed, and firmly held in the channel beam by means of a malleable clamp and bolt. This

clamp allows the teeth being raised or lowered, in case of wear and tear, so that they may be worn very short without renewal. It also admits the tooth being reversed, that it may always present a sharp edge to the soil. The levers will set the teeth to any desired angle.

We only carry 5-8 inch tooth, considering that size better adapted for general purposes, and, of course, is stronger, and will wear longer than smaller teeth, which cost less money.

LARGER SIZES FURNISHED ON ORDER.

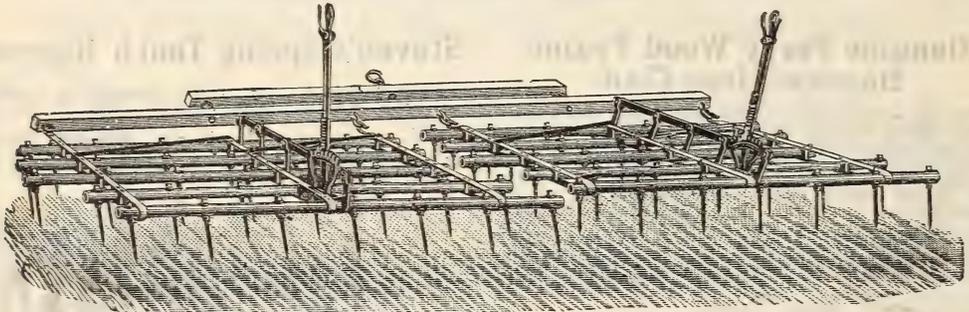


SPECIAL DISCOUNT FOR CASH.

PRICES:

| | |
|--------------------------------------|---------|
| Sizes 2, Sec. 50—5-8 inch teeth..... | \$10.00 |
| Sizes 2, Sec. 60—5-8 inch teeth..... | 11.00 |
| Sizes 3, Sec. 75—5-8 inch teeth..... | 15.00 |

Adjustable Steel Frame Lever Harrow.



This Harrow can be used as a straight-tooth pulverizing Harrow or a straight-tooth smoothing Harrow. By means of the Lever the teeth can be set straight or to any desired slant. The beams are made of iron tubes, and the teeth pass through the same, and are threaded and held firmly in place by a tap. If stalks and trash accumulate on the teeth when used as a straight-tooth Harrow, the

teeth can be changed in a moment, by means of a Lever, to a standing position, for clearing off the same. As a smoothing Harrow it never clogs, all rubbish being cut in two, or passing down and off the ends of the teeth, and completely buried. For cultivating young corn in its early stage it is admirably adapted. Specially adapted to cultivating wheat in the spring.

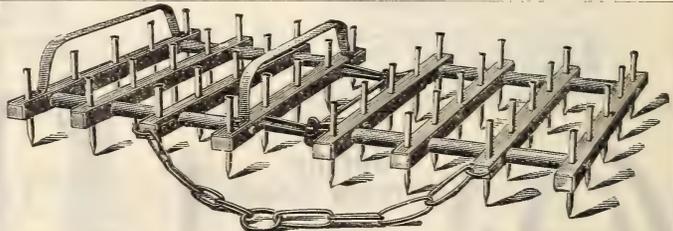
Price, with 50 teeth..... **\$10.50.** SPECIAL DISCOUNT FOR CASH.

Baltimore Double-Hinge Harrow.

This is a two section, wood frame, spike-tooth Harrow. It is so coupled that each section has a vibratory motion, independent of the other. It is simple and durable. The frame is of hard wood, nicely finished and painted. The runners, as seen in the cut, are intended to be used in carrying the Harrow from one field to the other; the value of this feature any good farmer will appreciate.

It cuts 6 feet 6 inches, and contains 40 teeth.

Price..... **\$9.00.**



SPECIAL DISCOUNT FOR CASH.

Gardener's Harrow.

This Harrow is similar to the above, only it is made in one section instead of two. It is just the thing for small, hilly farms, or for market gardeners. It is designed to be used by one horse, and is the essence of convenience in handling and getting around in small garden plats, etc. 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 24 teeth..... | \$5.00 |
| | With 30 teeth..... | 6.00 |

SPECIAL DISCOUNT FOR CASH.

WOOD FRAME SMOOTHING HARROW
(Similar to the old Thomas.)

| | |
|----------------------|--------|
| 2 Sec.—48 teeth..... | \$8.00 |
| 3 Sec.—72 teeth..... | 12.00 |

Bell's Center Cut Disc Harrow.

MADE OF STEEL WITH DOUBLE LEVERS.



**IT LEAVES
NO CENTRE
RIDGE,**

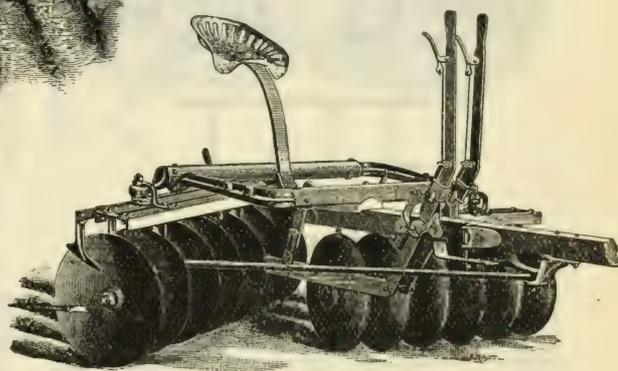
The great trouble heretofore has been to have a disc Harrow that would cut out the centre ridge. How to reach that ridge and cultivate an even surface has been the problem. It is now solved by BELL'S CENTRE-CUT. It reaches the centre ridge, cuts it out, and pulverizes all the ground from outside to outside, leaving a smooth surface behind it. The importance of this sure cultivation to an even depth and leaving no uncultivated ground, cannot be overestimated. There will be no rows of weeds between the grain, as this Harrow cuts all of the roots below the surface. No weight on horse's neck; no side draft. If it cultivates 12 per cent. more, and pulls 30 per cent. lighter draft than any other solid disc Harrow, how much more is it worth?

No. 1. Bell's Centre-cut Harrow, with 13 discs, steel frame neck yoke and 3 horse eveners... **\$26.00**

THE ONLY OVERLAPPING HARROW.

Mark this Statement.

This is positively the **ONLY DISC HARROW** ever made that has no particle of weight on the horses' neck.



This cut shows all the attachments for this Harrow for keeping the gangs in the ground—valuable features which are possessed by no other machine.

“Druid” Disc Harrow.

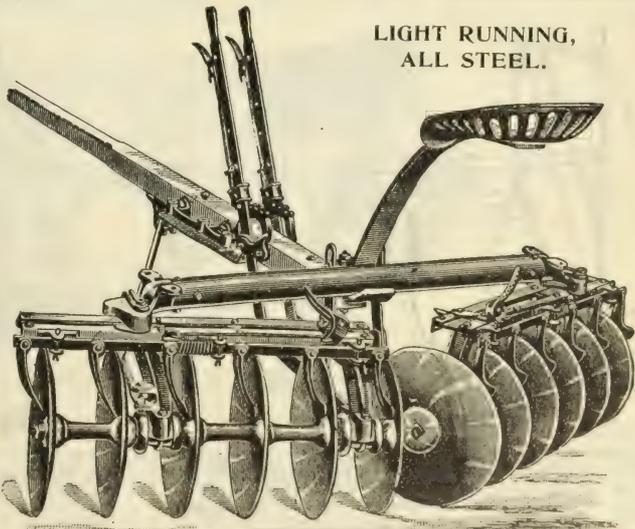
This Harrow is **UNQUESTIONABLY** the **NEATEST**, the **SIMPLEST** in **CONSTRUCTION**, the **LIGHTEST** **RUNNING**, and at the same time the **STRONGEST** and **MOST DURABLE** HARROW made, with the single exception of the **CENTRE-CUT**.

It has many advantages over the wood frame Harrow, and, in addition, will last longer. While almost any disc harrow will do fair work under the most favorable circumstances, only the **BEST** will stand the test at all times and under all the various conditions of soil. The cut shows the Harrow up in excellent shape, giving the construction in detail, including the most perfect set of gang scrapers made. Furnished with neck yoke and whiffletrees.

| No. | Disc. | Inches. | Ft. of Cut. | Price. |
|-----|-------|---------|-------------|---------|
| 00 | 8 | 16 | 4 | \$19 00 |
| 0 | 10 | 16 | 5 | 20 00 |
| 1 | 12 | 16 | 6 | 21 00 |

Can also furnish a cheaper line of Disc Harrows.

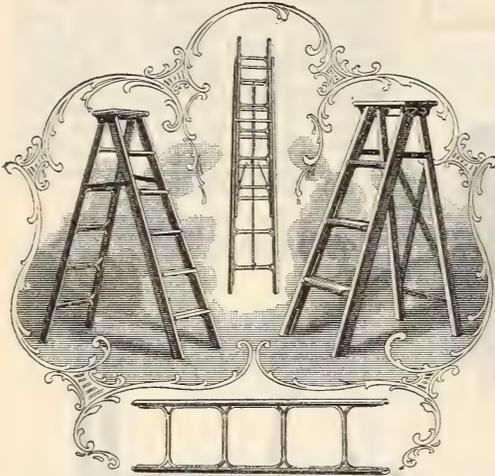
**LIGHT RUNNING,
ALL STEEL.**



LAWN MOWERS REPAIRED.

Bent Rung Step Ladders, Extension and Single Ladders.

A 16-foot Single Ladder only weighs from 21 to 25 lbs. By drawing out a small rod at top of Step Ladder, 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. The rungs are made of toughest hickory.



A slight groove in the side pieces, in which the rungs are set, acts as a brace and aids to stiffen the ladder.

PRICE LIST

Single Ladders.

Less 30 per cent. from the following prices.

| | | |
|------------------|--------------------|-------------------|
| 5 feet....\$1 25 | 12 feet.....\$3 10 | 19 feet....\$5 25 |
| 6 " 1 50 | 13 " 3 40 | 20 " 5 60 |
| 7 " 1 75 | 14 " 3 70 | 21 " 6 00 |
| 8 " 2 00 | 15 " 4 00 | 22 " 6 40 |
| 9 " 2 25 | 16 " 4 30 | 23 " 6 90 |
| 10 " 2 50 | 17 " 4 60 | 24 " 7 50 |
| 11 " 2 80 | 18 " 4 90 | |

Step Ladders.

Less 40 per cent. from following prices.

| | | |
|-------------------|--------------------|--------------------|
| 4 feet.....\$3 00 | 6 feet.....\$4 00 | 8 feet .....\$5 00 |
| 5 " 3 50 | 7 " 4 50 | 9 " 5 50 |
| | 10 feet.....\$6 00 | |

We also carry a first-class step ladder, which we sell at **15c.** per foot, net.

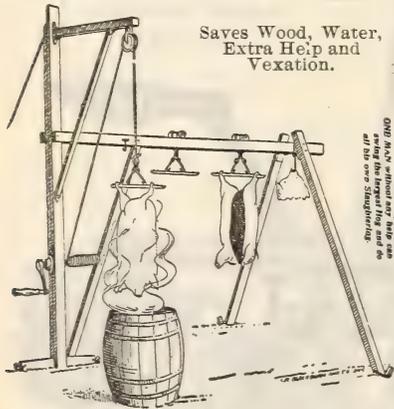
Extension Ladders.

Less 35 per cent. from the following prices.

| Two Ladders. Each. | Length. | Price. | Two Ladders. Each. | Length. | Price. |
|--------------------|-------------|---------|--------------------|-------------|---------|
| 10 feet..... | 17 feet.... | \$ 7 40 | 18 feet..... | 33 feet.... | \$14 40 |
| 11 " | 19 " | 8 15 | 19 " | 35 " | 15 20 |
| 12 " | 21 " | 8 90 | 20 " | 37 " | 16 00 |
| 13 " | 23 " | 9 60 | 21 " | 39 " | 17 20 |
| 14 " | 25 " | 10 40 | 22 " | 41 " | 18 50 |
| 15 " | 27 " | 11 20 | 23 " | 43 " | 19 80 |
| 16 " | 29 " | 12 20 | 24 " | 45 " | 21 20 |
| 17 " | 31 " | 13 60 | | | |

THE Ohio Butchering Derrick. THE GREAT LABOR SAVER.

The Derrick is made of first-class hardwood, finished in oil and varnished. Strong enough to swing up the largest hog, and room enough on it for four or more. It can be taken apart, and put together within a few minutes; can be folded up closely and packed away in the hay loft during the summer. The hot water barrel may be placed within easy distance, and the whole pig ducked at once and as long as may be necessary. Strong, durable, always ready for business.



Saves Wood, Water, Extra Help and Vexation.

Strength and size up to your hog, making up to one day use possible. No. 100

One man without any help can swing the largest hog and do all his own slaughtering.

DESCRIPTION.—From the pulley to the ground, 9 ft.; length of derrick, 9 ft. 6 in.; track, 6 ft. 9 in. from the ground; braces, 6 ft. 6 in. wide at the bottom. Each Derrick furnished with four gammon sticks, four pulleys, four head hooks, twenty feet manilla rope, malleable iron stay rings, a windlass of easy sweep. Thoroughly well braced with proper cast iron supports to the crane. Weight, 150 lbs.

Price.....**\$10.50**

The Keystone Dehorning Clippers.

The practice of dehorning cattle is coming more and more into vogue. It is a mercy to the animals. Prevents going. 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."



Price:
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**

Ox Yokes Complete.

| Sizes. | Description. | List Price. |
|---------------------------------|--|-------------|
| No. 1— | 7 inches on neck, by 19 inches between bows, | \$6.00 |
| No. 2— | 7½ " " " " " " | 6.50 |
| No. 3— | 8 " " " " " " | 7.50 |
| No. 4— | 8½ " " " " " " | 8.00 |
| No. 5— | 9 " " " " " " | 9.00 |
| No. 6— | 9½ " " " " " " | 9.50 |
| No. 7— | 10 " " " " " " | 10.00 |
| Ox Bows, per pair, regular..... | | 1.15 |
| Ox Bows, per pair, heavy..... | | 1.25 |

WHEELBARROW DEPARTMENT.

The fact that this department constitutes such a large part of our business, is owing to the superior quality of the goods which we have to offer. The style, the finish, the general make-up and quality of material cannot be surpassed.

There are so many uses to which Garden Barrows are put, that in order to stand the test they must be strong, and made of good, well seasoned timber. A barrow that will stand the handling to which it is subjected in the city, over the rough stones, dropping down from the curb to the street with heavy

loads, requires stronger wheels and stouter rims than are ordinarily found in this class of goods. These Barrows are made in such a substantial manner that they will withstand this treatment, and, being strong enough for city uses, they will certainly meet all requirements of the farm or garden.

Our trade extends all through the South, a large portion of the West, and the New England States. This fact testifies to the superiority of these goods. The principal style used through this section and the East is the

Baltimore Garden Barrow.

These are the best Garden Barrows that we make, nicely painted and neatly finished in every respect. The wheels are of wood, with wood hub, put together in the strongest possible manner. The tire is set by steam pressure, which shortens the iron in the tire, and reduces the diameter of the wheel, bringing the spokes up tight in every joint.

Iron leg braces are thoroughly bolted, not held by screws. The wheels have iron bands shrunk on end of hub. The spokes, maple or beech, shaped, not turned.

No. 2, SMALL SIZE or BOYS' BARROW.

Inside measurement of box: 21 inches long, 15 1-2 inches wide at wheel end, 18 inches wide at handle end, 9 inches deep. Has 16 inch wheel, 11-4 inch tread, and 1-2 inch gudgeon. Nicely painted and striped. It is designed for boy 8 to 12 years of age. Bottoms matched and glued. Packed for export, one dozen measure 25 cubic feet.

Price.....\$3.25

No. 4, MEDIUM SIZE or MAN'S BARROW.

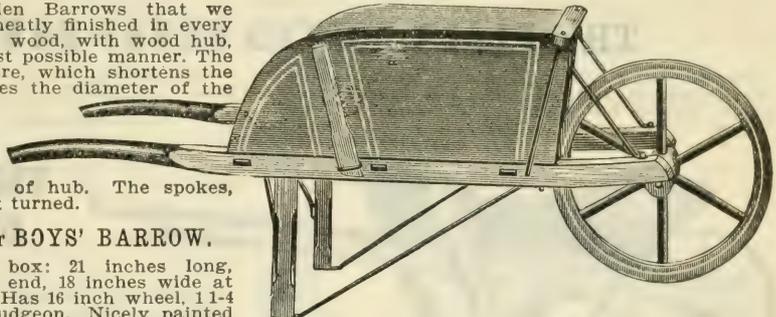
Inside measurement of box: 26 1-2 inches long, 18 1-2 inches at wheel end, 23 inches wide at handle end, 12 inches deep. Has 20 inch wheel, 6 or 8 spokes, 11-2 inch tread, 1-2 inch gudgeon. Painted green or blue. Bottoms matched and glued. Nicely painted and striped. Packed for export, one dozen measure 45 cubic feet.

Price.....\$3.50

No. 5, LARGE SIZE or MAN'S BARROW.

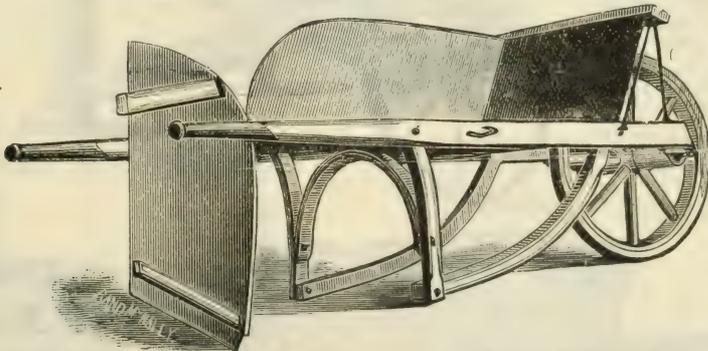
Inside measurement of box: 28 inches long, 20 inches wide at wheel end, 24 inches wide at handle end, 12 inches deep. Has 22 inch wheel, 6 or 8 spokes, 11-2 inch tread, 1-2 inch gudgeon. Finished as above. Packed, measure 50 cubic feet.

Price.....\$4.00



Baltimore Garden Barrow.

Maryland Garden Barrow.



This style, though very popular in this section, is used extensively in the South and West.

The measurements of these Barrows range from 45 to 55 cubic feet per dozen when packed for export. In general construction these Barrows are put together like the Baltimore, with the exception of brace between the handles and the regular handle bars, distinctions that are readily seen in the cuts.

No. 3, MEDIUM SIZE.

Inside measurement: 28 inches long, 17 inches wide at wheel end, 22 inches wide at handle end, 11 inches deep, 18 inch wheel. Bottoms matched and glued. Painted green or red; striped and varnished. Price.....\$3.25

No. 2, MEDIUM LARGE SIZE.

Inside measurement of box: 30 inches long, 19 inches wide at wheel end, 24 inches wide at handle end, 12 inches deep, 20 inch wheel. Bottoms matched and glued. Nicely painted, blue, green or red, or oiled, varnished and striped.

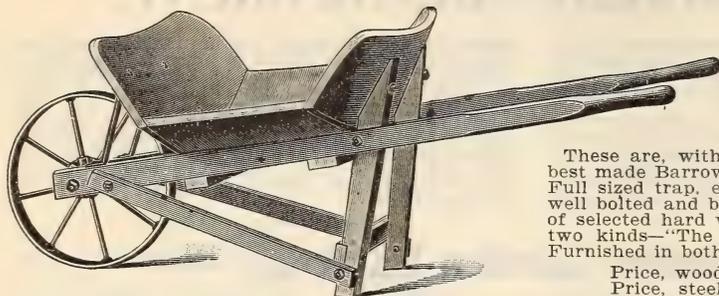
Price.....\$3.50

No. 1, LARGE SIZE.

Inside measurement of box: 32 inches long, 22 inches wide at wheel end, 27 inches wide at handle end, 12 inches deep, 20 inch wheel. Bottoms matched and glued. Nicely painted and striped.

Price.....\$4.00

THE BALTIMORE CANAL BARROWS.



These are, without exception, the strongest and best made Barrows for the purpose on the market. Full sized trap, edges shared; bolted to legs, and well bolted and braced in front. Handles and legs of selected hard wood; wheels painted. We carry two kinds—"The Baltimore" and "Plain Bolted." Furnished in both wood and steel wheel.

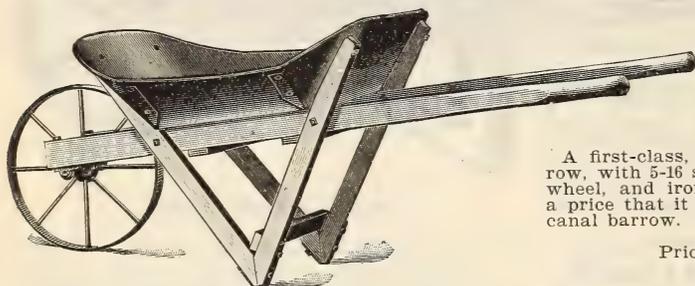
Price, wood wheel.....\$2.00
Price, steel wheel..... 2.25

THE PLAIN BOLTED CANAL BARROWS.

Ordinary size; belt tray; planed on both sides; legs bolted to handles and well braced. Very strong, durable and cheap. Furnished with wood or steel wheel.

When packed for export, these Barrows measure from 28 to 33 cubic feet per dozen.

Price, wood wheel.....\$1.50
Price, steel wheel..... 1.75



THE SOUTHERN STEEL TRAY.

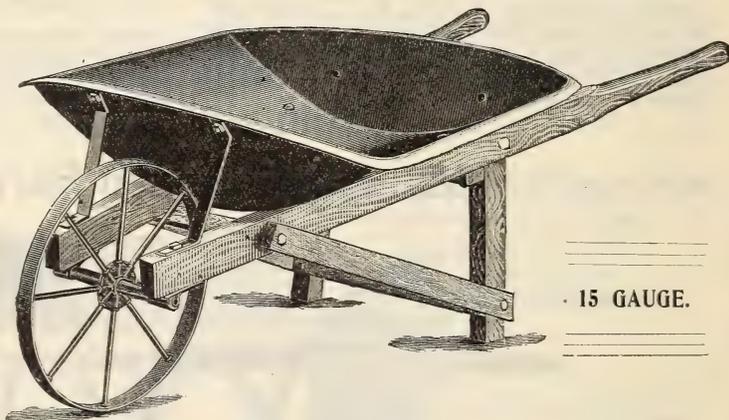
A first-class, strong, well-made steel tray Barrow, with 5-16 steel rod, rolled in edges, with steel wheel, and iron shoes, yet sold at so reasonable a price that it will take the place of the ordinary canal barrow.

Price, \$3.00

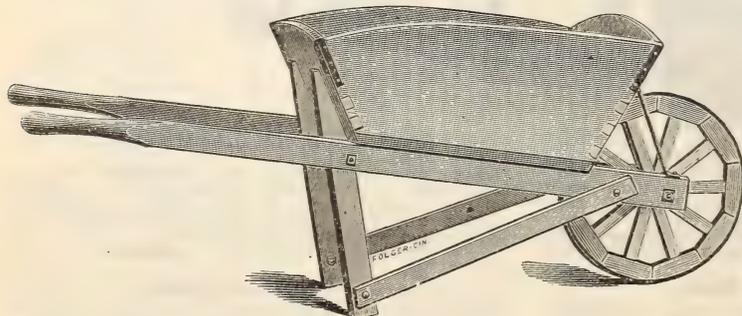
WOOD FRAME, SOLID PRESSED, STEEL TRAY BARROW.

This Barrow, similar to the Tubular Frame except in shape and has a wood frame, very desirable on account of lightness. The frame is planed smooth on all sides of selected lumber, and painted. The wheel is 17 in. diameter; eight 7-16 spokes, shouldered and riveted; tire, 11-2x3-8 in.; axle, 9-16 in., and runs in an iron bearing. It is well braced throughout. The brace on the leg extends around the bottom or base, and prevents splitting. Weight, 50 lbs.

Price.....\$3.75



15 GAUGE.



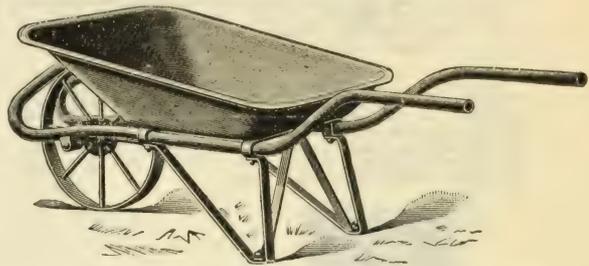
COAL AND MORTAR BARROWS.

Top is iron banded, strongly braced and bolted; has large capacity.

Price.....\$3.50

Tubular Frame, Solid Pressed, Steel Tray Barrow.

Handles are bent so as to form braces on front end of tray, and a fulcrum when dumping barrow over wheel. Prevents tray striking on corner when barrow is dumped sidewise. Will not run back on wheels. Handles are joined under tray by two cross bars with loops on ends, and are securely clamped by bolts that pass through the tray and cross bars. The full strength of the handles is retained, having no holes drilled through. Legs and braces are very strong. The trays are pressed from a single piece of steel; very smooth, free from rivets, seams, crimps and overlaps; have a narrow flange around edges, giving strength and adding to appearance. Trays, wheels and frames pack very conveniently in one-quarter, one-half and one dozen bundles.



A1—Tray, 16 gauge, steel; capacity, 3 cubic feet; weight, 58 lbs.; wheel, 17 in. diameter; tire, 1 1/2 x 3/8 in.; eight 1-2 in. spokes, shouldered and riveted; axle, 5-8 in. For moving earth, ashes and light work.

Price..... **\$4.50**

SPECIAL DISCOUNT FOR CASH.

B2—Tray, 14 gauge, steel; capacity, 5 cubic feet; weight, 75 lbs.; mounted on same frame and wheel as A 1. For general purposes and light running. It will stand hard usage.

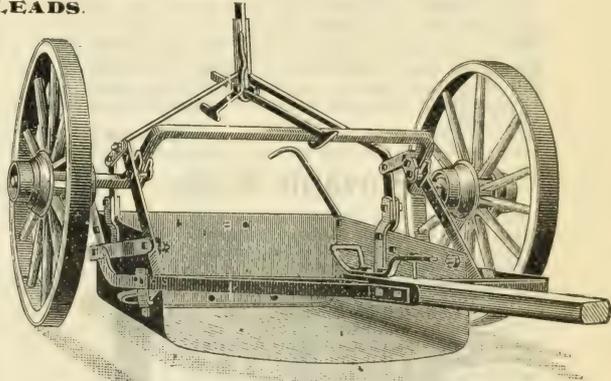
Price..... **\$5.25**

SPECIAL DISCOUNT FOR CASH.

Haslup Patent Wheel Scraper.

IT LEADS.

There are some very strong points about this Scraper—facts that are indisputable: It measures the amount of work done. The lifting lever is very powerful; working parts, of steel, are few and simple; automatic yet free from springs or cumbersome traps. The adjustable hooks that prevent Scraper from dumping while filling, are on the pan, out of the way of obstructions. The hooks on the hounds are very heavy. Positive action of hooks on hounds upon those on side of pan; no slipping; no dumping while filling. High axle; spindles thoroughly protected from sand and dirt; snatch rod extends back to double-tree, practically taking weight off horses' necks.



The trouble heretofore with Wheel Scrapers has been the breaking, twisting and bending of hounds on tongue, throwing working parts out of line, thereby preventing satisfactory work. All this is obviated in this Scraper. Following are some of the points of improvement: Hounds are doubled on tongue, strengthened by a system of braces and supports. The double hounds, joined by heavy piece of steel, set edgewise, passing through strong loop, extending around end of tongue, preventing twisting or sagging, permitting no failure of hooks on hounds catching on adjustable hooks on side of pan when lever is thrown forward for filling. Stationary hooks on hounds are strong and heavy, well braced, and securely riveted.

SUGGESTIONS AND DIRECTIONS FOR USING WHEELER.

Always raise the Scraper out of the ground while the team is in motion. See that all the bolts on the Scraper are drawn up tight and all the bearings kept well oiled.

An ordinary team can work No. 2 size. The No. 3 size can be worked with one team, but to fill the Scraper well it needs an extra team in filling, and each No. 3 Wheeler is complete with a snatch rod. The snatch rod is placed under the double-tree, practically taking all weight off the horses' necks.

To load, hold the lever in an upright position until the foot piece on the end of the lifting device comes in contact with the lug on the hounds. Raise on the handles of the scraper box until the point catches in the ground. The Scraper will run perfectly level and regulate the depth itself. When the Scraper is full, bear down on the lever until the hook catches on the back of the pan.

ORDER BY NUMBER ONLY—WE MAKE THREE SIZES.

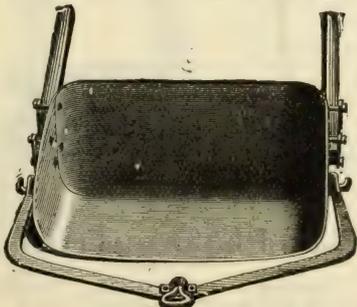
No. 1, capacity 9 cubic feet; weight 375 lbs.
Price **\$23.00**

No. 2, capacity 13 cubic feet; weight 500 lbs.
Price **28.75**

No. 3, capacity 17 cubic feet; weight 650 lbs.
Price **35.25**

SPECIAL DISCOUNT FOR CASH.

Haslup Round Back, Solid Pressed, Drag Scraper.



No. 1 carries 7 feet of earth; weight 90 lbs.... **\$5.50**
No. 2 carries 5 feet of earth; weight 80 lbs.... **5.25**
No. 3 carries 3 1/2 feet of earth; weight 70 lbs **5.00**

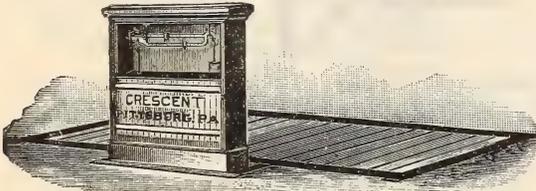
SPECIAL DISCOUNT FOR CASH.

Special Prices in Quantities.

Crescent Wagon Scale.

One of the best Farm and Stock Scales made. Strong, accurate and durable. Every Scale guaranteed. 5 tons capacity. Platform 14 ft. long, 8 ft. wide. With double brass beam and beam box.

To meet the demand for a moderate priced Wagon, Stock, Hay and Coal Scale, we are now pleased to offer the CRESCENT SCALE, United States Standard. We do not hesitate to state this is one of the best Wagon Scales in the market for the money. Iron Levers, Steel Pivots, Brass Beam, Sliding Poises and Beam Box.



Notice.—No extra charge for Beam Box, which is strong, substantially made, nicely painted and lettered. No extra charge for Double Brass Beam with Sliding Poises, which are made of the best material and highly finished.

The Beam is located two feet from edge of platform, allowing a wagon load of hay 12 feet wide to pass over scale without interfering with Beam Box. It only requires a shallow pit. A complete plan is furnished every customer, showing foundation and bill of timber, together with the building directions. It is so plain that any ordinary carpenter can erect the scale.

Price.....\$65.00

Portable Scale.

Has been on the market about five years, and is becoming favorably known as the finest scale that is being offered the trade today at any price.

They are carefully adjusted by competent workmen, and are guaranteed accurate U. S. Standard Scales.

They are by no means cheap in appearance or construction. The material throughout is of the same quality as is used in the highest priced goods. The brass work is highly polished, the iron work is japanned in black, and the wood work is finished in its natural color, making a very attractive combination.

They are carefully packed for shipment and can be set in position ready for use in a few minutes.

Sizes are as follows:

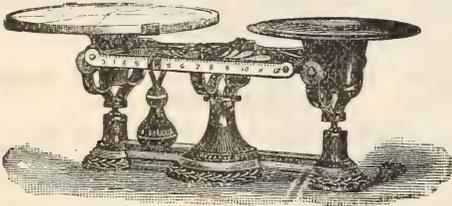
- 600 lbs. Size of Platform, 16x23.....\$12.50
- 800 lbs.\$14.50



Butter Trip Scales.

No. 827—One Round Porcelain Plate and one Brass Plate.

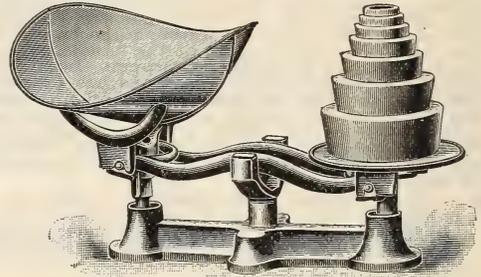
| Capacity. | Without Weights. | With Weights. |
|--------------------------|------------------|---------------|
| List Price..... 6 lbs. | \$8.00 | \$8.75 |
| Retail Price..... 6 lbs. | \$6.00 | \$6.57 |



Our manufacturers build a complete line of scales, and if our customers are in need of anything in the line we will be pleased to correspond with them.

Daisy Tea Scales.

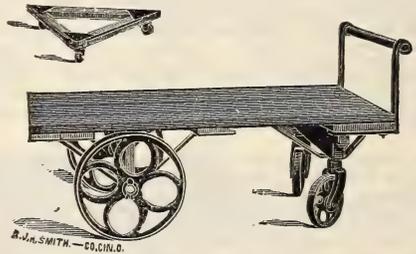
Scales nicely Japanned, with Plate and Fork for Scoop. The cheapest accurate Scales made.



| No. | Capacity. | Scoop. | Retail Price. | List Price. |
|--------|-----------|--------|---------------|-------------|
| 160 T. | 2 lb. | Tin. | \$1.25 | \$1.70 |
| 161 T. | 4 lb. | Tin. | 1.35 | 1.80 |
| 042 T. | 4 lb. | Tin. | 1.65 | 2.20 |
| 042 B. | 4 lb. | Brass. | 2.25 | 3.00 |

WRITE FOR SPECIAL CATALOGUE.

Four Wheel Platform Truck.



For Canning House, Railroad Stations and Warehouse. Cheap, strong and well made.

| Size Platform. | Diam. Wheels. | Diam. Castor. | Weight. | Price. |
|-----------------|---------------|---------------|----------|---------|
| No. 1, 2x4 ft. | 12 in. | 6 in. | 120 lbs. | \$20.00 |
| No. 21, 3x5 ft. | 18 in. | 9 in. | 200 lbs. | \$28.00 |

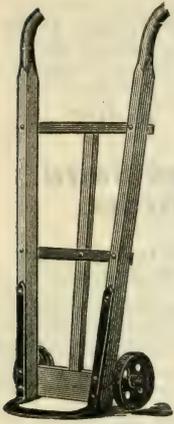


Plain Platform Truck.

| Size Platform. | Weight. | Diam. Wheels. | Price. |
|------------------------------------|----------|---------------|---------|
| No. 82, 2 ft. 4 in. by 3 ft. 4 in. | 100 lbs. | 7½ in. | \$14.00 |
| No. 83, 2 ft. 6 in. by 3 ft. 6 in. | 115 lbs. | 7½ in. | 15.00 |
| No. 84, 3 ft. by 4 feet.... | 125 lbs. | 8½ in. | 17.00 |

We are prepared to quote special prices on Trucks of every description. If you want anything special write us for prices.

STORE TRUCKS.



BALTIMORE STORE TRUCK.

BALTIMORE STORE TRUCK.

Best light Truck made for the money.

List Price.....\$4.00
Retail Price.....2.00

NEW YORK PATTERN.

| HALF STRAPPED. | | | FULL STRAPPED. | | |
|----------------|-------------|---------------|----------------|-------------|---------------|
| No. | List Price. | Retail Price. | No. | List Price. | Retail Price. |
| 0 | \$ 4 40 | \$2 45 | 0 | \$ 5 15 | \$2 85 |
| 1 | 4 60 | 2 55 | 1 | 5 35 | 3 00 |
| 2 | 6 10 | 3 35 | 2 | 7 10 | 3 90 |
| 3 | 8 00 | 4 40 | 3 | 9 01 | 4 95 |
| 4 | 9 50 | 5 25 | 4 | 11 00 | 6 05 |
| 5 | 11 50 | 6 35 | 5 | 13 50 | 7 45 |

NEW YORK PATTERN.

| No. | Length handles. | Width nose. | Width at upper bar. | Diameter wheels. | Weight. |
|-----|-----------------|-------------|---------------------|------------------|---------|
| 1 | 4' 0" | 12" | 17 1/2" | 7" | 35 lbs. |
| 2 | 4' 5" | 14" | 18 1/2" | 8" | 55 " |
| 3 | 4' 8" | 15" | 21" | 9 1/2" | 64 " |
| 4 | 5' 0" | 16" | 21" | 9 1/2" | 82 " |
| 5 | 5' 3" | 18" | 22" | 10 1/2" | 95 " |
| 6 | 5' 9" | 20" | 23 1/2" | 12" | 125 " |



NEW YORK PATTERN.

DIMENSIONS AND PRICES, CAST IRON TRUCK WHEELS.

| No. | Pounds weight | Height inches | Face inches. | Hub inches. | Bore inches. | Retail Price each. | List Price ach. |
|-------|---------------|---------------|--------------|-------------|--------------|--------------------|-----------------|
| 0 | 4 1/2 | 6 1/2 | 1 1/2 | 2 1/4 | 3/4 x 7/8 | \$ 27 | \$ 36 |
| 1 & 2 | 7 1/4 | 8 | 2 | 2 3/8 | 3/4 x 7/8 | 44 | 58 |
| 3 | 12 3/4 | 9 1/2 | 2 1/2 | 3 1/4 | 7/8 x 1 | 76 | 1 02 |
| 4 & 5 | 17 1/2 | 11 | 3 | 3 3/4 | 1 x 1 1/8 | 1 05 | 1 40 |
| Heavy | 25 | 12 | 3 | 3 3/4 | 1 x 1 1/8 | 1 50 | 2 00 |

NEW YORK BARREL TRUCKS.

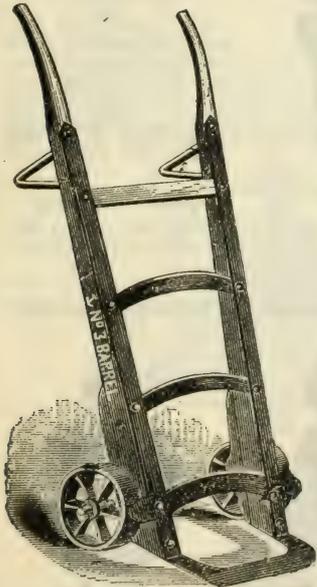
| No. | List Price. | Retail Price. |
|-----|-------------|---------------|
| 1 | \$ 7 00 | \$3 85 |
| 2 | 9 00 | 4 95 |
| 3 | 10 50 | 5 80 |
| 4 | 12 50 | 6 90 |
| 5 | 15 00 | 8 25 |

COTTON TRUCKS.

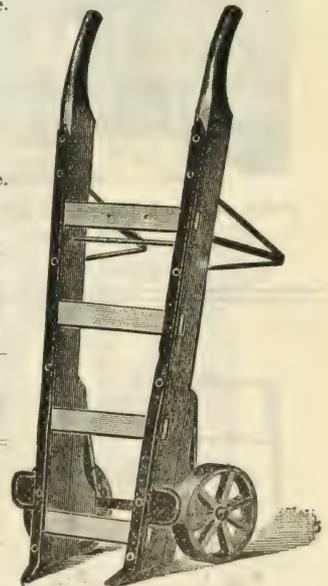
| No. | List Price. | Retail Price. |
|-----|-------------|---------------|
| 3 | \$ 9 00 | \$ 5 00 |
| 4 | 11 00 | 6 00 |
| 5 | 13 50 | 7 50 |

| New York Barrel Truck | Length of handles. | Width of nose. | Width at upper bar. | Diameter of wheels. | Weight in pounds. |
|-----------------------|--------------------|----------------|---------------------|---------------------|-------------------|
| No. 1 | 4' 0" | 12" | 17 1/2" | 7" | 42 |
| 2 | 4' 5" | 14" | 18 1/2" | 8" | 65 |
| 3 | 4' 8" | 15 1/2" | 20 1/2" | 9" | 74 |
| 4 | 5' 0" | 16" | 21" | 9 1/2" | 95 |
| 5 | 5' 3" | 18" | 22" | 10" | 120 |

| Cotton Truck | Length of handles. | Width of nose. | Width at upper bar. | Diameter of wheels. | Weight in pounds. |
|--------------|--------------------|----------------|---------------------|---------------------|-------------------|
| No. 3 | 4' 8" | 15 1/2" | 20 1/2" | 9" | 65 |
| 4 | 5' 0" | 16" | 21" | 9 1/2" | 82 |
| 5 | 5' 3" | 18" | 22" | 10 1/2" | 95 |
| 6 | 5' 9" | 20" | 23 1/2" | 12" | 125 |



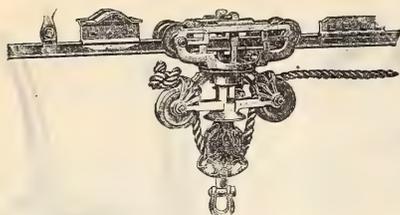
NEW YORK BARREL TRUCK.



COTTON TRUCK.

CAN FURNISH SPECIAL TRUCKS AT LOWEST POSSIBLE PRICES.

COMPETENT MECHANICS TO REPAIR MACHINERY.

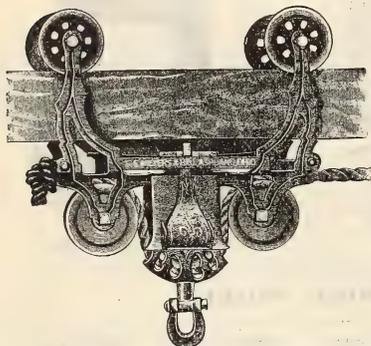


THE HAYMAKER CARRIER FOR STEEL TRACK.

This Carrier is known as a combination machine or a swivel and reversible both in one. It is constructed with straight flanged wheels, bored on lathes, so as to run true, which revolve on a 3/4 inch turned steel axle. It has a POSITIVE FORCE LOCK with no springs. Stop is clamped to TOP OF TRACK. Hanging Hook is malleable iron composed of two parts. THE TRACK is solid steel. I-beam, 2 1/16 inches wide by 1 1/4 inches deep.

Price.....\$4 00

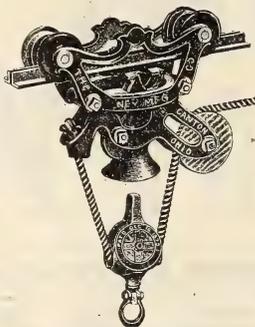
Meyers Double Lock Reversible Carrier.



An examination of the working parts of this Carrier will show that it is a Double Lock Carrier. The stop has a notch on each side and Carrier also either will hold it in, while elevating fork full of Hay. Has 3 in. track wheels, which revolve on 3/8 in. turned steel axels. All rope wheels are fitted with large bushings. Un-

questionably one of the simplest, most durable and reliable Carriers made. Price.....\$3 50

Ney's Patent Improved Swivel Reversible Hay Carrier.

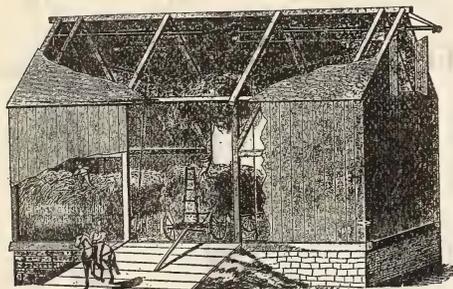


For Double Angle Steel Track.

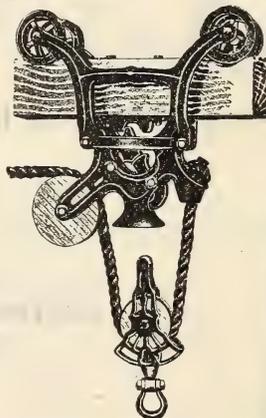
This Carrier possesses the following advantages: It will not pass the bumper or trip block while in operation. The lock is positive and cannot fail to work perfectly. It is entirely independent in its movements, and has neither springs, clutches nor lugs to break, wear out or get out of order. Track travelers and rope pulleys revolve on turned iron bushing.

Price.....\$4 00

Steel Track Hay Car in use.



Price of Track for Steel Carrier, Per Foot, 10 Cents.



Ney's Patent Wood Track Carrier.

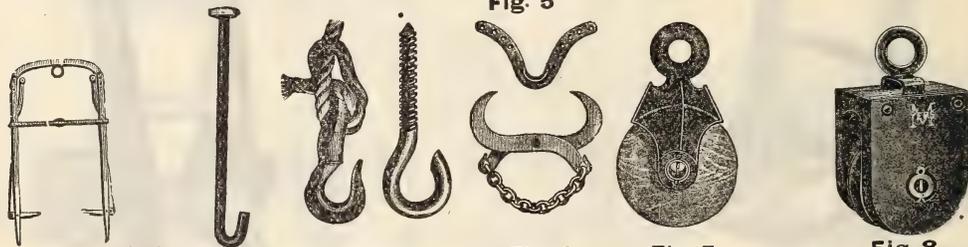
This cut shows the Swivel Reversible Carrier for Wood Track. In construction it is the same as the steel track car (reverses the same way), except that it is made to run on 4x4 wood track. The best swivel wood track car made.

Price.....\$3 50

Write for special discount from these prices.

HAY TOOL SUPPLIES.

Fig. 5



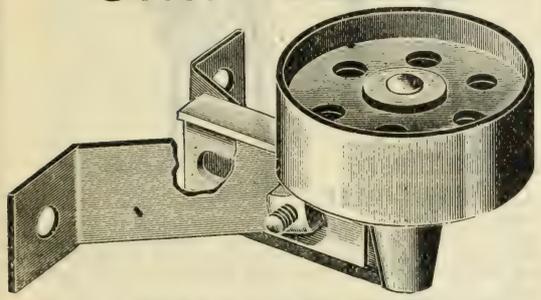
- Fig. 1 Price—Fig. 1—Double Harpoon Hay Fork.....90 cents
 " 2—Hanging Hook.....06 "
 " 3—Patent Rope Hitch.....20 "
 " 4—Floor Hook.....06 "
 " 5—Rafter Bracket.....05 "
 " 6—Rafter Grapples.....50 "

- Fig. 6 Price—Fig. 7—Maple Sheave Pulley.....25 cents
 " 8—Iron Strapped Pulley.....30 "
 " Knot Passing Pulley.....30 "
 " Plain Iron Pulleys.....25 "
 " Rafter Nails per pound.....05 "
 Write for Special Cash Discount from these prices.

THE CANTON HOIST.

Can be used to advantage in factories of all kinds, foundries, quarries, mills and warehouses; also by contractors, carpenters, stone masons and all classes of mechanics, as well as farmers. They are indispensable on the farm.
 Special farm size, No. 37, capacity 800 pounds; one man can lift 400 pounds.
 Price.....\$4.00

STAY ROLLERS.



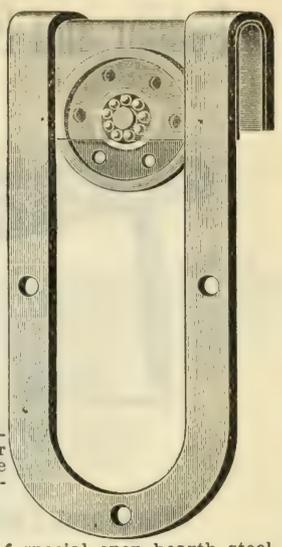
For use on Barn Door Hangers.

Price, each10c.

RAFTER NAILS.

Price, per lb.....5c.

THE NEY ANTI-FRICTION BARN DOOR HANGER No. 2.

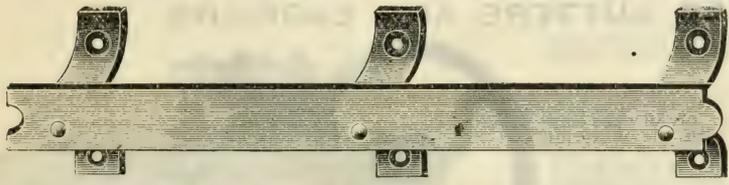


This Hanger is ANTI-FRICTION, containing roller bearings, which cause the wheel to roll easily and prevent wear.

The frame is made of special open hearth steel, and the strength is fully sufficient for the heaviest doors, and has hood protecting the wheel from snow and ice.

The wheel is 4 inches in diameter, and of standard tread, therefore can be used on other tracks.
 Finished in black baking japan, and packed one dozen pairs in a crate.
 Price, per pair.....60c.

THE NEY STEEL BARNDOOR TRACK.



This Track is made of SPECIAL CARBON OPEN HEARTH STEEL, 1x3-16 stock, and has heavy brackets well and substantially riveted to it at every 12 inches. The ends are made with tongue and groove to match.

The track is made in 4, 6, 8 and 10 foot lengths.
 It is easily erected, and requires no roofing or covering of any kind.

Price per 100 feet.....\$2.50

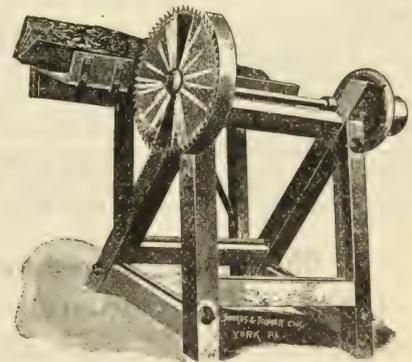
DECARBONIZED METAL FARM BELLS.



| No. | Diameter of Bell. | Weight Complete. | List Price, Bronzed. | Retail Price, Bronzed. |
|------------|-------------------|------------------|----------------------|------------------------|
| No. 1..... | 15 | 40 pounds. | \$4.00 | \$1.60 |
| " 2..... | 17 | 50 " | 5.00 | 2.00 |
| " 3..... | 19 | 75 " | 7.50 | 3.00 |
| " 4..... | 20 | 100 " | 10.00 | 4.00 |

Above prices include bells and hangings complete.

CIRCULAR SAW WITH SWINGING TABLE.



Farmers and others who use saws can at once appreciate the great convenience of this machine. It has a swing table, which is the best style for cutting cord wood. One man can do the work with this saw as readily as two men on the regular style. In this machine the draft is direct from the power to the saw, consequently it takes less power to drive it.

| | Retail Price. | List Price. |
|-----------------------|---------------|-------------|
| With 20 inch Saw..... | \$28.00 | \$40.00 |

"Ohio" Standard Ensilage and Feed Cutter.

WITH EXTENDED TABLE AND TRAVELING SELF-FEED APRON.
A GREAT INVENTION.

The design of this machine is same as the regular Nos. 11, 13, 16 and 18. It differs in respect to the feed table, which in this machine is extended out to a total length of eight feet.

The feed table is supplied with a continuous traveling chain belt or apron, which converts the machine into a self-feeder. The traveling apron is driven by chain and sprocket wheels, and is under control of the feeder by means of the throw-out lever located just in the rear of the lever that controls the feed rolls.

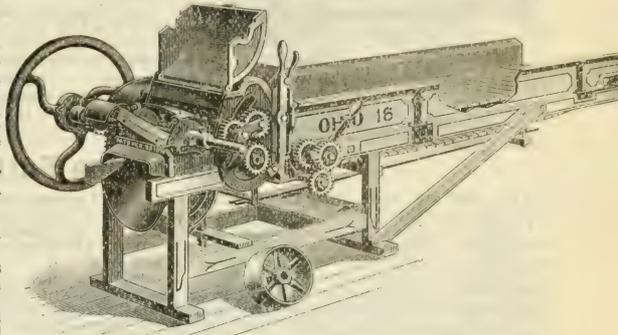
This is a strong point of advantage, as it is well known to parties familiar in the use of such machines that occasionally a horse shoe, or some other foreign substance, gets into the machine, and about the time it reaches the knives the feeder has only to catch these levers and throw the feed out.

By the use of this machine one man can feed it, and he will do the work with one-fourth the manual force necessary to feed the regular machine. There is a gain in the cutting capacity of no less than 33-3 per cent., and the teams and workmen in the field are necessarily kept closer to work.

By reason of wide, open throat (being full width of cutting surface, all sizes) and improved patented feeding device, they have larger capacity than others.

The Knife Shafts are STEEL, and are very strong and stiff. The Journal Boxes or bearings are wide and heavy, and babbitted with high-grade metal. The Knives are secured to our Solid Knife Heads by bolts with LOCK NUTS, to prevent working loose, and backed up by set screws, as shown, to hold them securely to place.

The Frames, all sizes, are made of seasoned HARDWOOD timber, are mortised and FRAMED together in the best manner, making the strongest and STIFFEST frame made.



Nos. 13, 16 and 18 are our medium priced Ensilage and GENERAL PURPOSE power machines, all very large capacity, and by far the most serviceable machines made. All sizes are adapted to cutting hay, straw and corn fodder, with or without ears, and green or dry. All sizes are extensively used for Ensilage, and also for tobacco, rags and other materials.

PRICE LIST.

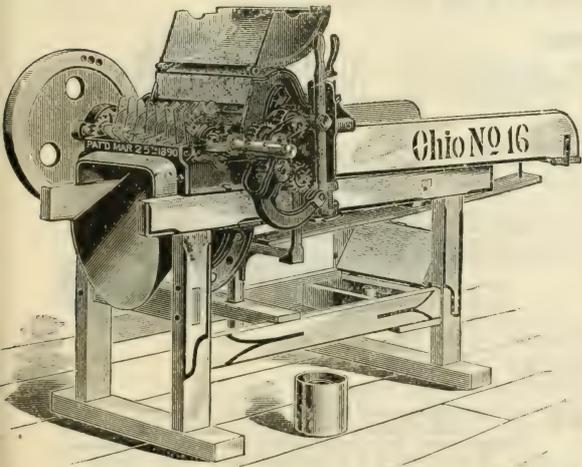
| | |
|---|----------|
| No. 13, with four Knives 13 inches long, four lengths cut | \$ 95.00 |
| No. 16, with four Knives 16 inches long, four lengths cut | 120.00 |
| No. 18, with four Knives 18 inches long, four lengths cut | 155.00 |

| | |
|---|--------|
| No. 20, with four Knives 20 inches long, four lengths cut | 250.00 |
| No. 24, with four Knives 24 inches long, four lengths cut | 300.00 |

Less 40 per cent. retail.

For price of Carriers, see page 116.

The "Ohio" Dry Fodder Shredder Complete.



The Shredder head can be removed and the knife cylinder attached instead, in case the machine is wanted for Hay or Ensilage cutting.

In order to reap the best results in shredding, the machine must be speeded up to TEN or TWELVE HUNDRED REVOLUTIONS PER MINUTE; for that reason, we use the fly wheel seen in the cut, instead of the open wheel in the Ohio Cutter.

| | |
|--|----------|
| No. 11, with Solid Fly Wheel and 6-inch Pulley | \$ 45.00 |
| No. 13, with Solid Fly Wheel and 6-inch Pulley | 65.00 |
| No. 16, with Solid Fly Wheel and 6-inch Pulley | 90.00 |
| No. 18, with Solid Fly Wheel and 6-inch Pulley | 120.00 |
| No. 20, with Regular Fly Wheel, Small Pulley | 200.00 |
| No. 24, with Regular Fly Wheel, Small Pulley | 250.00 |

Less 40 per cent. retail.

Shredder Cylinders Only.

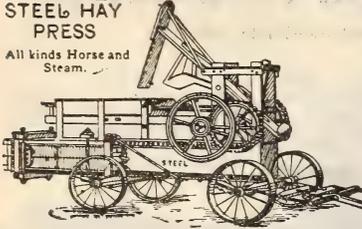
| | |
|--|---------|
| For No. 11, including Fly Wheel and Pulley.... | \$25.00 |
| For No. 13, including Fly Wheel and Pulley.... | 28.00 |
| For No. 16, including Fly Wheel and Pulley.... | 30.00 |

| | |
|--|-------|
| For No. 18, including Fly Wheel and Pulley.... | 32.00 |
| For No. 20, including Pulley, no Fly Wheel.... | 50.00 |
| For No. 24, including Pulley, no Fly Wheel.... | 55.00 |

Less 40 per cent. retail.

Dederick Portable Baling Presses for Steam Power.

STEEL HAY PRESS
All kinds Horse and Steam.



Price Complete.....**\$500.00** Price 17x22 complete.....**\$550.00**

Wood Frame, Iron and Steel Press with same attachments as above. } Less 20 per cent. discount f. o. b. factory.
Price Complete 14x18 size, **\$400.00** Price Complete 17x22 size, **\$450.00**
Less 20 per cent. discount f. o. b. factory.

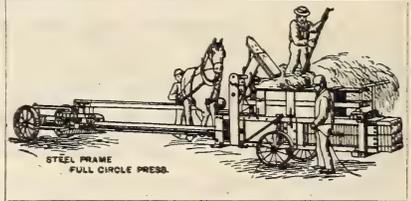
Steel Frame Full Circle Press.

This was the only Full Circle Press that dared appear when called out for competitive test at the Chicago Columbian World's Fair.

It is the cheapest, smallest, neatest, prettiest, most durable, easiest moved and operated, quickest placed, most rapid and effective both in operation and results, and gives best satisfaction.

Fig. 5—Size bale chamber 14x18. With patent bale chamber, patent friction adjustment, patent double stroke power, patent pipe connection, patent condensing hopper, patent automatic feeder, patent folder roller, tieing partitions, scaffold, truck, doubletrees, neck yoke, two wrenches and oil can.

Price complete.....**\$350.00**
17x22 or any other size bale.... **\$375.00**
Less 20 per cent. discount f. o. b. factory.



STEEL FRAMES ALL KINDS OF HORSE AND STEAM POWER.



Steel Case Reversible Press.

Our Steel Reversible Press is the most popular Farmer's Horse Press by reason of compact bales, and working in buildings with only the horse lever vibrating outside, and for making the popular 17x22 size bale. We do not hesitate to recommend it as the most durable, economical and money making horse power continuous press for either the farmer or hay shipper.

Our wood frame press is constructed in the most durable manner from the best hard wood, lumber, steel and iron, and the inside of the press and bale chamber is lined with steel.

Fig. 1—Size bale chamber 17x22. Patent steel case press, with patent bale chamber, patent friction adjustment, patent loose reversible horse lever with patent adjustment, short movement, patent double acting power, with patent bumpers and patent friction rebound stop, patent condensing hopper, patent folder roller scaffold, truck, doubletrees, neck yoke, two wrenches and oil can.

Patent wood frame, iron and steel press, 17x22, with same attachments as above with the exception of adjustable short movement and patent bumpers attachments. Price complete....**\$275.00**
The same as above with tray hopper, as used on all other presses. Price complete.....**\$250.00**
Less 20 per cent. f. o. b. factory.

All orders understood to mean with condensing hopper unless otherwise stated.

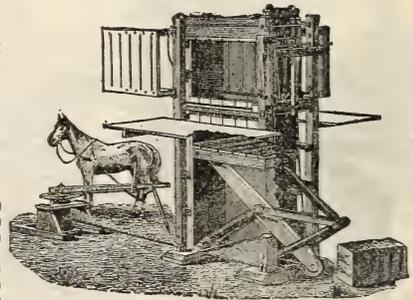
The Dederick Columbian Press.

The Columbian Press is beyond a question or a doubt the best box press in the world. These presses are easily loaded on any farm wagon, between the stakes. Especially adapted to the baling of straight threshed rye straw in bundles.

PRICE-LIST OF COLUMBIAN PRESSES.

For Hay, Straw, Husks, Broom Corn, Hemp, Jute, Rags, Flax, Moss, Excelsior, Hops, Cotton, Hide, Wool, Hair, Cut Hay, Shavings, Planing Chips, Cotton Husks, Coconut Husks, Cork Scraps, Paper Scraps, Twine, Waste, Rope Fags and any other loose material.

No. 5—Box Frame Hand Press, box 5 ft. deep, 45 in. x19 in.
or 45 in. x26 in., price.....**\$150.00**
Same press, combined horse and hand price.....**175.00**
Same press, with power attachment for belt, price.....**225.00**
No. 4—Box Frame Hand Press, box 6 ft. deep, 45 in. x19 in.
45 in. x26 in., price.....**175.00**
Same press, combined horse and Hand, price.....**200.00**
Same press, with power attachment for belt, price.....**250.00**
No. 2 — Full Frame Horse Press, box 7 ft. deep, 45 in. x24 in., for 7 ft. 6 in. band, steel wire rope with capstan or wheel scaffolding, etc., price.....**\$300.00**
Power attachment for belt instead of wheel or capstan add \$75 to list price.
20 per cent. discount f. o. b. factory, from any of above prices.



Dederick's Toggle Link Hand Press.

For Hay, Straw, Broom Corn, Hemp, Hop, Rag, Moss, Husk, Cotton, Wool, Hair, Manure, etc.

Five feet depth of box; bale 8 feet 10 inches long, 25x25, price.....**\$100.00**
Same press, bale 34x18x16 inches, price... **100.00**
20 per cent. f. o. b. factory, from these prices.

Baling Ties.

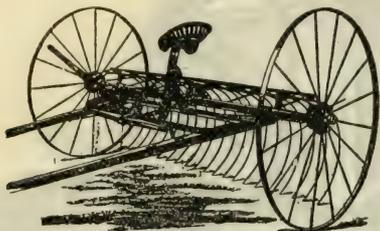
The cost of Bale Ties is from 40 to 60 cents per ton of hay. We have spared no expense to secure the best methods and the most efficient machinery. To get the length of tie required add 3 inches to the measure around the bale when under pressure. We keep in stock only the standard size, No. 15, 8½ feet long, but can furnish any of the other sizes and lengths on order at lowest prices.
List price—No. 15, 8½ feet long...**\$4.51** Retail price—No. 15, 8½ feet long...**\$1.50**



ANNEALED BALING WIRE — Nos. 11, 12, 13, 14 and 16 always on hand at lowest market prices.

BALTIMORE SELF-DUMP RAKE

MADE IN EITHER WOOD OR STEEL.



THE WOOD RAKE has a solid iron axle, 1 1/2 inches round iron, extending from wheel to wheel. The ratchets are in the hub and discharges its load by the onward movement of the horse. The Baltimore disengages noiselessly without jar or strain. We claim for it greater strength because the parts are united securely to the iron axle and the wood rake-head. It dumps from both wheels, but can be discharged by either one singly at will.

The Steel Rake differs from the wood only in point of material used in its construction, the running gear and frame being entirely of steel.

—PRICES:—

Baltimore Self-Dump Rake, Wood.....\$19.00 } Less \$1.00 each for cash.
Steel.....\$20.00 }

BALTIMORE HAND-DUMP RAKE,

Made in either Wood or Steel.

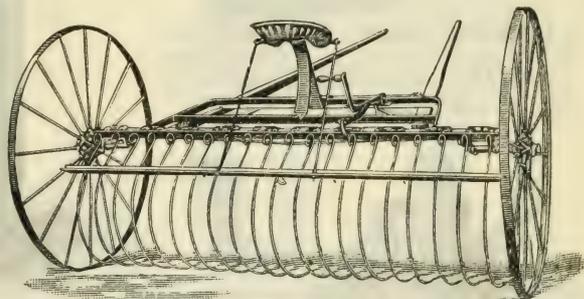
THIS Rake is made of thoroughly seasoned hard wood. The axle arms are 1 1/2-inch round iron, securely bolted to the wood axle head. It has 20 teeth of spring steel, same as above. Every tooth independent. The seat is adjustable and can be raised or lowered for man or boy.

The Steel Hand-Dump Rake is similar in all respects, excepting in material used.

—PRICES:—

Baltimore Hand-Dump Rake, Wood.....\$16.00
Steel.....\$17.00

Less \$1.00 each for cash.

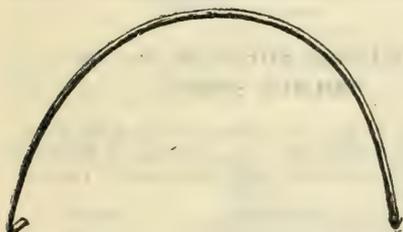


HAY RAKE TEETH.

FOR all leading Hay Rakes, including Baltimore, Thomas, Gazelle, Tiger, Taylor, Dayton, Red Bird, etc. Plain and with coil. When ordering always be very careful to state whether you want plain or coil teeth, right or left hand, and if there are several different styles of teeth used on the same make of rake, it is the best plan to send a drawing, giving as near as possible the exact curve of old tooth.

Price, 25 cents each.

SPECIAL PRICES IN QUANTITIES.



Baltimore Hay Tedders.

THIS is a fac-simile to our Baltimore Rake in point of construction and substantiability.

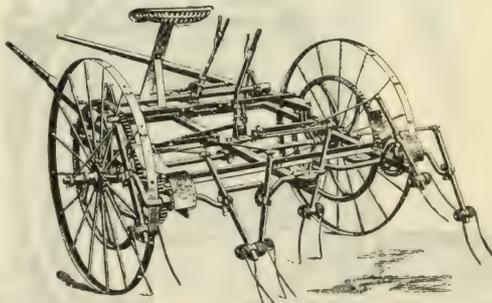
Combination shafts and tongue; without side fork and shields over gearing.

The Baltimore has new bent shifting lever which makes a complete lock. Also is provided with a most comfortable spring seat, levers for raising and lowering, and throwing in or out of gear, within easy reach of the driver. Combined pole and shafts, quickly and easily changed from a one to a two-horse machine.

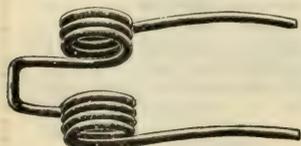
—PRICES:—

Baltimore Tedder, Wood.....\$28.00
Steel.....30.00

Less \$2.00 each for cash.



Thomas Royal Tedders, Wood or Steel, - - - \$30.00.



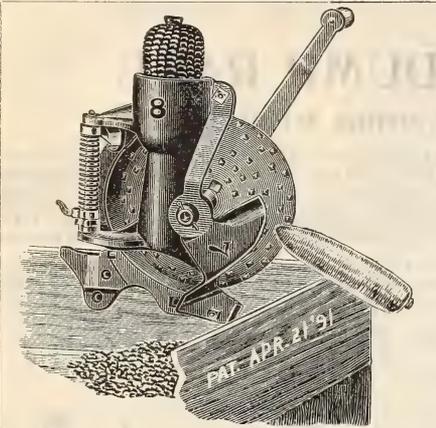
Hay Tedder Forks.

Always on hand stock of Forks for leading styles of Hay Tedders, including Baltimore, O. R. C., Thomas, Bullard, Tiger, &c.

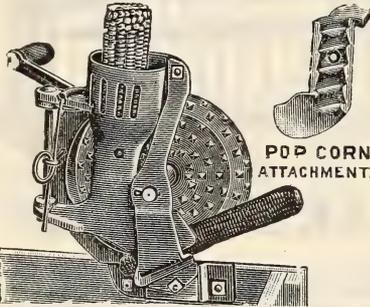
PRICE.....25 cts.
SPECIAL PRICES IN QUANTITIES.



ALL KINDS OF REPAIRS ON HAND.

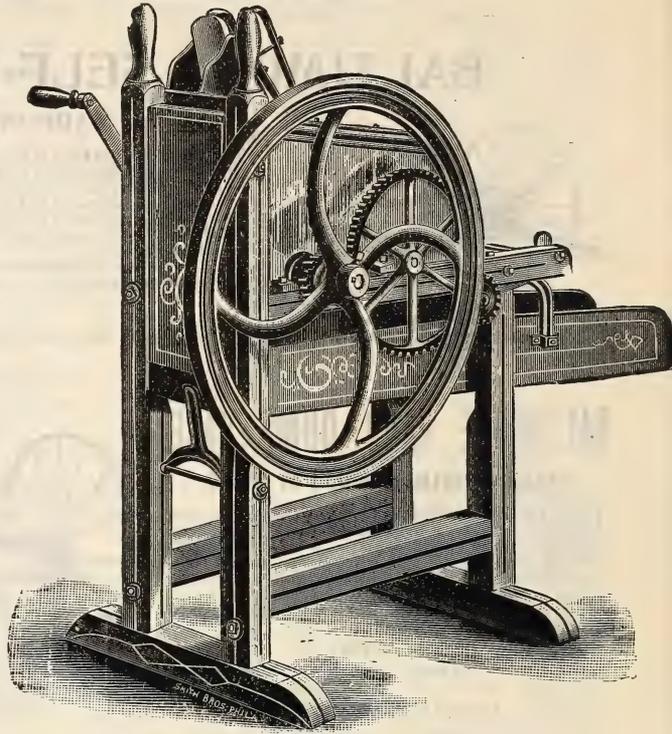


CYCLONE CORN SHELLER.—The Cyclone, we are sure will meet all requirements, overcoming the frequent clogging and choking, which is the constant objection to some other machines in the market, and we have now a machine which will please the trade. **Price, \$2 00.**



POP CORN ATTACHMENT.

"EASY" CORN SHELLER.—Simple, strong, convenient and cheap. Weight, 15 pounds. Capacity, 8 to 10 bushels per hour. **Price, \$1 50.**



Number 20.

BALTIMORE SHELLER, No. 20, DOUBLE SPOUT.

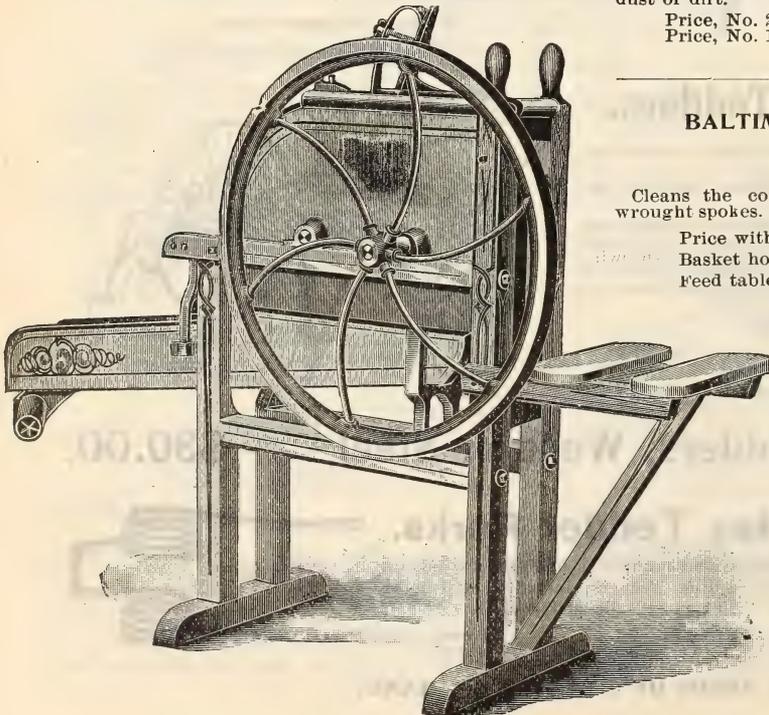
Hand and Power, with shaker belt and fly wheel. Capacity 200 bushels per day. Capacity by power wheel to 600 bushels. Number 18 similar to Number 20, but without shaker and with screen at bottom to take out dust or dirt.

Price, No. 20 with shaker..... \$16 00
 Price, No. 18..... 15 00

BALTIMORE SHELLER, No. 2, SINGLE HOLE.

Cleans the corn thoroughly. Heavy fly wheel, wrought spokes. Capacity 125 bushels per day.

Price without basket holder.....\$8 00
 Basket holder extra..... 60
 Feed table extra..... 1 00

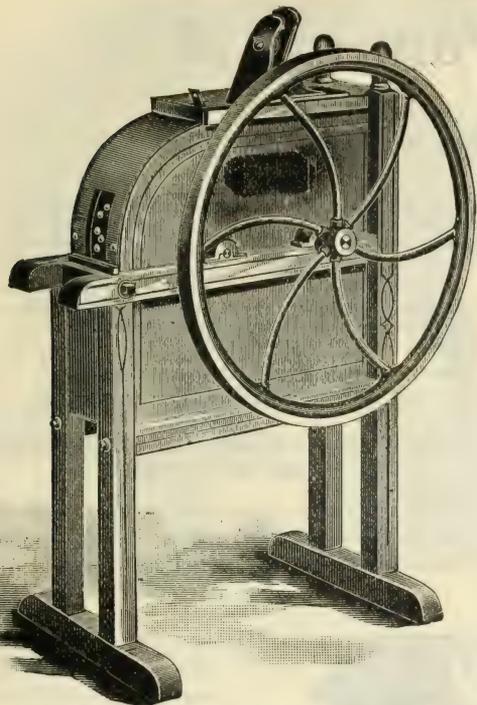


THE BALTIMORE SHELLERS

Are all made with heavy fly wheels and steel shafts. Finely finished. Easy running and in every way classed among the best shellers on the market. The gears are all made inside and no danger to operator, can adjust to large or small ears of corn.

BALTIMORE SHELLERS

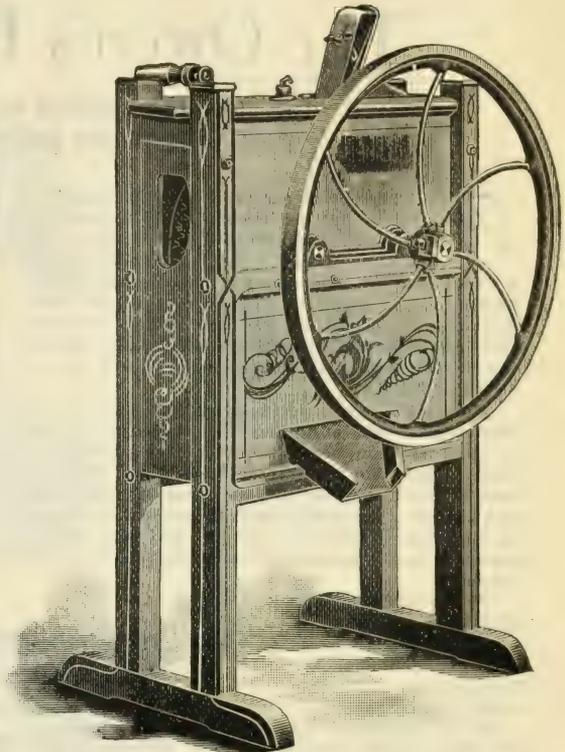
Continued.



No. 3—Single Spout

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 bushels a day.

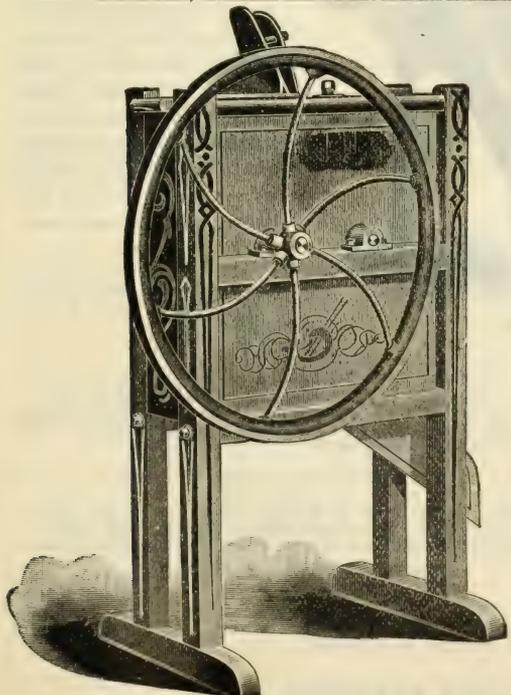
| | |
|---------------|--------|
| Plain..... | \$6 00 |
| With fan..... | 6 50 |



No. 4—Single Spout

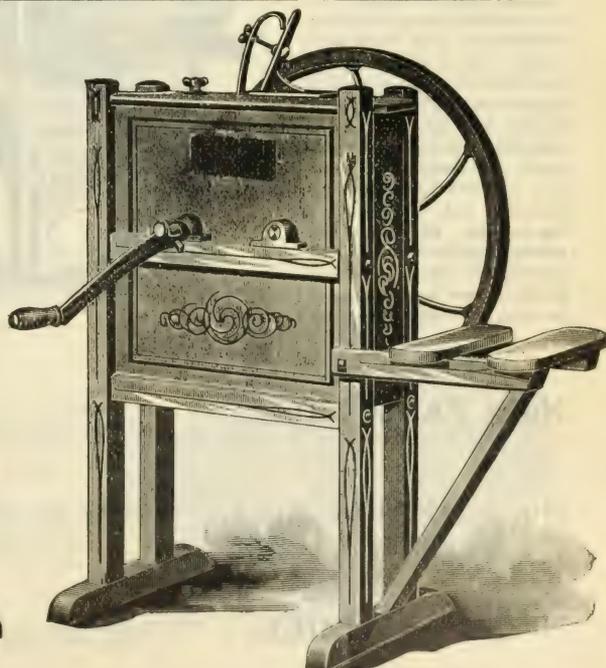
No. 4 screens corn; side delivery; light-running; strong steel shafts. Capacity, 125 bushels a day.

| | |
|------------|--------|
| Plain..... | \$6 00 |
|------------|--------|



No. 6.—Single spout; corn and cob together. Capacity, 125 bushels per day.

| | |
|------------|--------|
| Price..... | \$5 00 |
|------------|--------|



No 5.—Capacity, 125 bushels per day; single spout; left hand.

| | |
|----------------------------|--------|
| Without basket holder..... | \$5 50 |
| Basket holder extra..... | 60 |

The Owen's Fanning Mills.

THE GREATEST SUCCESS OF THE NINETEENTH CENTURY.
IN GRAIN CLEANING MACHINERY.

AFTER years of careful study, the manufacturers of this machine have succeeded in placing on the market a COMBINATION MACHINE that WILL take COCKLE from WHEAT and all other grains; will separate MUSTARD and all FOUL SEEDS from FLAX, ETC.

It also cleans OATS, BARLEY, PEAS, BEANS, CLOVER, TIMOTHY, MILLET, ALFALFA. Separates RYE from Wheat, and cleans CHEAT out of WINTER WHEAT.

These mills are a decidedly radical change and improvement from any principle ever before evolved for cleaning grain, heretofore it has been considered simply impossible to effectually separate COCKLE from WHEAT, and the consumer has been satisfied with the old styles, which clean the grain well enough for flour, but to obtain a machine that will render grain sufficiently desirable for seed has been the great trouble.

We furnish the OWEN'S AUTOMATIC Force Feeder with all Mills. All of these Mills are End Shake with the exception of Number 20 which is Side Shake.

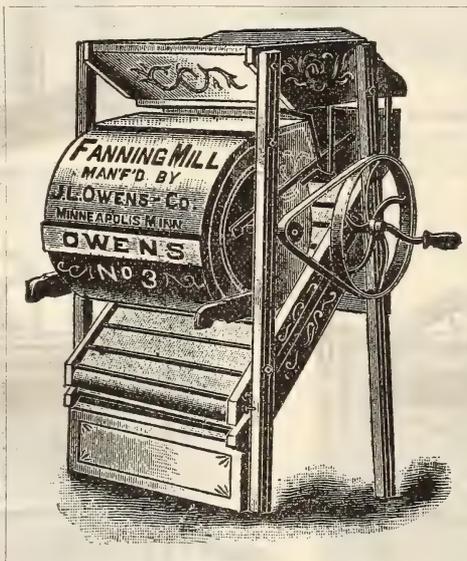
It will be noticed that in all other mills they depend entirely upon blast to clean the grain. While we have an equal amount of blast, we also have, in addition to it, a Cockle Separator, which removes all fowl seeds perfectly. The Cockle Separator is constructed in such a manner as to allow the grain to pass over an inclined, stationary sieve of proper mesh, the grain being kept in a horizontal direction by means of slats on a revolving canvas. By having the screen stationary, we are enabled to use a sieve of much coarser mesh than can be used in other mills, and

for this reason we are able to remove LARGE FOUL SEED from the small wheat. As can readily be seen, the grain is constantly kept parallel with the slats, and a revolving motion imparted to it, so that all of the grain is brought in contact with the screen, and all fowl seeds, smaller than a kernel of wheat lengthways, will fall through the screen, while the clean grain passes over and falls in front of the mill. By the same means the screen is kept constantly clean.

**BE SURE TO READ THE TESTIMONIALS
ON NEXT PAGE.**

They are given by persons who are well-known in their communities, and we would be glad to have the reader correspond with them.

Testimonials are not generally read and there are seldom found among the names any that are well known, but we herewith give the names of gentlemen who have given the workings of these Fans their personal attention, because of the fact that they are so radically different from any other machine of the kind, and because, these gentlemen are glad to publish to the world, that the Fans will actually do all that is claimed for them by the manufacturers.



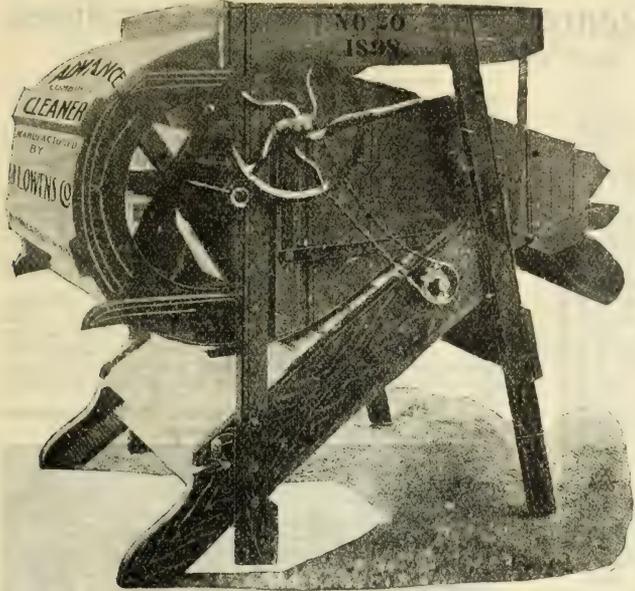
We furnish the OWEN'S AUTOMATIC Force Feeder with all Mills.

No. 3, FARM MILL, { Price \$18.50. Capacity, 30 to 40 bushels per hour. This Mill separate all fowl seeds from wheat, oats and barley, especially mustard. Will also clean flax from all fowl seeds, as well as clean all kinds of grass seed.

No. 3½, FARM MILL, { Price \$21.50. Capacity, 40 to 60 bushels per hour. Has all the merits of the No. 3, but has greater capacity and easier to operate, owing to its being made lower. It will also separate oats from wheat better than any other make of Mills.

No. 5, FARM MILL, { Price \$24.50. Capacity, 60 to 80 bushels per hour. This Mill is larger than No. 3 and requires more power.

ALL KINDS OF MACHINERY REPAIRED.



**OWEN'S
= FANNING =
MILL.**

No. 20—Side Shake.

This Mill is much larger than the others, and is used more especially for warehouse purposes. It has the slatted canvas principle of the other styles.

Capacity 80 to 100 bushels hour.

Price..... \$27.50

BELOW ARE APPENDED A FEW TESTIMONIALS FROM PERSONS USING THE OWENS FAN.

Messrs. Griffith & Turner Co.

Gentlemen—We are handling your Owen's Grain Fan No. 20, and for removing cockle and cheat from wheat we do not think they can be surpassed.

Yours very truly,
Isaac Robinson.

Chesapeake City, Md.,
Nov. 29th, 1898.

Baltimore, Nov. 1st, 1898.

Messrs. Griffith & Turner Co.

Having used your Owen's Fanning Mill this Fall for cleaning seed wheat, it gives us pleasure to state that it is a most excellent machine for that purpose, and has done for us all you claim.

Yours very truly,
Dudley & Carpenter.

Earlville, Md., Sept. 29th, 1898.

Gentlemen—I have operated and sold quite a number of the Owens Grain Fans this fall, and they have given satisfaction to all purchasers, especially for grading and cleaning seed wheat.

Wm. J. Duhamel.
Federalsburg, Md.

We have tried the Owens Fan and find it first-class for cleaning grain.

J. M. Wright.

Queen Anne, Md., Oct. 14th, 1898.

Griffith & Turner Co.

Gentlemen—The Owens Fanning Mill has more than met our expectations for cleaning seed wheat. It has no competition from the fact that the screens are kept clean automatically, thus ensuring a perfect separation at all times, which other mills fail to do.

Very truly,
Hackett & Jump.

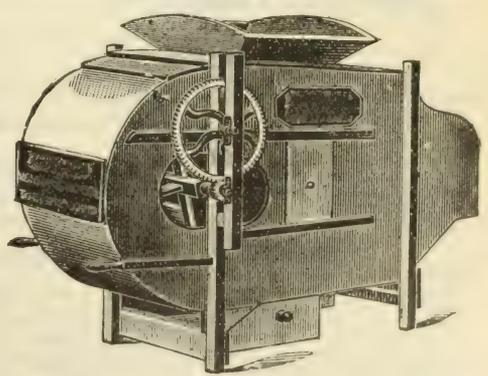
**THE
LYONS IMPROVED
GRAIN FAN.**

**Good General Purpose Mill.
Side Shake.**

Will clean from 60 to 100 bushels per hour. Made of best material and finished in a neat and tasty manner.

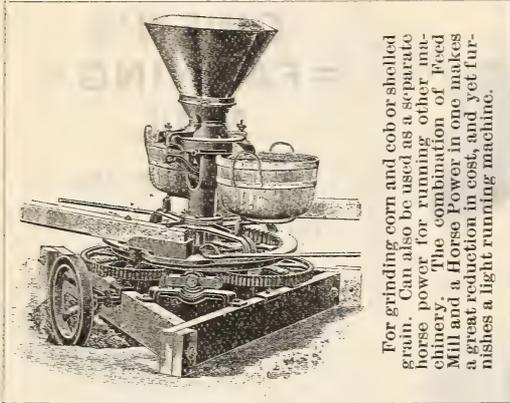
Price..... \$18.00

Special Price for Cash.



Double-Action Triple-Geared Mill and Power Combined.

BOTH PLATES REVOLVE, ONE IN OPPOSITE DIRECTION FROM THE OTHER.

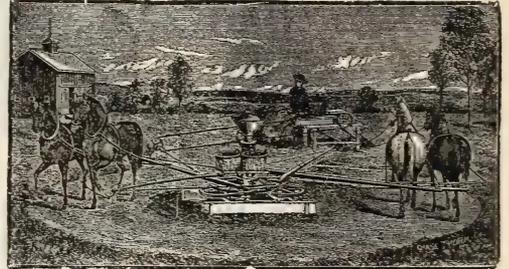


For grinding corn and cob or shelled grain. Can also be used as a separate horse power for running other machinery. The combination of Feed Mill and a Horse Power in one makes a great reduction in cost, and yet furnishes a light running machine.

The sweeps or levers are attached to a large internal geared master wheel, into the teeth of which three strong pinions mesh, and through these pinions motion is imparted to the three large gear wheels, the teeth of which engage a heavy, strong pinion on one end of the shaft, which carries one of the grinding plates; the other resting in a casting is attached to the master wheel, and makes one revolution with each round of the horses, while the other makes thirty, in a contrary direction; in consequence, we get greater speed with out increase of power and greater capacity. The utmost care is taken to insure the least possible draft.

Two levers or tongues are furnished, so two, three, or even four horses can be used. We also furnish two baskets with each mill which set on rests, as shown. A cut-off is used to change the discharge to the empty basket, avoiding the necessity of stopping the team; no loss of time or waste of feed.

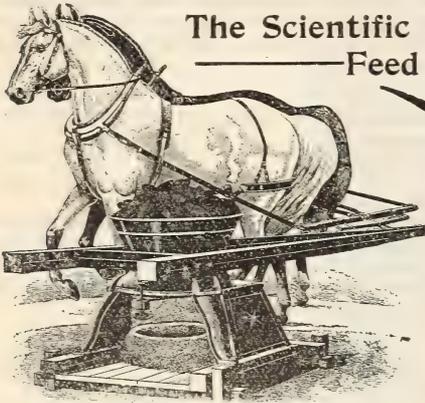
Capacity of mill on small grain, 12 to 18 bushels per hour; ear corn, 10 to 15 bushels.



Write for special descriptive catalogue.

- Double Action Mill and Power, complete, with two Levers\$65.00
 - Double Action Mill and Power, complete, with two Levers, but without Tumbling Rod Attachment 60.00
 - Single Action Mill and Power, complete, with two Levers 60.00
 - Single Action Mill and Power, complete, with two Levers, but without Tumbling Rod Attachment 55.00
- An allowance of \$5.00 for cash on any of above machines.

The Scientific Sweep — Feed Mill.



Grinds ear corn, new, dry or damp, but not with shucks on; shelled corn, alone or mixed with other grain, for chopped feed, oats, etc., and is so arranged that the interior parts of the Mill revolve with the revolutions of the team, and the power is applied directly to the grinding parts, thereby making the draft very light.

It is extremely simple, having no cog-gearing or complicated machinery to get out of order.

Our Grinding Rings or Burrs have a peculiar dress by means of which the broken pieces of cobs and whole grains are gradually reduced to the fineness desired. This breaking device, in connection with grinding rings, enables it to grind new ear corn just husked from the shock, as well as damp or wet corn.

The lower part of mill is enclosed, making a large box for feed, which is discharged all around the plates, and can be shoveled out at leisure. Weight of mill, 625 pounds.

| | |
|--|---------------------------|
| Price of Mill, complete, with Platform and one set of Plates | Retail Price. List Price. |
|\$25.00 | \$36.00 |

Capacity, 8 to 15 bushels per hour, according to quality of work.

TESTIMONIALS.

Maryland Agricultural College, Office of the President:

College Park P. O., Maryland, Nov. 25, 1896.

Griffith & Turner Co., Baltimore, Md.:

Gentlemen—I can now say that the mill has been tested, and has given us every satisfaction. I regard it as fully filling every guarantee that you gave for it.

Very truly yours,
R. W. SYLVESTER, President.

Freedom, Carroll Co., Md., Nov. 6, 1897.

Griffith & Turner Co., Baltimore, Md.:

Gentlemen—This is to certify that I have been using one of the Double-Acting Mills bought from you in the spring of 1897, in grinding grain, crushing corn on cob, etc., and am much pleased with the work it does. It is entirely satisfactory, and is all that you claimed for it when I bought it. Not only is it endorsed by myself, but also by those who have seen it at work. Such being the case, I can recommend it to anyone who has stock to feed.

Yours, very respectfully,
J. OLIVER WADLOW.

Monkton, Md., Nov. 15, 1897.

Griffith & Turner Co., Baltimore, Md.:

Gentlemen—The Double-Acting Power Mill purchased of you December, 1896, has proved a great saving to us. It is an ideal machine—a success. We have ground over three hundred barrels of cob corn on ours since we have had it—in fact, all the grain of all kinds we have fed to thirty head of cattle, six horses, and hogs, etc. It has been always ready for use by having it under shelter. Use all bad weather at home; no idle horses and men on wet days, saving time and expense hauling grain to mill and back home. The toll we have saved the past eleven months is far more than the cost of the mill. It is to us indispensable. A good investment on any dairy farm.

Respectfully, E. A. YOUNG.

Marlboro, Md., Sept. 27, 1898.

Messrs. Griffith & Turner Co.:

The Scientific Mill purchased of you two years ago is all that you claim for it. I have given it a thorough test on shelled and cob corn, also as a horse power in cutting corn fodder, and consider it a very fine farm mill. I am yours,

Very truly, H. T. WARD.

The Scientific Corn and Cob Mills.

STYLE H. No. 1.

Has Double Breakers, Partition Hopper, Pin Breaker and Safety Bottom. It grinds ear corn without shucks, shelled corn, oats, rye, barley, cheat screenings, or any and all kinds of small grain, separately, or any two or more, mixed, for feed.

DIMENSIONS AND WEIGHT.—3 feet 10 inches long; 2 feet 8 inches wide, and 3 feet 7 inches high. Weighs 508 pounds. Weight of fly wheel, 40 pounds.

SHAFT.—11-4 inches in diameter; cold rolled steel.

GRINDING PLATES.—10 inches in diameter. These plates are unlike those in the other mills, and run only in one direction—to the right. Can furnish left hand, if desired. Will furnish an extra set free in this style of mill, but in no other, as all others are reversible. Extra plates, per set, **\$2.00**

POWER.—4 to 8-horse to sweep power, or 4 to 6-horse steam power.

PULLEY.—Furnish an 8-inch diameter, 6 1-2 inch face pulley, unless special size is ordered, which can be furnished without extra charge.

SPEED.—800 to 1,000 revolutions per minute for horses; 1,000 to 1,200 for steam.

CAPACITY.—Ear corn, with shucks off, 8 to 18 bushels. If corn is new or wet, the work can be done, but not so fast; shelled corn, 8 to 20 bushels per hour; all kinds of small grains separately, or corn and oats or other grains mixed, 6 to 15 bushels per hour.

Price of this mill, complete, with extra set of plates, **\$60.00**

SIZE OF SHAFT.—4 feet 9 inches long by 13-4 inches in diameter; cold rolled steel.

POWER REQUIRED.—10 to 15-horse steam power.

SPEED.—900 to 1,000 revolutions per minute.

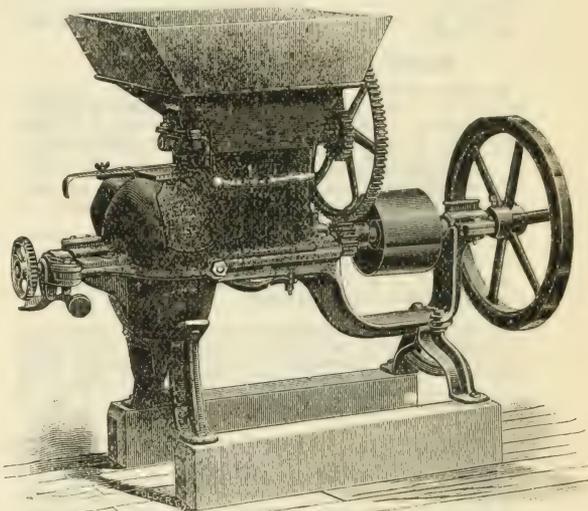
PULLEYS.—Unless otherwise ordered, we put on this mill a pulley 10 inches in diameter, 8 1-2 inch face, but can furnish any size up to and including 14 inches in diameter, 8 1-2 inch face, without extra charge.

CAPACITY.—Ear corn, with shucks on, 15 to 25 bushels per hour; with shucks off, 20 to 50 bushels per hour.

If corn is new, wet or frozen, the work can be done equally as well, but not so fast. Shelled corn, 20 to 65 bushels per hour. All other small grains, separately or mixed, 20 to 60 bushels per hour.

Price of N, No. 1 Mill, complete, on cars here, **\$80.00**

Write for Mill Catalogue. Prices subject to special discount.



STYLE L. No. 1.

Has Double Breakers, with partition Hopper, Pin Breaker and Safety Bottom. It grinds ear corn with or without shucks on, shelled corn, oats, rye, barley, cheat screenings, or any kind of small grain separately, or any two or more mixed, for feed.

DIMENSIONS AND WEIGHT.—4 feet 2 inches long, 2 feet 3 inches wide, and 3 feet 2 inches high. Weight of mill, 560 pounds; weight of fly wheel, 55 pounds.

SHAFT.—11-2 inch; cold rolled steel.

GRINDING PLATES.—12 inches in diameter, of extremely hard metal, and very durable. Are reversible and self-sharpening, having double the capacity of non-reversible plates. Price of extra plates, **\$4.00**

POWER.—8 to 12 horses to sweep power; 6 to 10 horse steam power.

PULLEY.—8 inches in diameter, 6 1-2 inch face, but can furnish larger, if desired, without extra charge.

SPEED.—1,000 to 1,200 revolutions per minute for steam power; 800 to 1,000 revolutions per minute for horse power.

CAPACITY.—Ear corn with shucks on, 10 to 20 bushels per hour; with shucks off, 15 to 30 bushels.

If corn is new, wet or frozen, the work can be done equally as well, but not so fast. Shelled corn, 25 to 40 bushels per hour. All other small grains separately, or corn and oats or other grains mixed, 15 to 30 bushels per hour.

Price, \$65.00

Write for Mill Catalogue. Prices on Power Mills subject to special discount.

TESTIMONIALS.

Below find a few of the many testimonials we have received from persons using these mills:

Baltimore, Md., September 26, 1898.

Messrs. Griffith & Turner Co.:

Gentlemen—It gives me pleasure to state that I have erected several scientific mills, and in every instance they have given entire satisfaction.

Yours very truly,

JOHN B. ADT.

332 to 342 Holliday St.

Lisbon, Md., October 3, 1898.

Messrs. Griffith & Turner Co.:

Gentlemen—The 20-inch Feed Grinder that I bought of you last winter has given the very best satisfaction, and will grind all the feed I can get to and from it. I would not have a larger mill, because I could not handle feed fast enough for it. I consider it the best FEED GRINDER I ever saw, and would recommend it to all needing a Feed Grinder.

H. C. SELBY.

Hood's Mills, Md., October 18, 1898.

Messrs. Griffith & Turner Co.:

Gentlemen—I have been using the Focs Grinding Mill for nearly a year, and am very well pleased with it. Can do my grinding in the time it ordinarily takes me to go to grist mill in the neighborhood. I consider it a time as well as money saver.

J. C. MCKINNEY.

STYLE N. No. 1.

This is similar in general make-up to the style L, the only difference being in dimensions, power and capacity.

DIMENSIONS AND WEIGHT.—4 feet 9 inches long, 2 feet 5 inches wide, and 3 feet 5 inches high. Weight of mill, 625 pounds; weight of fly wheel, 100 pounds.

Price of extra grinding plates, per set, **\$5.00**

THE WALDRON & SPROUT VERTICAL FRENCH BURR MILL.

These mills are heavy, strong and durable, and expensive to build, there being a large amount of machine work upon them. It will be seen by comparing the description and weight of these mills with the price list, that the prices are very low for the class of work. No purchaser would be willing to have them built in a cheaper manner, or any of the improvements left off.

The accompanying illustration represents the Mill and an Improved Crusher combined. The Crusher is driven from the mill spindle by a 3-inch belt. The crushed corn is carried to the mill hopper by an elevator, saving extra handling. This makes a very handy combined mill, the crusher requiring very little power, and need only be run while grinding ear corn, and can be stopped or started at any time while the mill is in motion. The most successful combined Burr stone mill ever offered to the trade.

Annexed cut shows mill and crusher combined on all of the sizes except the special 12-inch mill, for light power, that being constructed slightly different.

Write for special prices on Mill and Crusher combined.

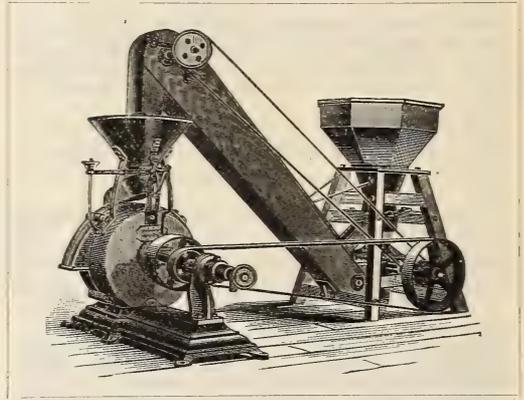
Special 12 inch Mill for Light Power.

DIMENSIONS.—Extreme length, 36 inches; width, 19 inches; height, 34 inches; base occupies floor space, 17x17 inches; driving pulley, 8 inches diameter, 5 inches face. Speed, 800 to 1,200 revolutions per minute. The burrs in this mill are each 12 inches in diameter, carefully tested and tried. The runner is attached to the spindle by a divided tapered sleeve and nut. The grinding capacity is from 5 to 15 bushels an hour.

It is furnished with ball bearings, and the shells are babbeted, turned and bored. It is well built and designed for farm use. Weight, 400 pounds.

Retail, f. o. b. factory, \$40.50; f. o. b. Baltimore, \$43.30. List, \$75.00.

12-INCH MILL.—Dimensions: Length over all, 56 inches; width, 22 inches; height, 31 inches; pulley, 8 inches in diameter, 5 inch face, covered with leather; weight, 430 pounds; should be run 1,000 to 1,200 revolutions per minute; capacity, 5 to 15 bushels per hour, according to fineness of meal or



feed and power used; 6 to 8-horse power engine.

Retail, f. o. b. factory, \$54.00; f. o. b. Baltimore, \$57.75. List, \$100.00.

16-INCH MILL.—Length over all, 64 inches; width, 24 inches; height, 36 inches; floor space, 22x45 inches; pulley, 10 inches in diameter; 6-inch face, covered with leather; weight, 800 pounds; should be run 1,000 revolutions per minute; grinding capacity, 10 to 30 bushels per hour; 8 to 12-horse power. **Retail, f. o. b. factory, \$86.40; f. o. b. Baltimore, \$92.50. List, \$160.00.**

20-INCH MILL.—Requires 10 to 15-horse power engine; grinding capacity, 15 to 60 bushels per hour. **Retail, f. o. b. factory, \$108.00; f. o. b. Baltimore, \$115.00. List, \$200.00.**

24-INCH MILL.—Requires 15 to 25-horse power engine; grinding capacity, 15 to 75 bushels per hour. **Retail, f. o. b. factory, \$148.00; f. o. b. Baltimore, \$158.75. List, \$275.00.**

30-INCH MILL.—Requires 20 to 30-horse power engine; grinding capacity, 25 to 100 bushels per hour. **Retail, f. o. b. factory, \$204.75; f. o. b. Baltimore, \$218.75. List, \$325.00.**

IMPROVED CRUSHERS—Two Sizes—for above.

No. 1 will crush 20 to 35 bushels of corn on the ear per hour; weight, 350 pounds; pulley, 16 inches diameter, 4-inch face; should be run 300 to 400 revolutions per minute; 2-horse power. **Retail, f. o. b. factory, \$24.00; f. o. b. Baltimore, \$25.75. List, \$40.00.**

No. 2 will crush 60 to 90 bushels of corn on the ear

per hour; weight, 500 pounds; pulley, 20 inches diameter, 4-inch face; should be run 200 to 300 revolutions per minute; 3-horse power. **Retail, f. o. b. factory, \$36.00; f. o. b. Baltimore, \$38.50; List, \$60.00.**

Elevator attachments to connect mill and crusher, **Retail, \$6.00. List, \$10.00.**



BUCKEYE STEAM POWER CORN AND COB MILL.

This mill is all iron and steel; the weather has no effect on it. It is adapted to steam power; 6 to 10-horse power will run it.

It will grind corn and cob, shelled corn and oats (mixed or separate), screenings, wheat, barley, rye, oil cake, peas and beans. With a 6-horse power engine it will grind from 15 to 20 bushels of chop, and with a 10-horse power it will grind from 30 to 40 bushels of chop per hour from dry grain.

We furnish two sets of burrs with the Buckeye Mills, and a new set only costs \$1.50, and can be put in a few minutes.

Price of Mill with two sets of Burrs, \$50.00; Less \$5.00 for Cash.

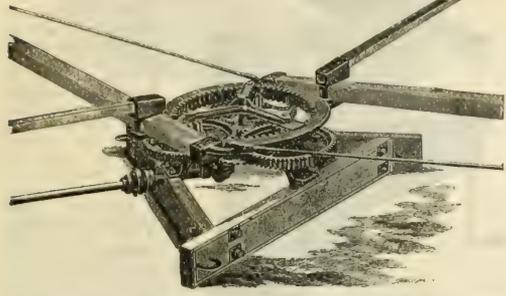
DIRECTIONS FOR OPERATING THE BUCKEYE STEAM POWER MILL.

SPEED OF MILL.—Run the pulley shaft 600 to 800 revolutions per minute for corn in the ear; 800 to 900 revolutions per minute on shelled or small grain.

HOW TO USE BURRS.—The burrs in the mill are for ear corn and doing ordinary grinding. For fine grinding use the burrs that are sent with the mill as extras.

Scientific Triple-Geared Two-Horse Sweep Powers.

This power can be used with one or two horses. The tumbling rod has a speed of 60 revolutions to one round of horse, and by the use of Power Jack speed can be increased. Can be used with wood saws, feed cutters and other machinery requiring



such power. The gears are fitted with great care, so that they can work with least possible friction, and every casting is made extra heavy so as to withstand all reasonable strain. We furnish with this power one lever, one 12-foot tumbling rod, two knuckles and one rod rest.

List..... \$45.00
Retail..... 35.00

We also have a heavier power, similar to the above, which is strong enough for four horses, yet can be easily operated with two. The gearing is the same as used on our Scientific Double Action Grinding Mills.

Price, with two levers, tumbling rod, knuckles, and rod rest:

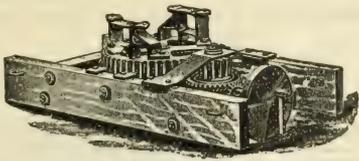
List \$55.00
Retail 40.00

Our eight-horse power is made with special reference to the requirements of Grinding Mills. The castings and timbers are all heavy and strong, carefully put together, so as to insure the least possible friction. It will run so light that two horses can readily work it where no more power is required, and it is sufficiently strong for any work requiring eight horses. The tumbling rod makes 45 revolutions to one round of horses.

Price, with four levers, two lengths of tumbling rod, knuckles, etc.:

List \$85.00
Retail 56.00

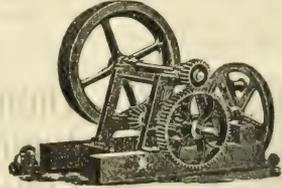
PUMPING POWER.



A demand for a pumping power, with slow speed, especially adapted to pumping water, has led us to add this to our list of machinery. It has a Wrist Pin with Stub Pitman, and a Balance Crank with three Strokes, viz., 4, 6 and 8 inch. Speed, 9 revolutions to one round of horse. We furnish with power 2 levers, 2 lead sticks, 1 tumbling rod, 1 ground block and 1 knuckle. Weight, 600 pounds.

Price \$40.00

PUMPING JACK.



This cut represents the Improved Pump Jack to be operated in connection with the 2-horse power, as shown at top of page. This Jack has two sets of gears—one to regulate the stroke of the pump and the other, a high gear, having a heavy fly wheel to carry the Pitman over the centre, thereby causing all parts to work smoothly. A first-class outfit for deep wells. Weight, 225 pounds.

Price \$25.00

WELL FORCE PUMP PACKING HEAD.

(To be attached to Pumping Power.)

These heads are made of iron, with brass stuffing boxes and 5-8 in. brass cased rod on the upper end of rod, for connecting to windmill or power, and on lower end a well rod coupling 7-16 in. We can have these rods fitted with 1-2 in. rod couplings if desired, and if specially ordered, can furnish both ends with rod couplings. In ordering, always state size of suction and discharge, as well as well rods and length of stroke.

| | Pipe. | Well Rod. | 8 in. Stroke. List. | 8 in. Stroke. Retail. | 10 in. Stroke. List. | 10 in. Stroke. Retail. | 12 in. Stroke. List. | 12 in. Stroke. Retail. |
|------------|---------------|-----------|---------------------|-----------------------|----------------------|------------------------|----------------------|------------------------|
| Figure 513 | 11-4 in. | 7-16 in. | 4.00 | 3.20 | 5.00 | 4.00 | 6.00 | 4.00 |
| | 11-2 or 2 in. | 7-16 in. | 5.00 | 4.00 | 6.25 | 5.00 | 7.50 | 6.00 |
| Figure 511 | 11-4 in. | 7-16 in. | 4.00 | 3.20 | 5.00 | 4.00 | 6.00 | 4.00 |
| | 11-2 or 2 in. | 7-16 in. | 5.00 | 4.00 | 6.25 | 5.00 | 7.50 | 6.00 |



Fig. 511.

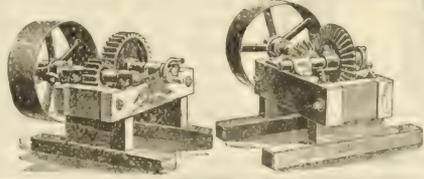


Fig. 513.

SPUR AND BEVEL GEAR JACKS.

This machine is intended to increase speed and transmit power by belt. The spur gear transmits the motion at a right angle with the tumbling rod, and the Bevel Gear transmits it in a line with tumbling rod. For 2-horse power pulley revolves 21-4 times to one revolution of tumbling rod.

Retail.....\$7.00 List.....\$10.00
For 4-horse power, 2 3/4 times.
Retail.....\$12.60 List.....\$18.00



ALL KINDS OF REPAIRS ON HAND.

The Banner Root Cutter.

BUILT IN THREE 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 and tear the feed.

The No. 20—For Hand Use.

Has a capacity of 30 to 50 bushels per hour.

List Price \$12 00
 Our Retail Price... 9 00
 Extra Knives, per set..... 1 00

The No. 15—Hand and Power Cutter.

Same size as No. 20. Is arranged with Band Wheel for light power, such as wind mill, etc. Capacity by power, 1 to 1½ bushels per minute.

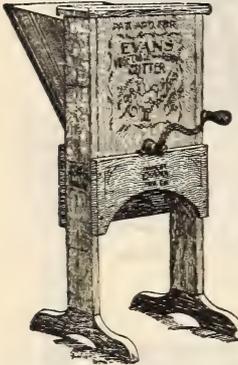
List Price..... \$14 00
 Our Retail Price..... 10 00

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. Capacity by power, 2 to 3 bushels per minute.

Our Retail Price..... \$15 00



Thompson's Junior Banner Cutter. No. 7

SUITABLE FOR A FLOCK OF 50 to 1000 FOWLS.

This cutter is adapted especially for poultry men 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.

Price..... \$5.00

REGULAR 3-KNIFE KRAUT CUTTER, with Sliding Box, 8x26 inches. Price, \$1 25.

New England Vegetable Cutter

IMPROVED



The great advantage of feeding cattle and sheep during the winter months partly on Vegetables, has become generally recognized.

The mechanism of this machine is simple, consisting of a Steel Shaft, on which are mounted a series of Rings, with Prongs projecting from them, as shown in illustration. These Prongs run between a set of Knives, fastened to frame of cutter, by which means the roots are torn and sliced into fine pieces. Two gradings of sizes are obtained by the two

sets of knives. A large Crank and a heavy Balance Wheel are furnished, making it easy of operation, and it can be worked by a boy.

The Frame and Trough are thoroughly made, and Bolts are used in fastening together.

The finish is smooth and attractive, frame in natural wood, varnished, trough painted green, iron work black. Price..... \$6.75

Granite State Feed Cooker,

FOR POULTRY MEN, STOCK RAISERS AND DAIRYMEN.



The Boiler is made of galvanized steel.

The Furnace—door, frame, smoke-pipe, plate, hearth, legs and grates are made from best quality cast iron. The steel linings prevent the direct heat of the fire from warping or burning the body of furnace. The heating capacity of fire box is increased, and less wood is needed to produce the required amount of heat under the boiler than would

be necessary if the sides were of a single thickness of cast or sheet iron. There is no reason why the furnace should not last a lifetime. The linings are bolted in, and can easily be taken out and replaced by new at a slight cost.

"By Cooking, you double the bulk and value of the food."

THOUSANDS SOLD—NO COMPLAINTS.

| Retail Prices, | 25 gals. | 30 gals. | 40 gals. | 50 gals. | 60 gals. | 75 gals. | 100 gals. | List Prices | 25 gals. | 30 gals. | 40 gals. | 50 gals. | 60 gals. | 75 gals. | 100 gals. |
|----------------|----------|----------|----------|----------|----------|----------|-----------|-------------|----------|----------|----------|----------|----------|----------|-----------|
| \$12.50 | \$13.75 | \$16.25 | \$17.50 | \$18.75 | \$20.00 | \$22.50 | \$15.00 | \$16.50 | \$19.50 | \$21.00 | \$2.50 | \$24.00 | \$27.00 | | |

Special Prices for CASH.

EMPIRE STATE COOKER, similar in construction to the above but lighter and cheaper. Special prices on application.

Electric Corrugated Boiler and Feed Cooker,

PATENTS PENDING.



This is conceded to be the best and most practical Farmer's Boiler ever offered to the trade. The kettles are made of finest grades of Cast Iron. They are mounted on a very heavy Corrugated Steel Jacket, which provides for expansion and contraction of the metal so that it will not buckle or break when exposed to a high degree of heat. A Heavy Steel Band extends around the Jacket at both top and bottom, making it an exceedingly durable furnace.

This boiler is designed to set on the ground or brick foundation. A Cast Iron Flue is fastened to the inside of the Jacket which retards the draught and causes the heat to be retained, and applied to the whole exterior surface of the kettle, before passing out, making it very economical in the consumption of fuel. Cast iron fixtures for hard or soft coal furnished when required.

MADE IN THREE SIZES.

| No. | Size. | Usual Rating. | Shipping Weight. | List. | Retail. |
|-----|-------|---------------|------------------|----------------------------------|-----------|
| 4 | 1 bbl | 40 gals. | 175 lbs. | \$14.50 | \$11.00 |
| 5 | 1½ " | 60 " | 200 " | 16.00 | 12.75 |
| 6 | 2 " | 70 " | 225 " | 18.00 | 15.00 |
| | | | | Cast Iron Fire Pot for Coal..... | 3 50 3.00 |

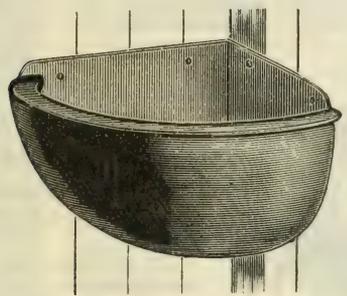
Weaver's Patented Rivetless Steel Stock Trough.



THE ACME OF PERFECTION.

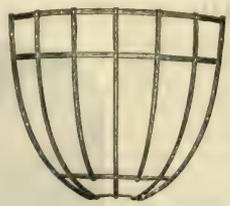
The only Steel Trough constructed without the use of rivets. Will not crack or burst on account of freezing. This Trough is made of No. 12 gauge steel, curved in semi-circular form, with ends of cast iron fitted in each end of steel, and held in place by steel bands instead of rivets. These bands are shrunk around the end edges of steel, binding it firmly to the flange on the end, thereby making a perfectly water-tight joint.

- No. 4—18 in. wide at top, 9 in. deep, per foot....\$.90
- No. 5—20 in. wide at top, 11 in. deep, per foot.... 1.00



Corner Mangers.

- No. 3—16 in. long, 16 in. wide, 10 in. deep, weight 30 lbs.\$1.00
- No. 4—15 in. long, 15 in. wide, 8 in. deep, weight 22 lbs.90



Wrought Hay Racks.

Far superior to cast iron racks, as frequently used.
Price.....\$1.50



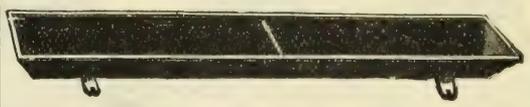
Nos. 1, 2 and 3.

Cast 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 inches long, 3 1/4 inches wide at top, 1 1/4 inches deep20c.
- No. 1—20 inches long, 4 inches wide at top, 1 1/2 inches deep40c.
- No. 2—23 inches long, 7 inches wide at top, 3 inches deep50c.

Cast Iron Hog Troughs.



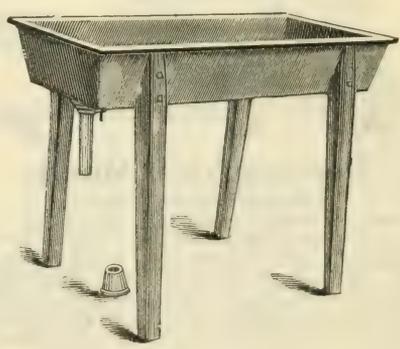
No person raising hogs can afford to do without these troughs. No danger in winter, when frozen full of ice, for them to burst.

The price is within the reach of all. 12 inches wide at top, 2 inches wide at bottom and 6 inches deep. Made in length from 2 feet up to 8 feet, every 6 inches. Weight, per foot, 13 lbs.

Price.....40c. per foot.

Square Top Pump Troughs.

PAINTED.



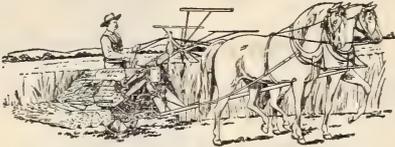
Style B. With Legs and Strainer.

| Size. | Depth. | Price each. |
|--------------|----------|-------------|
| 14x20 inches | 6 inches | \$2 35 |
| 14x24 | 6 | 2 55 |
| 15x27 | 6 | 2 85 |
| 16x24 | 6 | 2 65 |
| 16x30 | 6 | 3 10 |
| 18x24 | 6 | 2 95 |
| 18x30 | 6 | 3 35 |
| 18x36 | 6 | 3 85 |
| 18x42 | 6 | 4 85 |
| 20x30 | 6 | 3 85 |
| 20x42 | 6 | 5 10 |
| 22x42 | 6 | 5 10 |
| 22x48 | 6 | 6 30 |

These prices subject to 30 per cent. discount.

DEERING HARVESTING MACHINES

WITH ROLLER AND BALL BEARINGS.



Deering Ideal Binder.

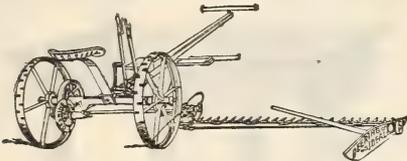
We wish to announce the light draft, noiseless running Deering Ideal Binder, fitted with Roller and Ball Bearings in drive wheel axle, in main gear shaft, and in crank shaft. The ease with which this machine pulls is most surprising. It has the Deering jointed platform, the Deering one-lever reel, the Deering binder attachment, and the Deering balance double butt adjuster, all of which contribute to make it the most perfect and the most efficient. It is a staunch little machine, full of grit, and as tough as a knot.



Deering Improved Steel Binder

with Roller and Ball Bearings.

Has Jointed Platform, One-lever Reel, Twine-saving Knotter, Broad Elevators and Binder Deck. This machine is known and appreciated wherever grain is grown.



Deering Ideal Mower

with Roller and Ball Bearings.

Draws one-third lighter than any other mower made. Serrated Ledger-plates hold up stubborn grasses and compel them to be cut. The only mower that can be driven at a slow walk in heavy grass, and the only one that can be started in any crop without backing. Perfect Foot-lift and Lifting Spring. All widths of cut—3 1-2 and 4 feet, One-horse; 4 1-2 and 5 feet, Ideal; 6 and 7 feet, Ideal Giant.

Deering Ideal Reaper

with Roller Bearings.

Is justly popular everywhere because of its extremely light draft, its high rake stand, its facilities for transportation, its durability and the perfection of its cutting apparatus.

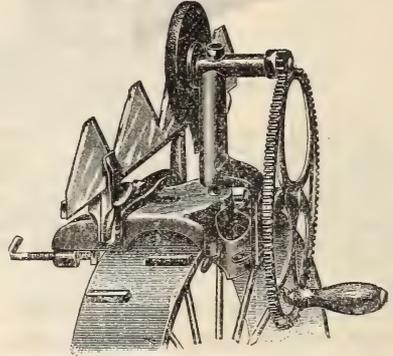
Deering Corn Harvester

with Ball Bearings

Has demonstrated that the horizontal principle for binding corn is the only correct one. This machine has been improved, and is ready to continue the victories of the past two seasons.

Send for Catalogue, "Forty Harvest Seasons."

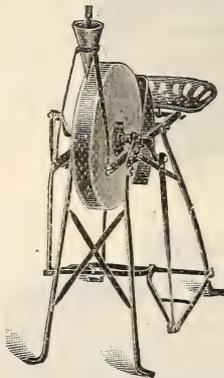
Farmer's Favorite Knife and Sickle Grinder.



Simplicity of adjustment.

The knife holder can be adjusted to any angle for any knife. The upright post holding the emery wheel can be adjusted to any angle and raised or lowered to the desired height. No skill required; is not complicated, saves time and labor, because after proper angle has been obtained, requires but few turns of wheel to sharpen or resharpen knife.

Price..... **\$3.50**



Schofield Steel Frame Bi-Treadle Grindstone.

This is, without doubt: one of the handiest implements on the farm. No necessity to call a boy to turn the stone, the work being done with both feet, as its name indicates. It has also a self-watering attachment. The people will have it; consequently it is just the thing for jobbers and dealers to handle.

Price, Stone and Frame complete..... **\$5.25**
Price, Frame and Hanger, without stone.. **4.00**

Binder Twine.

Believing that the price of Binder Twine will advance very materially, the coming season, we have laid in a large stock, and wishing to give the purchaser all the advantages to be gotten out of present prices, request that you send in your orders **now**, no matter how small, so they can be booked. Last year, consumers did not look ahead and the consequence was when they ordered the price was very high, much higher than at the opening of the season. It is much to your interest to think seriously of this matter and let your orders come along at once. Our stock consists of the best twine of every kind, at lowest prices, which we can supply in any quantity desired, consisting of Sisal Standard, Standard Manila, Manila and Pure Manila. Prices on application.



WE ARE GENERAL AGENTS FOR

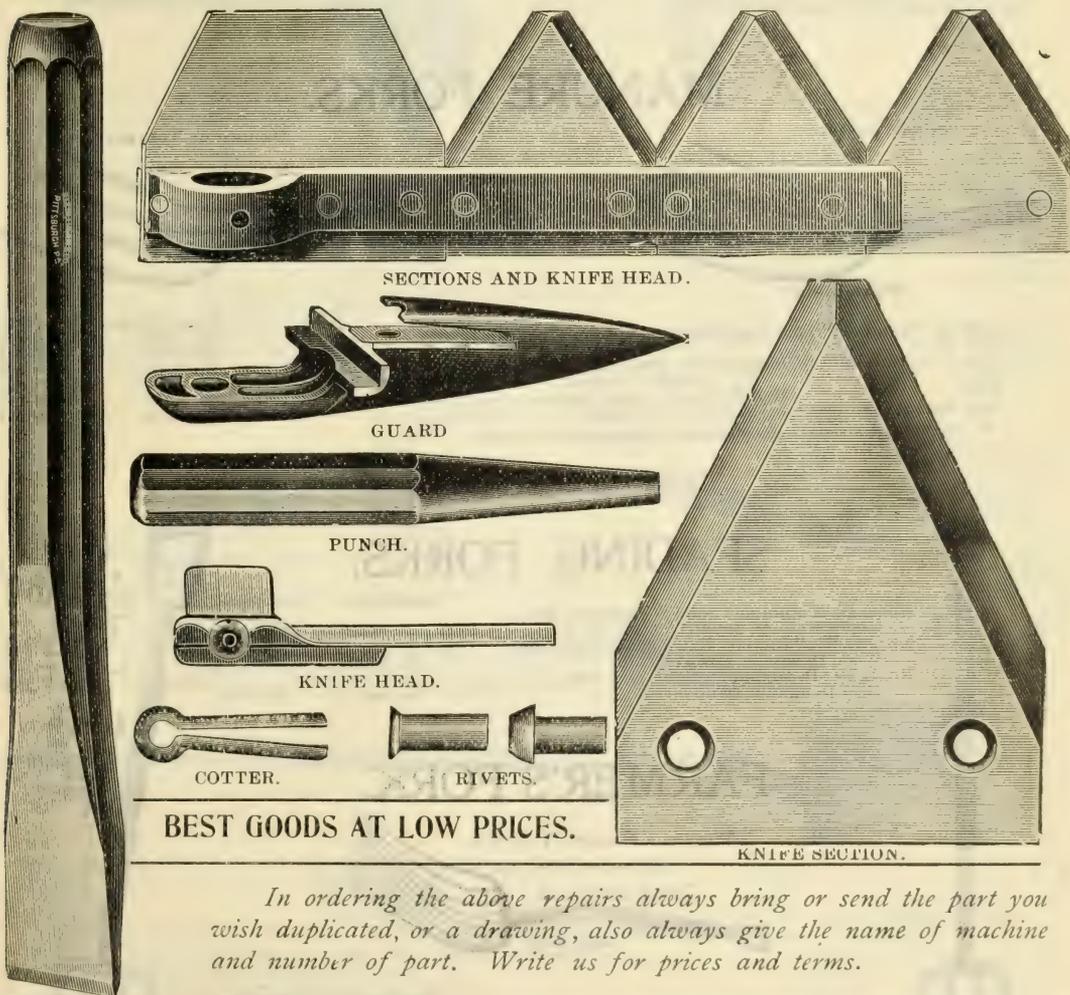
KNIVES, SECTION GUARDS, RIVETS, KNIFE HEADS, COTTERS, STEEL PUNCHES, COLD CHISELS, ETC.

ALSO FURNISH THRESHER TEETH, WITH OR WITHOUT NUTS FOR ALL LEADING THRESHERS.

It is frequently the case that farmers are located where there is no stock of sections, etc., carried. We are headquarters for a full line of these goods, enumerated above and if you will write us for prices, can doubtless supply you with what you need at very low prices.

As a rule the above are not ordered until needed for immediate use, now if you will only take up the matter with us early in the season we are confident we can save you both money and annoyance. This not only holds good for this class of goods, but Grain Drill Points and Tubes and other extras.

Look over your Plows, Cultivators, Grain Drills, Mowers, Binders, Feed Cutters, etc., make out your list and let us have it early.



SECTIONS AND KNIFE HEAD.

GUARD

PUNCH.

KNIFE HEAD.

COTTER.

RIVETS.

BEST GOODS AT LOW PRICES.

KNIFE SECTION.

In ordering the above repairs always bring or send the part you wish duplicated, or a drawing, also always give the name of machine and number of part. Write us for prices and terms.

LINK CHAIN BELTING

—for use on Mowers, Reapers, Binders, Corn and Wheat Drills, Corn Shellers, Straw Stackers, Feed Cutters, Traction Engines, etc. Other attachments will be furnished at special prices.

COMPETENT MECHANICS TO REPAIR MACHINERY.



HOES

This is the Finest Hoe Made.
PRICE 50c. Each
 Cuts Easy
 Sells Easy
 Try It.



Silver Polish
Trowel Temper.



The "Crescent" Cultivator Hoe.

Two Hoes on One Handle.

| | Retail Price. | List Price. |
|---|----------------|----------------|
| No. G. 02, Solid Steel Garden Socket Hoe, XXX Handle..... | 40c. each..... | \$14 75 dozen. |
| " G. 2, " Shank Hoe, XXX Handle..... | 30c. each..... | 13 25 dozen. |
| " 26 Riveted Garden Socket Hoe..... | 25c. each..... | 9 50 dozen. |
| " 10 Solid Steel Ladies Shank Hoe, XX Handle..... | 25c. each..... | 10 00 dozen. |
| " P. 7, Heavy Handled Planter Shank Hoe, 7 inch blade..... | 40c. each..... | 18 00 dozen. |
| " P. 7½, " " " 7½ " "..... | 45c. each..... | 19 50 dozen. |
| " P. 8, " " " 8 " "..... | 50c. each..... | 20 25 dozen. |
| " 64 ½, " Sprouting Hoe, 4½ inch blade, special temper..... | 60c. each..... | |
| " 75, " Mattock Hoe, special temper..... | 60c. each..... | |
| " 66 Crescent Cultivator Hoe, 6 inch..... | 50c. each..... | |
| " 2 Two Point, Solid Steel Weed Hoe..... | 25c. each..... | 10 00 dozen. |
| " R. 1 Sharp Point, Steel Blade Weed Hoe..... | 20c. each..... | 8 00 dozen. |

We carry also many other sizes and shapes of Hoes.

The Victor 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**



IN SHOVELS AND SPADES.

We carry a large line, including Solid Cast Steel, Socket, Welded and Riveted styles.



| | |
|---|--------|
| No. 2—Long Handle, Round Point, Griffith Steel Warranted Shovel, retail..... | \$1 00 |
| " 2— " " " Rowlands Steel " "..... | 75 |
| " 2— " " " Steel Socket Shovels, " "..... | 75 |
| " 2— " " " Riveted Shovels, " "..... | 50 |
| Scoop Shovels of all sizes always on hand. Wood and Wire Potato Scoops—different styles in stock. | |
| No. 2—D. Handle, Square Point, Griffith Warranted Steel Shovel, retail..... | \$1 00 |
| " 2—D. Handle, Solid Socket, Steel Shovel, " "..... | 75 |
| Many other sizes and styles always on hand. | |



| | |
|---|--------|
| No. 2—D. Handle, Square Point, Griffith Warranted Steel Spade..... | \$1 00 |
| No. 2—D. Handle, Square Point, Hills or Rowlands Steel Spade..... | 75 |
| No. 2—Long Handle, Square Point, Hills or Rowlands Steel Spade..... | 75 |

Wooden Neck Yokes.

Ironed, Complete.

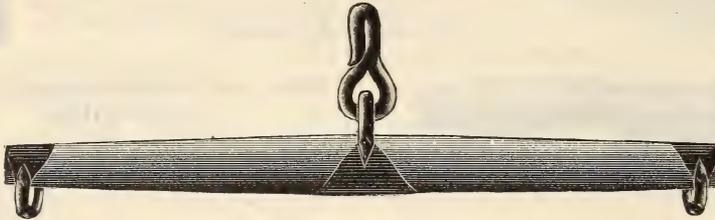
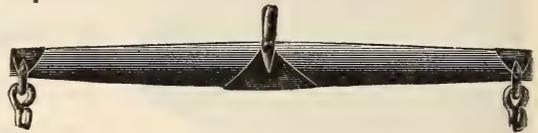


Price..... 75 cents

Single, Double and Triple Trees.

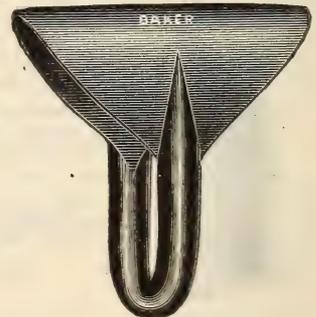
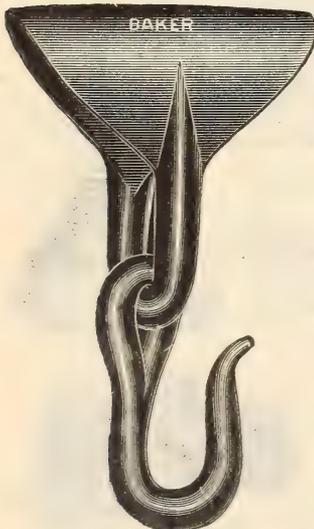
Ironed, Complete.

| | |
|------------------------------------|-----|
| 26 inch Southern Single Trees..... | 25c |
| 28 " Extra Nailed "..... | 40c |
| 30 " Heavy Single Tree..... | 50c |
| 32 " " "..... | 60c |
| 34 " " "..... | 60c |
| 36 " " "..... | 75c |



| | |
|-------------------------------------|-------|
| 36 inch Southern Double Trees..... | \$ 75 |
| 36 " Heavy "..... | 1 00 |
| 40 " " "..... | 1 10 |
| Extra Heavy Triple Trees..... | 2 00 |
| Oval, Lap or Open Rings, 10c. each. | |
| Chain Repair Links, 30c. per doz. | |

Sets of Welded Clips.



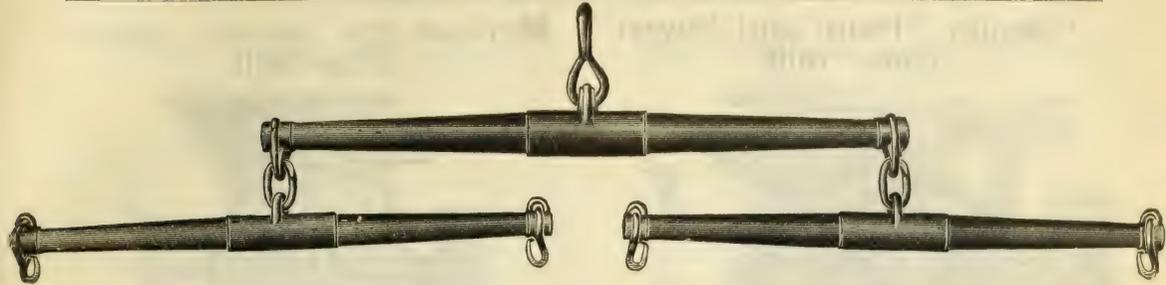
For Single Trees.

| | Price Per Set. | Doz. Sets. |
|--|----------------|------------|
| No. 26, One Centre 1/2 inch Clip, welded, and two 3/4 inch End Clips, welded, with 5-16 inch Hooks as used on our 28 inch Single Trees..... | \$0 20 | \$2 00 |
| No. 30, One Centre 9-16 inch Clip, welded, and two 7-16 inch End Clips, welded, with 3/4 inch Hooks as used on our 30 and 32 inch Heavy Single Trees.. | 25 | 2 50 |
| No. 34, One Centre 5/8 inch Clip, welded, and two 7-16 inch End Clips, welded, with 3/4 inch Hooks as used on our 34 and 36 inch Heavy Single Trees..... | 30 | 3 00 |

For Double Trees.

| | | |
|--|----|------|
| No. 36, Southern, one 5/8 inch Centre Clip and Hook, welded, with 1/2 inch Hook and two 1/2 inch End Clips, welded, as used on our 36 inch Southern Double Trees..... | 25 | 2 50 |
| Nos. 36 and 40, Penna., one 3/4 inch Centre Clip and Hook, welded, with 3/4 inch Hook and two 9-16 inch End Clips welded, as used on our 36 and 40 inch Heavy Penna., Double Trees.... | 40 | 4 00 |

ALL KINDS OF MACHINERY REPAIRED.



Tubular Steel Whiffletrees.

These goods are no longer an experiment, they have stood, for the past five years, the surest practical tests. They are tapered from centre to end and flattened, giving great strength. Practically speaking, indestructible. We can furnish this pattern for heavy contractors work with or without staple centre of evener; evener has hole in centre instead of hook. Made in 3 sizes. Also furnish same for use on wagons, hole in centre, but without staple in centre of evener. Made in 4 sizes.

Plow Doubletrees in Sets, complete—Pattern No. 26.

| | | | | |
|--------------------------------|----------------------|-----------------------|--------------------|--------|
| No. 0.—For light plowing. | Capacity, 2,000 lbs. | Length, 33x28 inches. | Price per set..... | \$2.50 |
| " 1.—For ordinary plowing | " 3,000 " | " 36x30 " | " " | 3.00 |
| " 2.—For extra heavy plowing " | " 4,000 " | " 36x31½ " | " " | 3.25 |

In ordering, please state length of bar, also length of singletrees and if rings or cock eye hooks are required for trace attachment.

Contractors' Doubletrees (Chicago Pattern).

| | | | |
|-----------------------------|-------------------------------|------------------------------------|-----------------------|
| No. 1.—Capacity, 5,000 lbs. | Evener, 40 to 48 inches long. | Singletrees, 34 to 36 inches long. | Price per set, \$6.00 |
| " 2.— " 8,000 " | " 50 to 52 " | " 36 " " | " " 6.50 |
| " 3.— " 10,000 " | " 50 to 54 " | " 36 to 38 " | " " 7.00 |

In ordering, please state length of evener, also whether rings or cock eye hooks are required for trace attachment.

Farm Wagon Doubletrees—Pattern No. 24.

| | | | |
|-----------------------------|-------------------------------|------------------------------------|-----------------------|
| No. 0.—Capacity, 1,500 lbs. | Evener, 40 to 42 inches long. | Singletrees, 30 to 32 inches long. | Price per set, \$3.50 |
| " 1.— " 2,500 " | " 44 to 46 " | " 32 to 33 " | " " 4.00 |
| " 2.— " 4,000 " | " 46 to 48 " | " 33 to 34 " | " " 4.50 |
| " 3.— " 7,000 " | " 48 to 50 " | " 34 to 36 " | " " 5.00 |



Southern Plow Singletrees. Pattern No. 32.

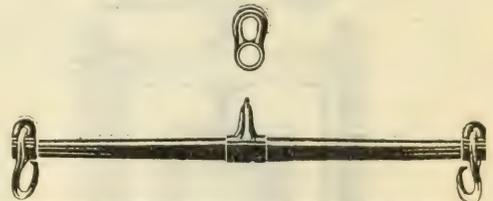
No. 1.....28x30 inches long.
Price each.....\$0.70

SHOWING EYE OF CENTRE CLIP.

Southern Plow Singletrees. Pattern No. 33.

No. 0.—20, 22, 24 and 26 inches long.
Price each.....\$0.50

These plow Singletrees are made especially for Southern trade. They are equipped with cock eye hooks pulling from back of singletree, also with drop down hook.



Neck Yokes—Pattern No. 27.

This cut represents our No. 2 Neck Yoke, which is very suitable for Farm Wagons and similar work.

No. 2 Neck Yoke, 38 inches long.
Price each.....\$1.25



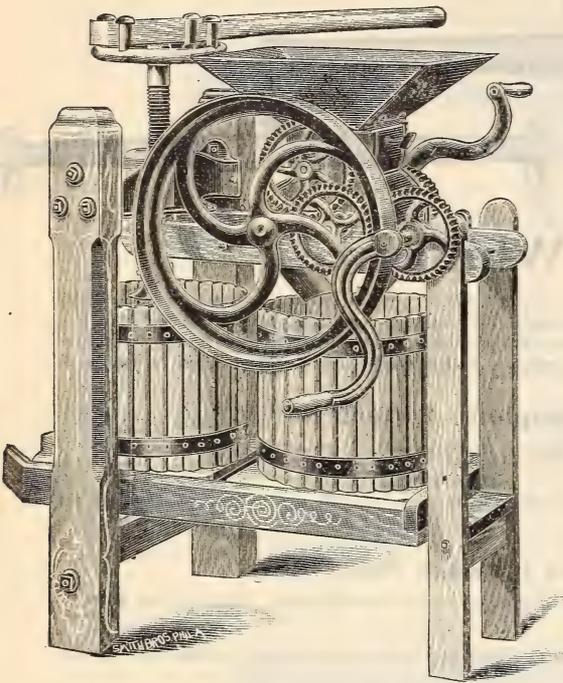
Neck Yokes—Pattern No. 35.

This cut represents our No. 1 Neck Yoke, which is very suitable for Reaper, Mower and Grain Drill use.

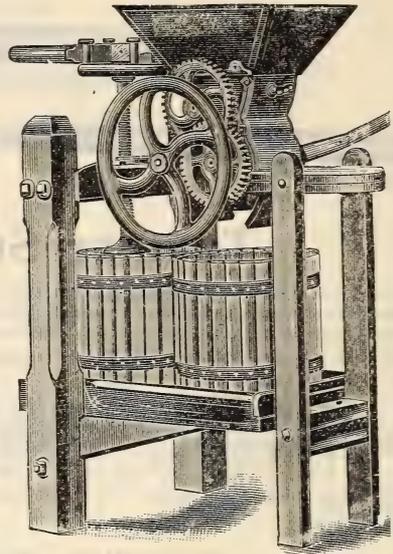
No. 1 Neck Yoke, 36 inches long.
Price each.....\$1.10.



“Senior” Hand and Power Cider Mill.



Medium and “Junior” Hand Cider Mill.



These mills are almost identical with the “Senior,” except they are smaller, and have only one handle. In the preparation of the pomace for cider, they are the same in all their parts.

Price:

| | |
|--------------|---------|
| Medium | \$17.00 |
| Junior | 15.00 |

This is our largest sized mill, adapted for hand or power, with a detachable handle on either side. It is first-class in every particular, unsurpassed in quality, durability and capacity, and made of the best material in both wood and iron. The grinders are adjustable, and will grind both small and large fruit equally well. 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. These mills produce more cider to a given quantity of apples than any other mill on the market.

Price..... \$20 00

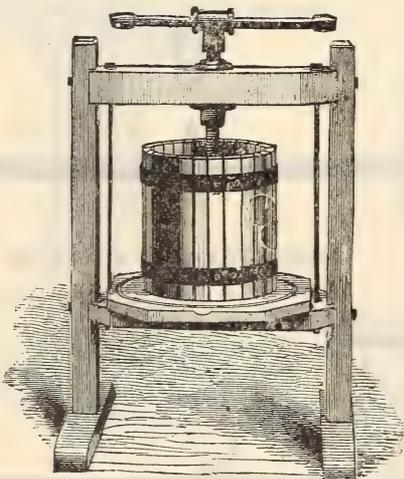
The “Baby” Wine and Cider Mill.



This is a very handy little mill for making a small quantity of cider, five or ten gallons at a time. All of the juice of the apples can be gotten out, but not so rapidly. 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..... | 9 00 |

Berry Press.

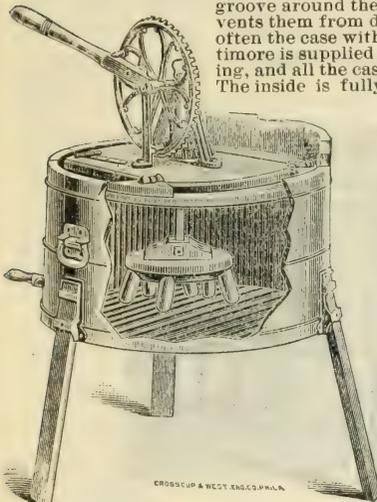


| | |
|---------------------------|--------|
| Berry Presses, No. 1..... | \$4 00 |
| Berry Presses, No. 2..... | 5.00 |
| Berry Presses, No. 3..... | 6.75 |

The Baltimore Cedar Washer.

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, 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. Another very valuable feature about this machine is the ROUND ELECTRIC WELDED HOOPS of extra heavy galvanized wire, fitted in a

groove around the machine, which prevents them from dropping off, as is so often the case with flat hoops. 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 corrugated feature of this machine is different from others in this: The bottom and sides are corrugated; in others the corrugations run 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.



CROSS-CUT & BEST-EDGE, PA. PA.

NOTE THIS IMPROVEMENT: 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. This whole arrangement can be lowered or raised by the operator without removing the top, 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.

Price..... **\$4.00**

The Vandergrift Rotary Washer.

One of the lightest running and most easy working washers ever placed on the market.

Any woman can operate it with ease.

It closes tight, preventing the escape of steam and retaining the heat in the washer.

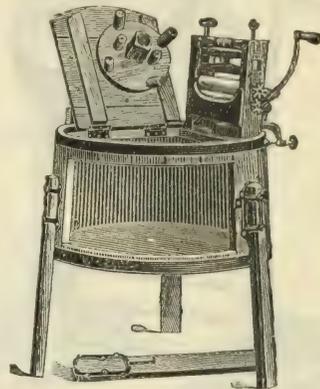
The Vandergrift Rotary is so arranged that by turning the large balance wheel in one direction the dasher inside the machine reverses or rotates in opposite directions, thereby giving the best possible results. The large balance or fly wheel (weighing 17 lbs.) is a great help in causing the Washer to turn easily, and can be quickly removed when desired.



Price..... **\$8.00**

Improved Pan-American Washer.

It is supplied with the latest improved gearing.

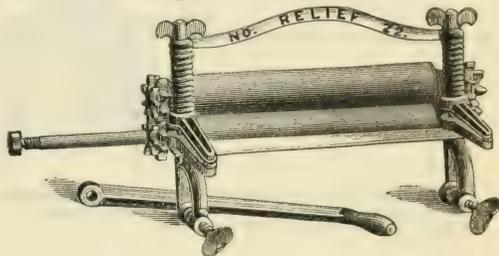


The cut shows the interior of the Washer. The machine is constructed of clear pine, and is strong, nicely finished.

Without wringer **\$3.50**
Cheaper grade **3.00**

Relief Wringer.

Iron Frame. The frame is made entirely of Wrought and Malleable Iron.



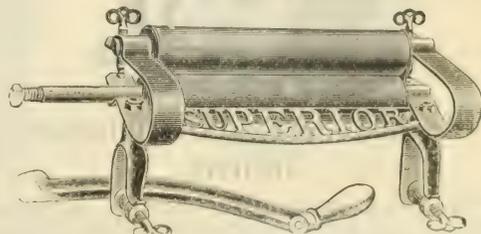
By the use of the thumb nuts and spiral springs in this Wringer, the pressure can be adjusted quickly for either heavy or light work; therefore the rolls are never overstrained, and will wear much longer than in the ordinary iron frame Wringer.

With Cog Wheels. Five sizes. Packed four and six in a case.

No. 22.—Small Family. Size of Rolls, 10x13-4 in.

Price, **\$3.00**. Rolls, each, **\$1.25**.

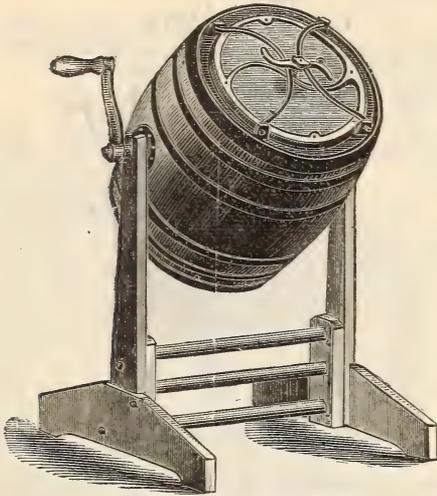
Superior Wringer.



Also carry a stock of the following well-known Iron Frame Wringers:

| | SIZE OF ROLLS. | |
|------------------|-----------------|--------|
| Superior..... | 10 x 13 1/4 in. | \$2.50 |
| Superior..... | 12 x 13 1/4 in. | 3.00 |
| Daisy..... | 10 x 13 1/4 in. | 2.00 |
| Star..... | 10 x 13 1/4 in. | 1.50 |
| Extra Rolls..... | | 1.00 |

SUPERIOR DAIRY GOODS.



The Favorite Churn.

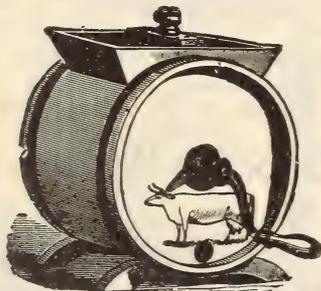
Patented July 5, 1891.

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 bails are fastened to the iron ring, where they need to be fastened.

| No. | 5 gallon, to churn | 2 gallons, | List price. | Retail price. |
|-----|--------------------|------------|-------------|---------------|
| 1 | 10 | 5 | \$ 8 00 | \$ 5 00 |
| 2 | 15 | 7 | 8 50 | 5 25 |
| 3 | 20 | 10 | 9 00 | 5 50 |
| 4 | 25 | 12 | 10 00 | 6 25 |
| 5 | 35 | 17 | 12 00 | 7 50 |
| 6 | 60 | 30 | 16 00 | 10 00 |
| 7 | 75 | 37 | 26 00 | 16 00 |
| 8 | 90 | 45 | 30 00 | 18 50 |
| | | | 35 00 | 22 00 |

We furnish Pulleys for power. Prices extra, according to size desired. Directions for using in each Churn. Write for 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. | 2 3/4 gallons | Retail price. | List price. |
|-----|---------------|---------------|-------------|
| 1 | 2 3/4 | \$2 00 | \$2 50 |
| 2 | 4 | 2 50 | 3 00 |
| 3 | 7 | 3 00 | 3 50 |
| 4 | 10 1/2 | 3 50 | 4 00 |
| 5 | 15 | 4 00 | 4 50 |

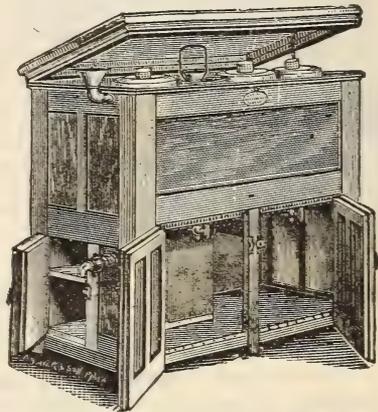
Spain's Patent Churn.

Made of White Cedar and bound with Galvanized Iron Hoops. A special form of dasher arranged to produce the best effect. A large opening through which the dasher can be removed, admitting of thorough cleansing and ventilation.

NOTE.—The churning capacity as given below represents half the full capacity of churns.

| No. | Retail without stand. | Retail with stand. | List without stand. | List with stand. |
|----------|-----------------------|--------------------|---------------------|------------------|
| 1, 9 qts | \$4 25 | \$4 75 | \$5 20 | \$5 90 |
| 2, 15 " | 4 65 | 5 40 | 5 60 | 6 60 |
| 3, 20 " | 5 00 | 5 80 | 6 00 | 7 10 |
| 4, 24 " | 5 75 | 6 65 | 6 80 | 8 00 |
| 5, 32 " | 6 50 | 7 50 | 7 60 | 8 90 |
| 6, 44 " | 7 50 | 8 60 | 9 20 | 10 60 |

Have on hand a few Standard Churns for sale low, write for prices.



Stoddard Creamery.

With or without special refrigerator, thorough in construction, simple in operation, accurate in its working.

Family Class. Each can hold 2 1/2 gallons.

| No. | No. of Cans. | No. of Cows. | Plain Creamery. | With Special Refrigerator. |
|-----|--------------|--------------|-----------------|----------------------------|
| 2 | 2 | 2 | \$20 00 | |
| 3 | 3 | 3 to 4 | 26 00 | \$31 00 |
| 4 | 4 | 5 to 6 | 32 00 | 37 00 |

Dairy Class. Each can hold 5 gallons.

| No. | No. of Cans. | No. of Cows. | Plain Creamery. | With Special Refrigerator. |
|-----|--------------|--------------|-----------------|----------------------------|
| 2 | 2 | 5 to 6 | \$25 00 | |
| 3 | 3 | 7 to 9 | 31 00 | \$36 00 |
| 4 | 4 | 10 to 12 | 37 00 | 42 00 |
| 5 | 5 | 13 to 15 | 43 00 | 48 00 |
| 6 | 6 | 15 to 18 | 49 00 | 54 00 |
| 8 | 8 | 20 to 24 | 61 00 | 66 00 |
| 10 | 10 | 25 to 30 | 73 00 | 78 00 |
| 12 | 12 | 30 to 36 | 85 00 | 90 00 |

Subject to special discount.

No. 2 Family Class and No. 2 Dairy Class are not made with the separate refrigerator compartment unless so ordered.

The above prices do not include partitions, nor more than one water faucet. If partitions or extra water faucet is wanted, they will be furnished at \$1.00 each.

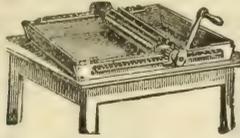
Floating Glass Thermometers.

Price, 25 cents each.

Eight inch Dairy Thermometer stands boiling water. Price 50 cents each.



REED'S BUTTER WORKER.



This machine will work a batch of butter in from three to five minutes, according to the condition of the butter, working out the buttermilk, and thoroughly mixing in the salt, doing the work far quicker and better than it can be done by hand. It consists of a tray and a roller with paddles, which is turned by a crank and traverses from end to end of tray. It acts on the butter on precisely the same principle as a ladle in the hands of a person, but with perfect uniformity and without injuring the grain.

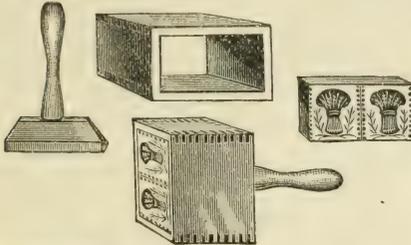
| Inside Measurement. | | Capacity. | Weight. | List price. | Retail price. |
|---------------------|-----------------|-----------|---------|-------------|---------------|
| No. 1, | 23x36x2 1/2 in. | 60 lbs. | 45 lbs. | \$10 00 | \$8 00 |
| No. 2, | 20x36x2 1/2 in. | 30 " | 29 " | 8 00 | 6 40 |
| No. 3, | 17x27x2 1/2 in. | 20 " | 25 " | 7 00 | 5 60 |
| No. 4, | 14x23x2 1/2 in. | 10 " | 20 " | 6 00 | 4 80 |

Three pounds can be worked in any of the above machines, as well as a larger quantity. In buying a machine you should choose a size that will work the largest quantity that you will be likely to want to work at a time.

Larger sizes, specially designed for mixing, reworking and coloring, or for creamery use.

| Inside Measurement. | Capacity. | Weight. | Price. |
|---------------------|-------------|---------|---------|
| No. 0 | 23x37x3 in. | 75 lbs. | \$12 50 |
| No. 00 | 23x55x3 in. | 112 " | 15 00 |
| No. 00 | 23x72x3 in. | 150 " | 18 00 |

When desired, we can send legs along with any size machine, for \$4.00 extra, which can be set up after arrival at destination.



BUTTER PRINTS AND MOULDS.—All sizes and styles. Round, 15 and 35 cents; square, 60 cents; square and extra hand-made, \$1.00, \$1.25, \$1.50 and \$2.50 each.

MORE'S PYRAMIDAL MILK STRAINER. with Rest, \$1.50; without Rest, \$1.35.

WELLS, RICHARDSON & CO.'S BUTTER COLOR.—Will not color the Buttermilk. Price, 25 cents, 50 cents, and \$1.00 per bottle.

PARCHMENT BUTTER PAPER.—Is air proof, tasteless and odorless. Does not stick to the butter, and prevents shrinkage. Is purer, neater, cleaner and cheaper than cloth. Price, 20 cents per pound, or 6 pounds for \$1.00.

Reed'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 or Monogram.. | \$1.50 |

La Fayette Butter Printer.

This is also self-gauging, intended for use in creameries, but more especially for reprinting. Very simple and handy. Either pound or half pound, with table.....\$15.00
Either pound or half pound, without table..... 10.00

Butter Boxes.



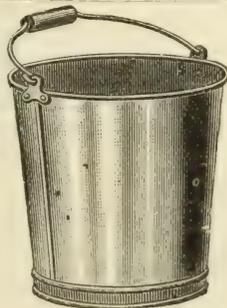
Are made of well-seasoned lumber, iron-bound at the edges and capped at the corners. Malleable detachable hinges and corner plates combined. The trays for the butter are let down into the box, one upon another, and may be put in or lifted out with the butter in them. A movable ice box is placed in the center; when this is not used, a strip provided for the purpose, may be placed in the bottom of each tray to fill up the space. The four sides of the trays are surrounded by a non-conducting air space. Malleable iron chest handles, well secured to the sides of the box. These boxes are specially suited for square or oblong prints.

Capacity 20 lb. Prints, \$3 75
" 30 " " 4 25
" 40 " " 4 75
" 56 " " 5 00
" 80 " " 5 50
" 96 " " 5 75

Capacity 120 lb. Prints, \$6 70
" 36 1/2 lb. " 4 50
" 64 " " 5 25
" 80 " " 5 50
" 100 " " 6 00
" 140 " " 7 00



The improved Milk Can, made of the very best material. Holds five gallons. Price.... **\$2 00**



Milk Pail.

Made of best XXXX Tin.

| | |
|--------------------|-------------|
| 3 gallons..... | \$ 45 each. |
| 3 1/2 gallons..... | 50 each. |

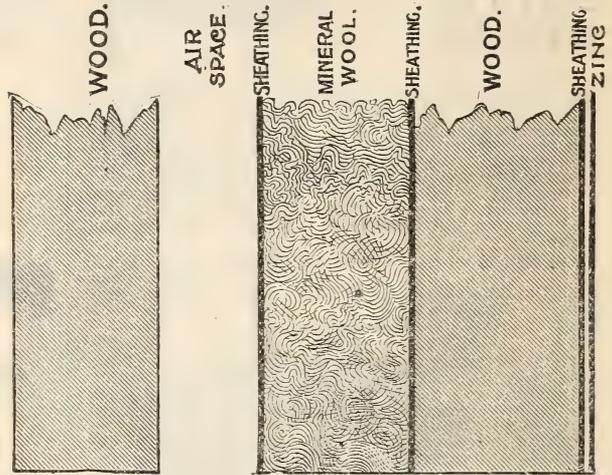
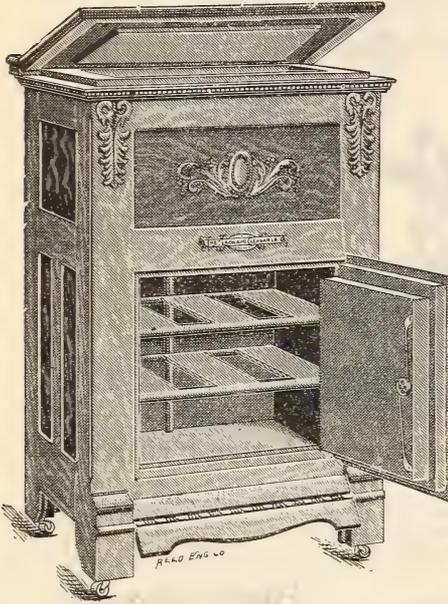
Butter Ladle. Price.....15 and 25 cents each.
Butter Paddle. Price.....10 cents each.



Rice's Calf Weaners.

Also prevents cows from sucking themselves.
No. 1, for Calves, 30 cents; by mail, 35 cents.
No. 2, for Heifers, 50 cents; by mail, 56 cents.
No. 3, for Cows, 75 cents; by mail, 85 cents.

THE LEONARD CLEANABLE REFRIGERATORS.



**FULL SIZE SECTIONAL VIEW
Of One Wall of a Leonard Cleanable Refrigerator.**

INSULATION.

The insulation, or non-conducting supremacy of the Leonard Castings is unequalled, there being no less than eight separate and distinct walls separating the contents from the outside air, in order as above shown.

AIR SPACE AND MINERAL WOOL.

AIR is the best distributor of heat, and also the greatest barrier to its transmission, according as it has or has not freedom to circulate. To prevent the conveying of heat to the inside of our Refrigerators, the air space is made as nearly airtight as possible. This air space also prevents moisture from within from reaching the outside case and swelling it out of shape.

MINERAL WOOL is a vitreous substance having the appearance of wool. It is made from the slag of blast furnaces or other similar material by

throwing a jet of steam against a small stream of liquid glass. In this manner it is so expanded that it contains 92 per cent. of air and only 8 per cent. of the original substance. This air is confined and held in position, consequently it cannot carry heat and makes the best known insulating material. It is also indestructible, and will not mould or smell. The sheathing used in these Refrigerators is the Bird Patent Water Proof Odorless Sheathing. It is called charcoal sheathing by some manufacturers, and is sometimes the only material used for insulation, and only a single layer at that. By reference to the above diagram you will see that there are EIGHT walls for insulation.

One of the most important features in the construction of Refrigerators is the keeping of dampness from the wood work. The manufacturers of these Refrigerators are the sole owners of the only patent which accomplishes this object, and as such work is necessarily concealed from view, your only way to be sure of a durable Refrigerator, and one that is free from smell or mould, is to buy the LEONARD CLEANABLE.

Be sure to write for full descriptive catalogue, FREE.

THE FOLLOWING SIZES ARE MINERAL WOOL FILLED.

| SINGLE DOOR. CARVED. | | | DOUBLE DOOR. CARVED. | | |
|-----------------------------|---------|---------|-----------------------------|---------|---------|
| | List. | Retail. | | List. | Retail. |
| No. 270—27x18x42 | \$22.00 | \$11.00 | No. 273—33x20x46 | \$33.00 | \$13.50 |
| No. 271—31x20x44 | 27.50 | 13.75 | No. 274—36x21x48 | 37.50 | 18.75 |
| No. 272—32x24x47 | 33.75 | 16.87 | No. 275—40x24x50 | 45.00 | 22.50 |
| Same, without Water Cooler. | | | Same, without Water Cooler. | | |
| No. 70—27x18x42 | \$18.50 | \$ 9.25 | No. 73—33x20x46 | \$28.25 | \$14.25 |
| No. 71—31x20x44 | 23.50 | 11.75 | No. 74—36x21x48 | 32.50 | 16.25 |
| No. 72—32x24x47 | 29.25 | 14.33 | No. 75—40x24x50 | 40.00 | 20.00 |

THE FOLLOWING ARE CHARCOAL FILLED.

| SINGLE DOOR. EMBOSSED. | | | DOUBLE DOOR. EMBOSSED. | | |
|-----------------------------|---------|---------|-----------------------------|---------|---------|
| | List. | Retail. | | List. | Retail. |
| No. 210—25x17x40 | \$17.50 | \$ 8.75 | | | |
| No. 211—27x18x42 | 21.00 | 10.50 | No. 213—33x24x48 | \$31.00 | \$18.75 |
| No. 212—31x20x44 | 27.00 | 13.50 | | | |
| Same, without Water Cooler. | | | Same, without Water Cooler. | | |
| No. 10—25x17x40 | \$14.00 | \$ 7.00 | No. 13—33x24x48 | \$26.50 | \$16.00 |
| No. 11—27x18x42 | 17.50 | 8.75 | | | |
| No. 12—31x20x44 | 23.00 | 11.50 | | | |

Walls of the following are Hollow and Insulated with Charcoal Sheathing.

| With Water Cooler. | | |
|--------------------|---------|---------|
| | List. | Retail. |
| No. 249—24x16x38 | \$14.50 | \$ 7.25 |
| No. 250—27x18x44 | 18.50 | 9.25 |

ICE CHESTS.

| | List. | Retail. |
|-----------------|---------|---------|
| No. 39—26x18x25 | \$ 8.50 | \$ 4.25 |
| No. 40—30x18x25 | 10.00 | 5.00 |
| No. 41—34x21x27 | 12.50 | 6.00 |
| No. 42—36x22x31 | 16.00 | 9.75 |
| No. 43—41x25x34 | 19.00 | 10.50 |
| No. 44—44x29x36 | 25.00 | 12.50 |

SPECIAL CATALOGUE OF THE ABOVE ON APPLICATION.

WAUKEGAN BARBED WIRE.

The points of superiority of this wire are *lightness*, weighing *less to the rod* than any other; *great strength*, which is accomplished by using a half round wire which clasp the main strand as if *welded* to the same, while the flat projecting points receiving a half turn before they are sharpened include the strength of full-sized round wires.

Waukegan Two Point Thick-Set.

Barbs 3 inches apart. Measuring 18 to 20 feet to 1 lb. Affording the purchaser 10 3-10 rods or 170 feet more per 1,000 lbs. than any other Barbed Wire made. Prices on application.



Galvanized Iowa Steel Barbed Fencing Wire, Lyman Four Point. Main Strands No. 12 1-2 Gauge, Steel Wire.

Special attention is called to the quality of this wire. It is bright, clean and smooth. Does not crack nor scale off. Is thoroughly covered, and will stand any legitimate test. It is made from the very best material (steel) for the purpose, and is strictly first-class in every respect. Prices on application.

Smooth Steel Wire Galvanized and Annealed.

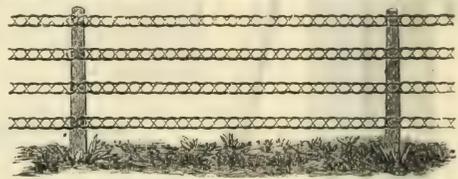
This wire is made from STEEL of the best quality. It is carefully drawn in long lengths, and put up in neat, well-bound coils of various weights.

We carry Nos. 9, 10 11, 12, 13 and 14 Gauge, Galvanized, and Nos. 11, 12 and 14 Gauge, Annealed. Prices on application.



Plain Ribbon Wire Fencing Without Barbs.

Galvanized Flat Twisted Fencing, 1/2 in. wide. Put up on 50 and 100 pound spools. The great strength obtained by the size of the wire and method of construction makes it capable of wonderful resistance. The fence can be plainly seen at a distance, and with the elasticity imparted by the twist no sagging can occur if constructed properly. Special square-top staples and clasps for splicing furnished at lowest prices. Prices on application.

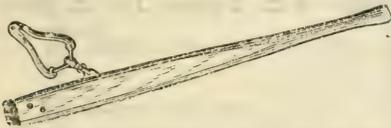


Truss and Cable Fence Wire.

It is composed of six galvanized spring steel wires of superior quality and is about 1 1/2 in. wide. Its strength is equal to the combined tensile strength of all the wires, and its construction is such as to allow for the expansion and contraction of heat and cold without stretching. Prices on application.

The Townsend Wire Stretcher

The person stretching the wire can nail it to the post without assistance. The only true principle for a Wire Stretcher. Price.....**75 cents.**



Plain Twisted Two Strand Wire Fencing.

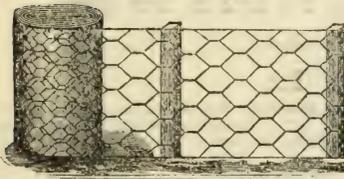
Light, strong, durable, cheap. Used largely for lawns and home enclosures. Prices on application.

Poultry Netting. For Enclosing Poultry Yards.

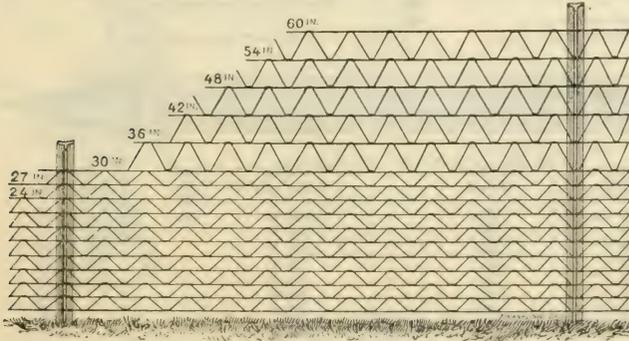
The Wire we offer is all No. 19 and 20 double twist, 2 in. mesh, thoroughly galvanized after weaving. Sold in bales of 150 running feet.

PRICES TWO INCH MESH.

| No. 19. | in. wide. | sq. ft. | per bale | No. 20. | in. wide. | sq. ft. | per bale. |
|---------|-----------|---------|----------|---------|-----------|---------|-----------|
| " | 12 | 150 | \$ 70 | " | 12 | 150 | \$ 63 |
| " | 18 | 225 | 1 10 | " | 18 | 225 | 1 00 |
| " | 24 | 300 | 1 35 | " | 24 | 300 | 1 23 |
| " | 36 | 450 | 2 00 | " | 36 | 450 | 1 80 |
| " | 48 | 600 | 2 65 | " | 48 | 600 | 2 39 |
| " | 60 | 750 | 3 15 | " | 60 | 750 | 2 85 |
| " | 72 | 900 | 3 90 | " | 72 | 900 | 2 50 |



Price 3/4 cent per sq. ft. in less than bale lots. Staples for fastening, 10 cents per pound.



Hartman "Stockade" Woven Wire Fence.

Strong, Durable, Cheap, Ornamental.

Convenient, because easy to handle, quickly put up. Made of heavy galvanized wire. As seen by the cut the wires in the lower portion are much closer than is the case in the upper part, consequently it acts as an effectual break against chickens and small animals, and to larger animals it presents such a rigid appearance that they will not attempt to jump it. The "Y" steel posts are used in the erection of this fence. (See cut.)

Price, Without Steel Posts:
 4 feet high, per rod.....60c.
 5 feet high, per rod.....73c.
 Steel Posts, each.....50c.
 Price subject to change without notice.

Fig. 606.

**Barnes Manufacturing Co.
Lift and Force Pump.**

Fig. 606.

Wrought Iron Set Length, Lift Pump; Anti-freezing; open top for wells of ordinary depth.

This meets the demand for a pump that can be sold at a lower price than the ordinary sizes. It answers the purpose of a heavier pump. Set length means pipe and cylinder attached to Standard.

(For definition of Standard, see below.)

Full 6-inch stroke. Lifts water 32 feet. Works nicely in wells not over 50 feet. When water is below the limit the cylinder should be dropped or placed at a proper distance. Pipe connections under spout preventing damage by frost.

| No. | Diam. Cyl. | Sec. Fitted for Pipe. | Stroke. | List. | Retail. |
|--------|------------|-----------------------|---------|--------|---------|
| 4..... | 3 ins. | 1¼ ins. | 6 ins. | \$8.00 | \$3.50 |

**IMPROVED ANTI-FREEZING WELL
FORCE PUMP.**

Fig. 632.

This has air chamber in standard. Has a drop tube in air chamber to insure a steady stream. All the standards in these different numbers are of the same weight, the difference being the cylinder. By lowering the cylinder it can be used in wells 100 feet deep. A special favorite for driven wells.

| No. | Diam Cyl. | Sec. Fitted for Pipe. | Stroke. | List. | Retail. |
|--------|-----------|-----------------------|---------|---------|---------|
| 4..... | 3 ins. | 1¼ ins. | 6 ins. | \$12.50 | \$6.00 |

If wanted with Cock Spout, add \$1.25 to retail.

Pump Standards.

Standard means pump without pipe and cylinder. The part of pump above the platform. They are used by those having pipe and cylinder on hand to replace a broken set length standard.

Fig. 607 represents Lift Pump Standard, used in the set length pump (Fig. 606), shown above, in wells up to 50 feet deep.

Price Fig. 607, No. 2, 6 in. stroke, fitted for 1¼ in. pipe list, \$4.25, Retail, \$2.50.

Price Fig. 607, No. 3, 6 in. stroke, Fitted for 1¼ in. pipe, list, \$4.50, retail, \$2.65.

Price Fig. 607, No. 4, 6 in. stroke, fitted for 1¼ in. pipe, list, \$4.75, retail, \$2.90.

Fig. 635 represents Force Pump Standard used in set length pump (Fig. 632, shown above), in wells up to 100 feet deep.

Price Fig. 635 complete, fitted for 1¼ in. pipe, 6 in. stroke, list, \$9.00, retail \$5.00.



Fig. 150.

Fig. 150 is the Improved Closed Top Pitcher Pump for inside kitchen use, where a substantial Cistern Pump is wanted. Arm on bearer is high, giving plunger full stroke. Thread on base is cut iron pipe thread, so in case of breakage a 1½ inch by 1¼ inch reducing coupling can be used. All parts are numbered.

Price Fig. 150, No. 1, size cylinder 2½ inches, fitted for 1 inch pipe, stroke 4 inches, list Iron, \$4.25, retail, Iron, \$1.10.

Price Fig. 150, No. 2, size cylinder 3 inches, fitted for 1¼ inch pipe, stroke 4 inches, list, iron, \$4.75, retail, iron, \$1.25.

Price Fig. 150, No. 3, size cylinder 3½ inches, fitted for 1¼ inch pipe, stroke 4 inches, list, iron, \$5.25, retail, iron, \$1.40.

Barnes Manufacturing Co.'s Lift and Force Pump.—Cont'd.

Fig. 341.

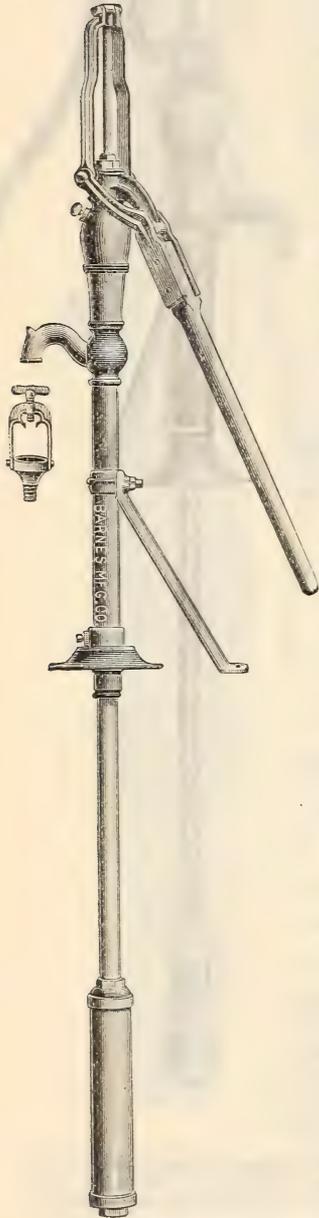


Fig. 341.

"Richland" Force Pumps supplied with iron weight on end of wood handle. We show two styles, 6 and 10-inch stroke, with adjustable base and brace. Suitable for any kind of well, 3 inches in diameter and larger, and up to 200 feet deep. Discharges steady stream. Specially designed for farmers who require large quantities of water for stock. When necessary to repair cylinder or valves same may be drawn up through the top of air chamber. Each pump supplied with the new improved malleable hose connection, and is fitted with wood rod connection. **WHEN ORDERING ALWAYS STATE SIZE OF PIPE AND LENGTH OF STROKE, AND WHETHER FOR HAND OR WINDMILL USE.**

6-inch Stroke.

| No. | Fitted for Pipe. | Size Cyl. | List Iron Cyl. | List Brass Cyl. | Retail Iron Cyl. | Retail Brass Cyl. |
|--------|------------------|-----------|----------------|-----------------|------------------|-------------------|
| 2..... | 1½ in. | 2½ x 10 | \$11.25 | \$14.50 | \$6.25 | \$8.00 |
| 4..... | 1½ in. | 3 x 10 | 11.75 | 15.00 | 6.50 | 8.25 |

10-inch Stroke.

| | | | | | | |
|--------|--------|---------|---------|---------|--------|--------|
| 2..... | 1½ in. | 2½ x 10 | \$12.25 | \$15.50 | \$6.75 | \$8.50 |
| 4..... | 1½ in. | 3 x 16 | 12.75 | 16.00 | 7.00 | 8.75 |

Can be furnished with windmill head by adding 50c. to retail and \$1.00 to list.

Fig. 325.

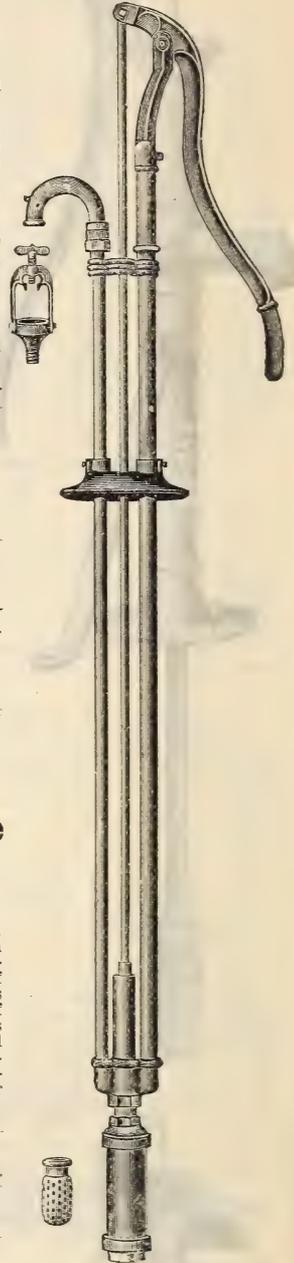


Fig. 325.

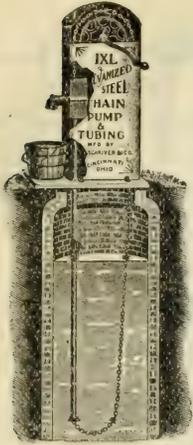
Barnes Double-Acting Force Pumps.

For Hand and Windmill use. Revolving spouts. For shallow and deep wells. Anti-freezing. Can be used in wells from 125 to 150 feet deep. Adjustable base and brace to accommodate setting of pump either higher or lower to suit. In wells deeper than 30 feet the lower cylinder is taken off and lowered to desired depth. Lower cylinder is furnished with new style brass poppet valves and brass valve seats. Each pump is supplied with IMPROVED MALLEABLE hose attachment and suction strainer. With the aid of 3 way cocks, water may be forced underground into tanks or cisterns.

| No. | Diameter Cyl. | Sec. Fitted for Pipe. | List Brass Cyl. | Retail Brass Cyl. | List Brass Lined Cyl. | Retail Brass Lined Cyl. |
|--------|---------------|-----------------------|-----------------|-------------------|-----------------------|-------------------------|
| 4..... | 3 ins. | 1½ in. | \$15.00 | \$9.00 | \$14.00 | \$8.40 |

1¼ inch Galvanized Pipe, per foot..... List, 22 cents. Retail, 10 cents.
 " Rod, " 9 " " 5 "

THE IXL GALVANIZED STEEL CURB.



It will not rust, being made out of No. 24 Gauge Galvanized Steel.

It will not rot or accumulate filth, and leaves the water clear and pure.

It is anti-freezing, as the reservoir piece has a small hole in same, which allows the water to run out.

It can be used in wells as deep as 40 feet.

PRICES.

| | |
|-----------------------|--------|
| Galvanized Curb..... | \$3.25 |
| Tubing, per foot..... | .07 |
| Coupling..... | .16 |
| Rubber Buckets..... | .08 |
| Iron Platform..... | 4.00 |

CHAIN PUMPS.

This Wood Curb Chain Pump is first-class in every respect; nicely finished; nicely painted and striped.



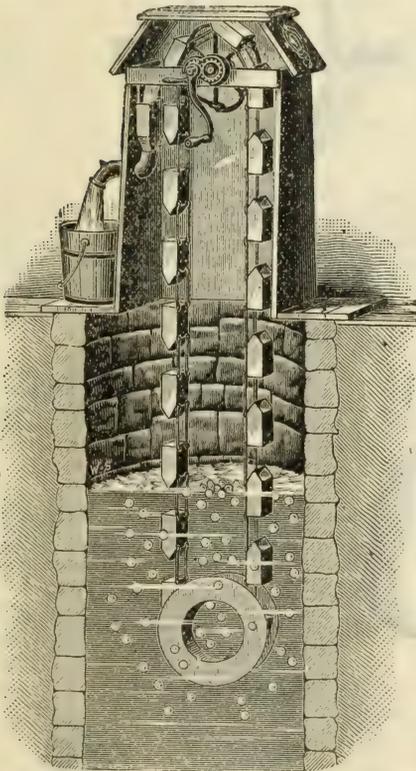
PRICES.

Chain Pump Curbs, each, \$2.00.

Chain Pump Tubing, per foot, 5 cts.

Chain (running 4 to 4 1/2 feet to lb.), per lb., 7 cts.

WATER ELEVATOR AND PURIFIER.



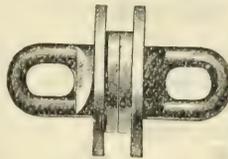
Purifies water by means of oxygen forced into water. Strength, durability, workmanship cannot be surpassed.

Pumps are carefully inspected before leaving factory.

PRICES.

| | |
|--|--------|
| Elevator, with 20 ft. Chain and Japanned Bottom Wheel..... | \$5 50 |
| Elevator, with 30 ft. Chain and Japanned Bottom Wheel..... | 6 00 |
| Extra Chain 10 cts per foot. | |

IXL RUBBER BUCKET.



1. Cannot be put in wrong. This is a special feature, as many buckets are ruined the first time they are used on account of being put in upside down.

2. Made of first quality rubber, and and is a double bucket—has two wearing edges instead of one—with a corresponding increase of suction power.

3. A water space that allows a water friction, which is as good as rubber, without any increase of friction.

4. Reversible and self-adjusting, as the great pliability of the rubber allows it to adjust itself to any size tubing.

5. A reverse motion of crank will not injure it. The rubber cannot be stripped from link. **Price, 8 cts.**

THE QUEEN.

The elasticity allows it to adjust itself to any evenness in the tube, and the durability is unquestionable.

Price..... 8 cts.



CROSBY SWIVEL LINK.

Lets twists and kinks out and prevents catching and breaking of chain. Has an air chamber on top, which conducts air to bottom of well. It is self-expansive, the base of bucket being an eighth of an inch larger at the bottom than bore in the tubes, which allows it to expand and the groove in the side to contract. The wear comes on the whole side and not on the extreme edge.

Price..... 10 cts.

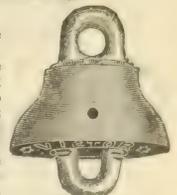


VICTOR EXPANSION RUBBER BUCKET.

For Chain Pumps, Anti-Freezing.

These are made of best materials, malleable iron links, best quality white rubber, so formed as to lock the nut wherever it is placed on the link. They have largest expansion and great durability, and give perfect satisfaction. To adjust this bucket to fit tubing, the rubber is first turned back, thus exposing the nut and allowing it to be moved with ease up or down on the link. When the nut is located on the link as far as it can be moved upward, the bucket is of its smallest diameter, and will fit new tubing accurately. Expanded by turning the rubber to the left downward on the link. When the nut is on lowest point of link the bucket has attained its greatest expansion.

Price..... 10 cts.



HALTERS.



No. 238 Cyclone Leather Halters.

1 1/4 in. with 1 1/4 in. Lea Lead. Price.\$1 25

No. 242, 1 1/4 inch, with 1 1/4 in. Lea Lead. Price..... 1 10

No. 1 Web Halters. No. 694.

Continuous piece, solid color both sides, No. 1. Web through metal corners. Leather chin piece. Rope lead, leather latch, with snap.
Price.....30 cents.

Fancy Striped Halters. No. 696.

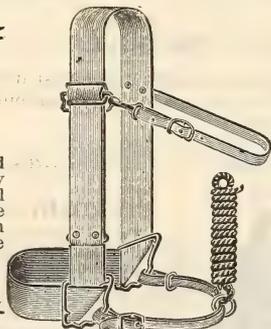
Corners bound with leather riveted to ring loops. Leather chin piece. Rope lead. Leather latch. Snap. Price.....35 cents.

Fancy Striped No. 1 Extra Heavy Halters. No. 698.

Corners bound with leather riveted to ring loops. Leather chin piece with buckle. Rope lead, leather latch and snap.
Price.....40 cents.

No. 699 Adjustable Web Halters.

Continuous piece solid color No. 1 extra quality web, folded through metal corners. Adjustable buckle. Leather chin piece, with buckle. Rope lead, leather latch, snap.
Price 50 cents



Rope Cattle Ties.

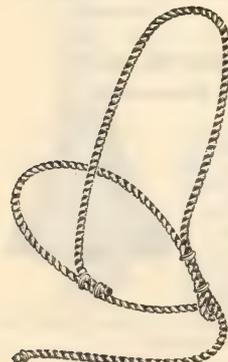
No. 652—1/2 in. Manilla Rope, 8 ft. long.....20 cents
No. 655—1/2 in. XX Sisal Rope, 8 ft. long.....15 cents

Rope Horse Ties.

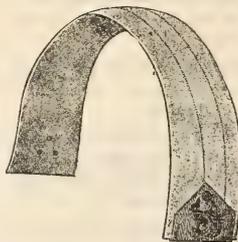
No. 664—1/2 in. Manilla, 10 ft. long, (2 snaps)25 cents
No. 667—1/2 in. XX Sisal 10 ft. long, (2 snaps).....20 cents

Rope Halters.

No. 688—1/2 in. XX Sisal Rope, Price.....15 cents
No. 690—1/2 in. Manilla Rope, Price.....30 cents

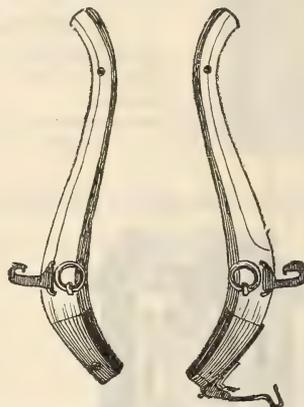


All of our Rope Goods are best quality, standard size, and full length. Order by number for any kind Halter.



Folded Duck Back Bands.

PATENT HOOKS.
Can be used with either chain or rope traces. Our goods are full length; shorter lengths can be sold for less money.
Price.....50 cents



Loudon Patent Hames, per pair.....\$1.00
Loudon Tie Hames, per pair..... .75
Taylor Root Pat. Hames, per pair..... .60
Taylor Root Tie Hames, per pair..... .50
Sawed Patent Hames, per pair..... .50
Sawed Tie Hames, per pair..... .30
Special Prices to both Wholesale and Retail Dealers.

Hame Strings.

Black, 5-8.....10c. each. \$1.00 per doz.
Black, 3-4.....12c. each. 1.25 per doz.
R. Hide, 5-8.....12c. each. 1.25 per doz.
R. Hide, 3-4.....15c. each. 1.50 per doz.



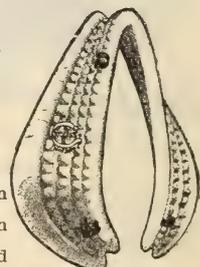
Collars.

No. 192—Draft Collars, split leather back and rim, Duck face, price..... \$.85
No. 1101—Team do., heavy, price.... 1 25
No. 136—Kip Team, Thong Sewed, price..... 1 75
No. 155—Scotch, Kip, Back and Rim Tick Face, price..... 1 75
No. 157—Scotch, Kip Back and Rim Sheep Skin Face, price..... 2 00

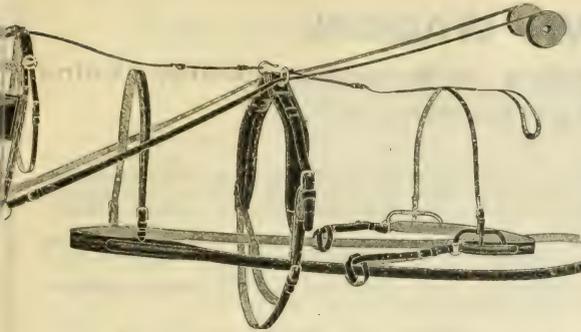
"Felt and Less" and "Kurine" Brand.

Sweat Pads.

"Kurine"—9 in. each 30c. Brown and White Drill.
"Kurine"—11 in. each 35c. Brown and White Drill.
"Felt Less"—10 in. each 50c. Old Gold Drill.



This line of "Kurine" brand presents more attractive features than any similar line of medium-priced Sweat Collars on the market.



NO. 1. SINGLE BUGGY HARNESS.

Bridles, 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, \$7.00; with Breast Collar, \$6.50.

NO. 2. SINGLE BUGGY HARNESS.

Bridle, 5-8 inch; Trace, 11-8 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, \$10.00; with Breast Collar, \$9.00.

NO. 3. SINGLE BUGGY HARNESS.

Bridle, 5-8 inch; Trace, 1 1-8 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, \$11.50; with Breast Collar, \$10.00.

NO. 4. SINGLE CARRIAGE HARNESS.

Bridle, 5-8 inch; Traces, 11-4 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, \$11.75; with Breast Collar, \$10.50.

NO. 5. SINGLE CARRIAGE HARNESS.

Bridle, 3-4 inch, Chain Front; Traces, 11-4 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 Collar and Hames, \$14.00; with Breast Collar, \$12.50.

NO. 6. SINGLE CARRIAGE HARNESS.

Bridle, 5-8 inch, Front; Traces, 11-3 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, \$15.50; with Breast Collar, \$13.00.

NO. 7. HAND-MADE SINGLE BUGGY HARNESS.

Bridle, 5-8 inch; Traces, 11-3 inches; Saddle, 3 inches, Hand Laced, Leather Lined; Breast Collar and Breeching, Folded with Wave Lay; Flat Lines; Full Nickel or Imitation Rubber Mounting; Hand Stitched. Price, with Collar and Hames, \$21.00; with Breast Collar, \$18.50.

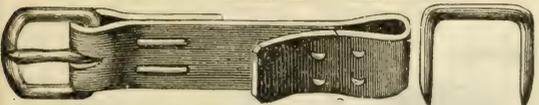
NO. 100. EXPRESS HARNESS.

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, \$14.50.

NO. 101. EXPRESS HARNESS.

Bridle, 3-4 inch; Traces, 11-4 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, \$19.00.

"RAPID" HARNESS MENDERS.



Patented February 2, 1886. March 27, 1888. The finest way of applying a buckle known. Any part of a harness can be mended in a very short time—no riveting, no sewing to rot away, and no special tools required. Price, 25 cents per gross; by mail, 35 cents.

NO. 102. EXPRESS HARNESS.

Bridle, 3-4 inch; Traces, 11-2 inches, to buckle to Hames, or with Heel Chains and, attached to Hames; Saddle, 41-2 inches, with Kersey Lining, Folded Breeching, with Straight Lay; Double Hip Straps; Brass or Nickel Mounting; Imitation Hand Stitched. Price, \$22.50.

NO. 200. DOUBLE BUGGY HARNESS.

Bridles, 5-8 inch; Traces, 1 inch; Fancy Bound Pads, 11-4 Side Pieces and Folded Bellybands; Turnbacks, 3-4 inch; Hip Strap, 5-8 inch, with Patent Leather Drops; Flat Lines; Kip Collars; X-C Mounting. Price, \$17.50.

NO. 201. DOUBLE BUGGY HARNESS.

Bridles, 5-8 inch; Imitation Chain Front; Traces, 1 1-3 inches; Fancy Bound Pads under same; 11-4 inch side Pieces and Folded Bellybands; Turnback, 3-4 inch; no Hip Strap; Flat Lines; Patent Leather Collars; Full Nickel or Imitation Rubber Mounting; Imitation Hand Stitched. Price, \$25.00.

NO. 202. DOUBLE BUGGY HARNESS.

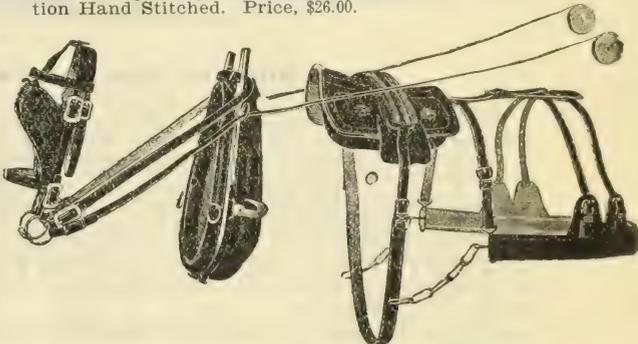
Bridles, 5-8 inch; Traces, 1 1-8 inches; Plain Pads, with Leather Housings under same; 11-4 inch Side Pieces; Folded Bellybands; Turnback, 3-4 inch, waived; Flat Lines; Patent Leather Collars; Nickel or Imitation Rubber Mounting; Imitation Hand Stitched, nicely Finished. Price, \$30.00.

NO. 300. 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; Kip Face Collars; Flat Lines. Price, \$20.00.

NO. 301. 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; 7-8 Double Hip Strap; Kip Collars; Flat Lines; Imitation Hand Stitched. Price, \$26.00.



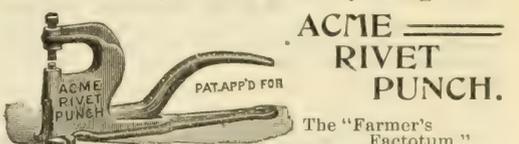
NO. 302. HEAVY DOUBLE WAGON HARNESS.

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 Collars; Flat Lines; Imitation Hand Stitched. Price, \$34.00.

NO. A. DUMP CART HARNESS.

Bridle, 7-8 inch; Lines, 7-8 inch; Breeching, 3 inches; No. 5 Saddle, Leather Covered; No. 62, Iron Bound Hames, 7-8 Hame Straps; Tug Chains; Kip Team Collar. Price, \$10.00. Prices on cheap Cart Harness on application.

Save Money on the Farm by Using the



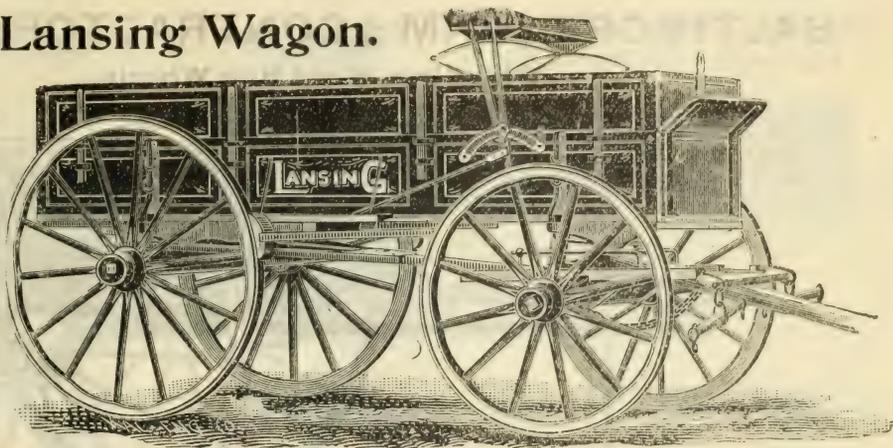
ACME RIVET PUNCH.

The "Farmer's Factotum."

FOR MENDING HARNESS, BELTING, ETC.
Adapted for No. 1 Tubular Rivets which are sold by the Hardware Trade. A sample package of assorted rivets furnished with each machine. This little machine will save more time and money for the farmers and liverymen than anything on the market. Price: Acme Rivet Punch, with box of 50 assorted rivets\$1.00

The Lansing Wagon.

One of the Lightest Running, most substantially Ironed and Finished Wagons on the market. Wheels boiled in Linseed Oil before the tire is set, and every Wagon is fully warranted against defects in either material or workmanship.



Retail Prices as Follows.

| Size of Skein. | Size of Tire. | Capacity Cast Skein. | Brake. | Price Cast Skein Gear Brake. | Capacity Steel Skein. | Price Steel Skein. |
|----------------|---------------|----------------------|--------|------------------------------|-----------------------|--------------------|
| 2 1/4 x 8 | 1 1/4 x 1 1/2 | 2000 | Gear. | \$59 00 | 2500 | \$62 50 |
| 2 3/4 x 8 | 1 1/2 x 1 1/2 | 2500 | " | 60 00 | 3000 | 64 00 |
| 3 x 8 | 1 1/2 x 1 1/2 | 3000 | " | 61 50 | 3500 | 66 50 |
| 3 1/4 x 10 | 1 1/2 x 9-16 | 3500 | " | 62 50 | 4000 | 69 00 |
| 3 1/2 x 11 | 1 3/4 x 5/8 | 4000 | " | 65 00 | 5000 | 71 01 |
| 3 3/4 x 12 | 1 3/4 x 5/8 | 5000 | " | 69 00 | 6000 | 75 00 |
| 4 x 12 | 2 x 3/4 | 6000 | " | 72 00 | 8000 | 81 00 |

1 1/4 inch Steel Axle One-Horse Wagon, 1200 pounds capacity, with Body Brake, \$40.00.

Above prices include Double Box, Seat, Whiffle trees and Gear Brake top of hounds.

If gear only is wanted, deduct \$10.00 from above prices.

For wide Tire add prices on Wagons as follows:

| | | |
|---|---|--|
| For 2 x 5/8 inch Tire add..... \$ 3 00 | For 3 x 5/8 inch Tire add..... \$6 00 | For 4 x 3/4 inch Tire add..... \$10 00 |
| For 2 1/2 x 5/8 inch Tire add..... 4 50 | For 3 1/4 x 5/8 inch Tire add..... 8 00 | For 3 x 3/4 " " "..... 12 00 |
| 12 in. Lower Box, no seat..... 10 00 | 8 inch or 10 inch Top Box..... 2 00 | Gear Brake, complete..... 5 50 |
| 14 in. " " "..... 11 00 | Spring Seat..... 3 00 | Rear Brake attachment..... 4 00 |

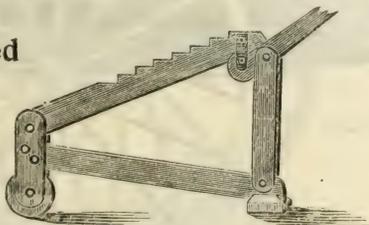
List Prices on Lansing Wagons Complete.

| Size of Skein. | Size of Tire. | Price with Cast Skeins. | | | Price with Steel Skeins. | | |
|----------------|---------------|-------------------------|----------------------------|-------------------------|--------------------------|----------------------------|-------------------------|
| | | Capacity. | Price, without Gear Brake. | Price, with Gear Brake. | Capacity. | Price, without Gear Brake. | Price, with Gear Brake. |
| 2 1/4 x 8 | 1 1/4 x 1 1/2 | 2000 | \$ 90 00 | \$ 98 00 | 2500 | \$ 96 00 | \$104 00 |
| 2 3/4 x 8 | 1 1/2 x 1 1/2 | 2500 | 92 00 | 100 00 | 3000 | 98 00 | 106 00 |
| 3 x 8 | 1 1/2 x 1 1/2 | 3000 | 94 00 | 102 00 | 3500 | 102 00 | 110 00 |
| 3 1/4 x 10 | 1 1/2 x 9-16 | 3500 | 96 00 | 104 00 | 4000 | 106 00 | 114 00 |
| 3 1/2 x 11 | 1 3/4 x 5/8 | 4000 | 100 00 | 108 00 | 5000 | 110 00 | 118 00 |
| 3 3/4 x 12 | 1 3/4 x 5/8 | 5000 | 106 00 | 114 00 | 6000 | 116 00 | 124 00 |
| 4 x 12 | 2 x 3/4 | 6000 | 112 00 | 120 00 | 8000 | 126 00 | 134 00 |

If Gear only is wanted, deduct for lower box, \$12.00; Top Box, \$2.00; Seat, \$4.00, from above list prices.

Miller's Improved Wagon Jack.

IT IS MADE IN THREE SIZES.



- No. 1.—Adapted for Buggies or light work, capacity 2,000 pounds..... \$1.25
- No. 2.—For Heavy Wagons, Transfer Wagons, Trucks, etc., capacity from 3,000 to 5,000 pounds..... 1.50
- No. 3..... 2.25

It is made of selected Ash Wood, put together with bolts. Its weight is respectively nine and fourteen pounds each for Nos. 1 and 2. They are very strong and durable, as the strain comes parallel with the grain of the wood, the weight is shared throughout the entire machine. Some of the advantages of this Jack over all others on the market are: It is so constructed that you do not have to make any adjustments for different height axles, as this is regulated by the notch bar. The notch

List Prices on Extras.

Gear Brake, complete, \$8.00; Rear Brake, Attachments, \$6.00; Body Brake, complete, \$5.00.

When wanted with Wide Tire, add as follows :

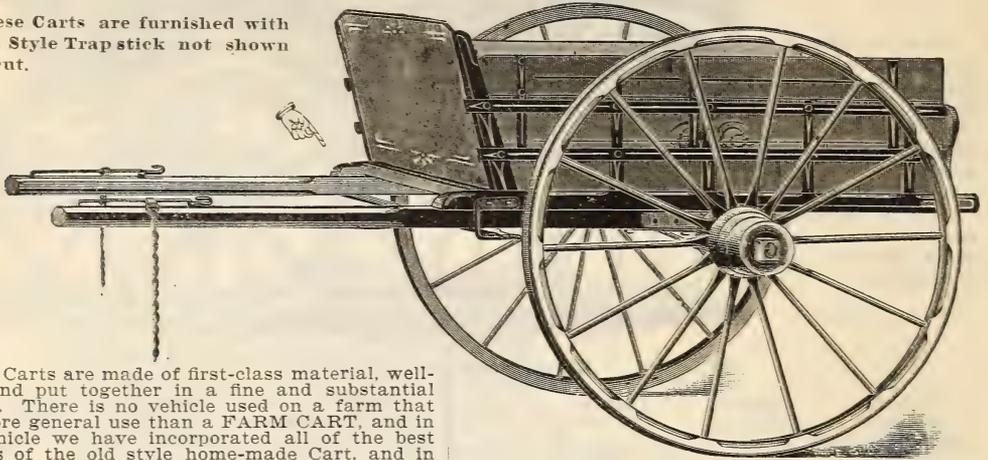
| Thickness. | 2" wide. | 2 1/2" wide. | 3" wide. | 3 1/2" wide. | 4" wide. |
|------------|----------|--------------|----------|--------------|----------|
| 1/2" | \$2 00 | \$ 4 00 | \$ 6 00 | \$ 8 00 | \$10 00 |
| 3/4" | 3 40 | 5 70 | 8 00 | 10 40 | 12 70 |
| 5/8" | 4 60 | 7 40 | 10 00 | 12 80 | 15 40 |
| 3/4" | 6 20 | 9 10 | 12 00 | 15 20 | 18 10 |
| 7/8" | 7 60 | 10 80 | 14 00 | 17 60 | 20 80 |
| 1" | 9 00 | 12 50 | 16 00 | 20 00 | 23 50 |

bar raises perpendicularly, which keeps the vehicle from pushing forward or backward, and thereby going away with blocking or scotching. You do not, in placing it under the axle, wagon or truck, have to get down under the bed to place it under the axle. It will work on any kind of surface. The eccentric lever with the moving bars, gaining on every pound lifted, makes it a good lever by which a boy ten years of age can lift the heaviest wagon. This Jack is an improvement which combines simplicity, practicality and efficiency. This is the best Jack made! Gives entire satisfaction! Why not try it? We also have a cheap Jack, very simple in construction, but one which is easily handled, and is all right for light work. Price, 50 cents.

BALTIMORE FARM & CONTRACTORS CARTS

With Plain Wood Hub Wheels.

These Carts are furnished with Old Style Trapstick not shown in cut.



These Carts are made of first-class material, well-built, and put together in a fine and substantial manner. There is no vehicle used on a farm that is of more general use than a FARM CART, and in this vehicle we have incorporated all of the best features of the old style home-made Cart, and in consequence have now without doubt the best article of its kind on the market. We retain the OLD trap stick, for the reason that with all the improvements there has never been discovered anything that can supercede it. We have sold these Carts more or less extensively throughout Maryland, Virginia, Pennsylvania, New York, New Jer-

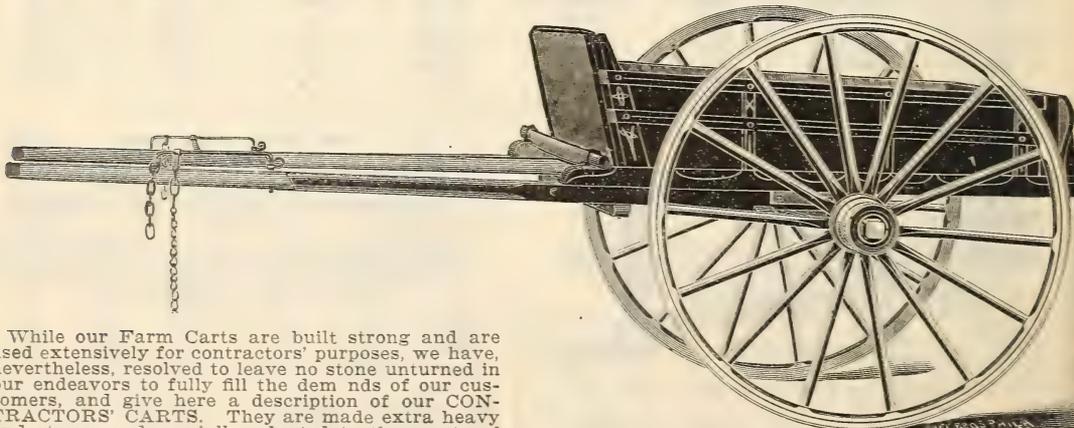
sey, North Carolina, and other parts of the South, and judging from our largely increasing trade, we are prepared to say that it is **JUST THE CART NEEDED**. It has been our sole aim to have nothing but the best, not only in Carts, but everything else that we handle. Below see description and price:

| Size of Axle. | Size of Spokes. | Size of Tires. | Diam. of Wheels. | Dimension of Box Inside Measure. | | | | Weight. | Capacity. | Price. |
|---------------|-----------------|----------------|------------------|----------------------------------|--------|--------|---------|---------|-----------|--------|
| | | | | Length. | Width. | Depth. | Top Box | | | |
| 1 1/2 " | 1 3/8 " | 2x3/4 | 4 ft. 6" | 5 ft. 1" | 3 ft. | 11" | — | 300 | 1000 | \$2 50 |
| 1 1/2 " | 1 3/8 " | 3" | 4 ft. 6" | 5 ft. 1" | 3 ft. | 11" | — | 300 | 1000 | 35 00 |
| 2 " | 2 1/8 " | 2 1/2 x 3/4 | 4' 11" | 5 ft. 10" | 3' 1" | 13 | 6" | 500 | 2000 | 37 50 |
| 2 " | 2 1/8 " | 3x1/2 | 4' 11" | 5 ft. 10" | 3' 1" | 13 | 6" | 500 | 2000 | 40 00 |

All of our Carts are built of hard wood, good, dry stock. Our axles are made of gun metal steel, a feature not found in other carts.

BALTIMORE CONTRACTORS CART.

Plain XX, Wood Hub Wheels Built Without Top Box Bodies Hardwood, with Three Sills Instead of Two.



While our Farm Carts are built strong and are used extensively for contractors' purposes, we have, nevertheless, resolved to leave no stone unturned in our endeavors to fully fill the demands of our customers, and give here a description of our **CONTRACTORS' CARTS**. They are made extra heavy and strong and specially adapted to the wants of city contractors. While material and finish of our Farm Carts will be found embodied in these, they

are heavier in every way, and built with three sills instead of two.

| Size of Axle. | Size of Spokes. | Size of Tire. | Diam. of Wheels. | Demension of Box Inside Measure. | | | | Weight. | Capacity. | Price. | Cubic Feet. |
|---------------|-----------------|---------------|------------------|----------------------------------|--------|--------|-------------------|---------|-----------|---------|-------------|
| | | | | Length. | Width. | Depth. | Top Box if want'd | | | | |
| 2" | 2 1/2 " | 2x3/4 | 4' 11" | 5' 3" | 2' 10" | 13" | 5" | 600 | 2500 | \$42 50 | 16 |
| 2 | 2 1/2 " | 3x3/4 | 4' 11" | 5' 3" | 2' 10" | 13" | 5" | 600 | 2500 | 45 00 | 16 |

Top boxes on both sizes, \$3.00 extra. Well ironed and braced for hard wear. If above dimensions are not suitable to your business, we will make them to your order.

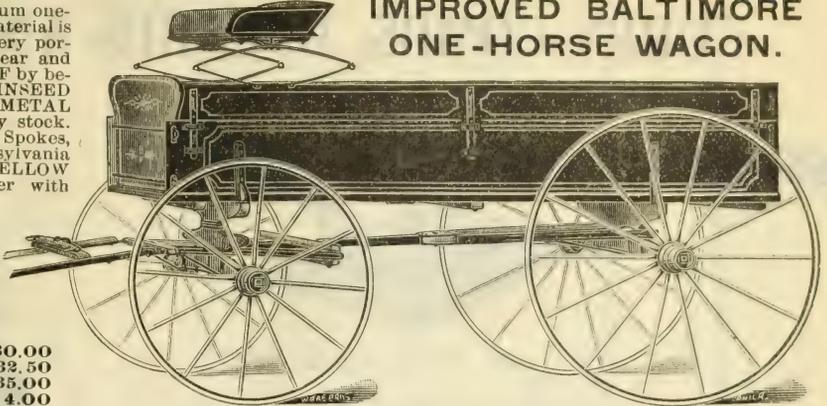
THIS is one of the best medium one-horse wagons made. All material is thoroughly air dried. Every portion of wood work of gear and wheels is made **WATER-PROOF** by being saturated in **BOILED LINSEED OIL**. Axles, best quality **GUN METAL** steel and six-year dry hickory stock. Hubs, New York black birch. Spokes, gearing and felloes, **XX Pennsylvania white oak**. Bodies best grade **YELLOW POPLAR**. Can be used either with shafts or tongue.

See below description and price :

Axles, 1 1/4-inch steel; 1 3/8-inch Warner wheels; 3 feet 6 inches and 4 feet high; spring seat; weight, about 400 pounds.

Capacity, 1000 pounds.

| | |
|--------------------------|---------|
| Price—Without brake..... | \$30.00 |
| “ With body brake..... | 32.50 |
| “ gear brake.... | 35.00 |
| “ Shafts (extra)..... | 4.00 |
| “ Pole (extra)..... | 6.00 |

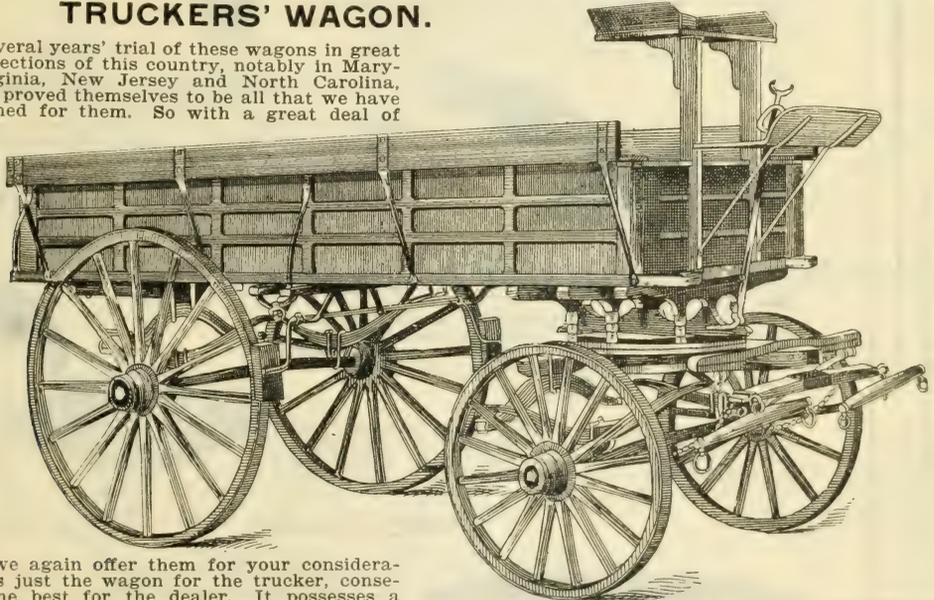


IMPROVED BALTIMORE ONE-HORSE WAGON.

SPECIAL DISCOUNT FOR CASH.

TRUCKERS' WAGON.

After several years' trial of these wagons in great trucking sections of this country, notably in Maryland, Virginia, New Jersey and North Carolina, they have proved themselves to be all that we have ever claimed for them. So with a great deal of



pleasure we again offer them for your consideration. It is just the wagon for the trucker, consequently the best for the dealer. It possesses a number of advantages over any other truckers' wagon that we have seen, viz: The body has two rails on the side; studs, 3/4x1 inch; solid corner posts; hardwood end gate; tires, 2 1/2x5 1/2 inches, and axles 2 inches in rear, where the greatest strain comes, and 1 1/2 inches in front. Capacity, 4,000 lbs. To recapitulate: It is the **BEST PROPOR-**

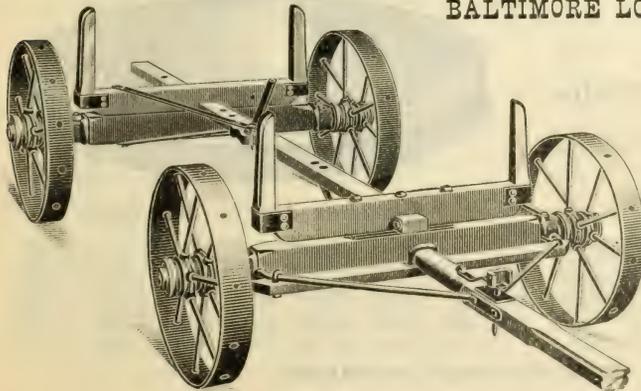
TIONED, BEST BRACED AND BEST FINISHED WAGON of its kind on the market.

Price.....\$175.00

We also furnish a little lighter wagon, made on similar lines with the above. Capacity, 3,000 lbs.

Price.....\$165.00

BALTIMORE LOW DOWN WAGON TRUCK.

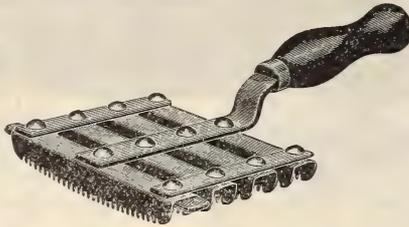
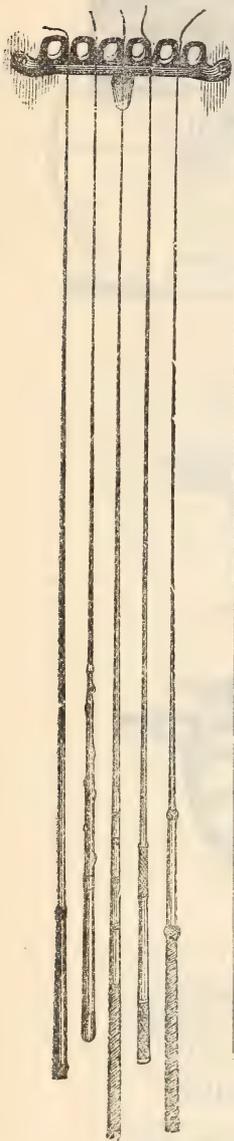


There is nothing so much needed on the farm as a low-down, broad-tire, wide-platform Wagon—used more than all other implements put together. Just the thing for hauling corn stalks, stones, tools, manure, grain, etc. It pulls easily, because the wide tires roll over the surface and cut no ruts. The low wheel saves half the lifting. Such a wagon saves the wages of one man in loading. It will last a generation, and you will have no tire setting or repair bills. Will not upset on side hills, and is great on marshes.

With regular wheels with 28-inch front and 30-inch rear..... \$25.00

This shows the wagon just as we price it. The farmer can use the box, hay rack and double trees belonging to his old high-wheel wagon, or make them at home. We will, when desired, furnish them at a slight addition to cost.

CURRY COMBS, BRUSHES AND WHIPS.



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 dozen. Each, **10 cts.**



No. 480.

8 Bars, Hand Riveted.

PATENT APPLIED FOR.
No. 480—Columbia.....Lacquered, **25 c.** each.
Packed 1 doz. in box. Cases are made for 24 doz.
EIGHT BARS, EXTRA HEAVY.
No. 490—All Steel shank runs through handle and is riveted..... **25 cts.** each.
Packed 1 doz. in box. Cases are made for 24 doz.

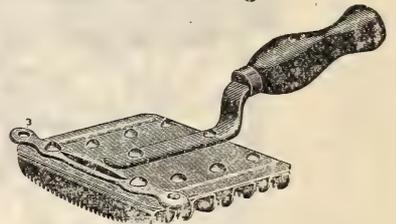


No. 800.

All Steel, Close Back.

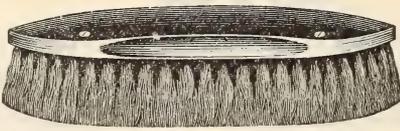
No. 800.
All steel, close back, lacquered, extra size, oval face, curved knockers, braced shank, extending through handle and riveted, enameled handle, brass ferrule, 8 bars. Packed 1 doz. in box. Cases made for 24 dozen. Price each, **20 c.**

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 doz. in box. Cases made for 24 doz. Price each, **15 cts.**



No. 183.

Dandy Brushes.



No. 10—Dandy, each25c.
No. 20—Dandy, each30c.
No. XX—Palmetto Dandy, each40c.
London Dandy, with leather protection side pieces, each75c.
No. 700—Dandy, made of selected fine root, each60c.
All of above are packed six in a box.
No. 707—Grenelle Brushes, our best brush, each.75c.

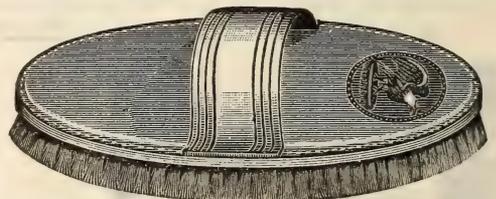
Buggy, Coach and Wagon Whips.

Made of the best material. Bone, Rawhide and Wood Handles. We furnish assortments of whips done up ready for shipment, in two kinds.

Assortment No. 1 contains 3 dozen whips.
Assortment No. 2 contains 5 dozen whips.

Three whip racks free with each assortment. This is the biggest bargain the dealer ever had offered. Write for special prices, at which you can readily sell them. We also keep constantly on hand single whips. Prices from **10 cents to \$2.50** each, retail.

Send for free particulars regarding assortments.



Leather Back Brushes.

No. 36—Patent leather back, each.....40c.
No. 122—Yellow leather back, each.....50c.
No. 21—Yellow leather back, each.....75c.
No. 447—Russet leather, pure bristle, each.....\$1.25
No. 505—Russet leather, pure bristle, each.....1.50
No. 600—Russet leather, white bristle, each.....2.00
No. 445—Russet leather, black bristle, each.....1.50

CHAINS.

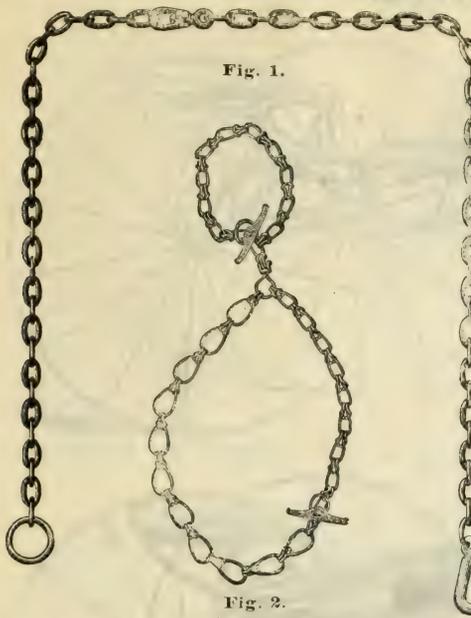


Fig. 1.

Fig. 1. No. 67—Fifth Chain, round hook, ring and swivel, bright or black, made with stretchers also if desired.
 No. 67—10x $\frac{3}{8}$\$1 00
 Regular hook, No. 68—10x $\frac{3}{8}$ with patent hook.....\$1 50

Figs. 2 and 4—Triumph Chains, very light, possess great strength, all links have equal strength. Do not kink; no welds to give way; no sharp edges.

| | Each | Per Doz |
|--|-------|----------|
| No 3-0, Triumph Cow Tie (Ohio pattern)..... | \$ 25 | \$2 75 |
| No. 4-0, Triumph Cow Tie (Ohio Pattern) | 30 | 3 25 |
| No. 3-0, 4 $\frac{1}{2}$ ft. Triumph Halter Chain..... | 25 | 2 75 |
| No. 3-0, 6 ft. Triumph Halter Chain..... | 30 | 3 25 |
| No 5-0, 7 ft. Triumph Trace Chain..... | 60 | per pair |
| No. 6-0, 7 ft. Triumph Trace Chain..... | 75 | " |
| No. 5-0, 3 $\frac{1}{2}$ ft. Triumph Butt Chain..... | 50 | " |
| No. 6-0, 3 $\frac{1}{2}$ ft. Triumph Butt Chain..... | 60 | " |
| No. 2, 6 ft. Triumph Kennel Chain..... | 30 | " |
| No. 1, 20 ft. Triumph Tethering Chain..... | 1 00 | " |
| No. 0, 20 ft. Triumph Tethering Chain, heavy... | 1 20 | " |



Fig. 2.

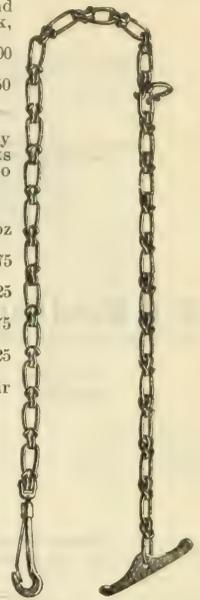


Fig. 4.

Fig. 3—Breast Chains
 Double Stiff, 5-16, pair..... 90c
 Double Stiff, $\frac{1}{4}$, pair..... 75c
 Double Slack, pair.. 50c
 Single Slack, pair.. 40c

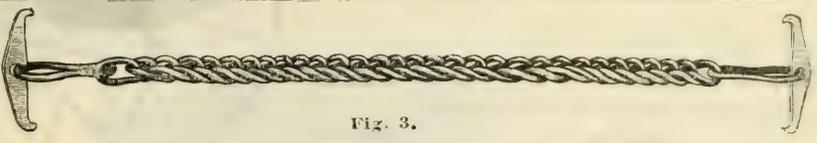


Fig. 3.

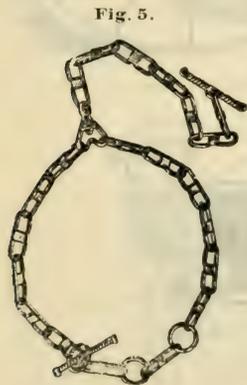


Fig. 5.

| | |
|---|-------------|
| No. 73, Repair Links polished..... | 15c doz. |
| No. 75, Open side Links, polished 10c..... | \$1.00 doz. |
| No. 58, Long Link, Log or Ox Chain, 12x $\frac{3}{8}$ | \$1.00 |
| 14x $\frac{3}{8}$ | 1.25 |
| 14x $\frac{1}{2}$ | 1.50 |
| 14x $\frac{5}{8}$ | 2.00 |
| No. 46, Cart Tug Chains, per pair..... | 20 |

Fig. 5—Patent Sleeve Chains. It is made from steel wire with the ends of the metal inserted into a closely fitting malleable iron sleeve. As these ends abut against the continuous portion of the link, they form a cross-bar, and the more strain placed on the link the tighter the ends are forced together.

This chain is the only Patented chain which has no Unprotected Ends, and is free from obstructions and projections. We offer same in Cow Tie and Long and Short Traces, No. 6 Size.

Cow Ties, each.... 25c
 Cow Ties, per doz. \$2 50

Fig. 6. No. 71—Spreader Chains, Pennsylvania pattern, Black or Self color, \$2.00

Fig. 7—Regular Iron Traces.

| | Retail Price. |
|---------------|---------------|
| 7, 8, 2..... | \$ 40 |
| 7, 10, 2..... | 50 |
| 7, 12, 2..... | 60 |
| 7, 14, 2..... | 75 |
| 7, 16, 2..... | 90 |

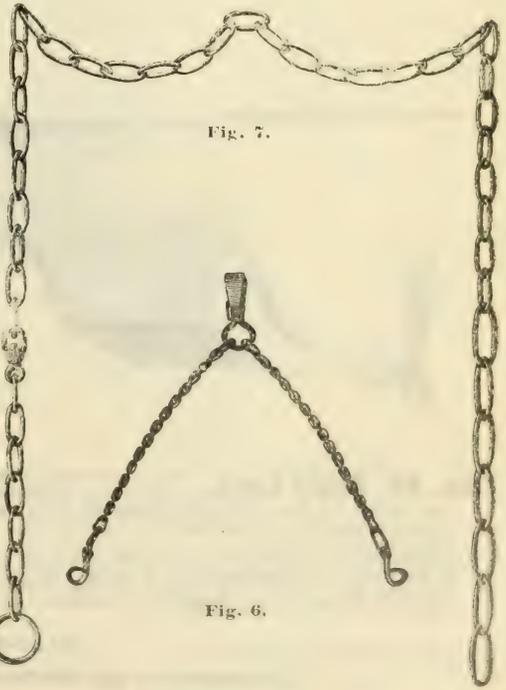
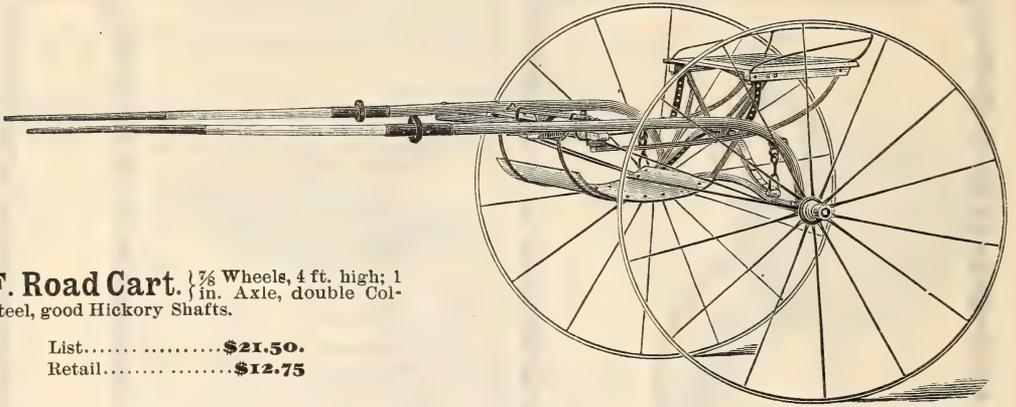


Fig. 7.

Fig. 6.

ROAD CARTS.



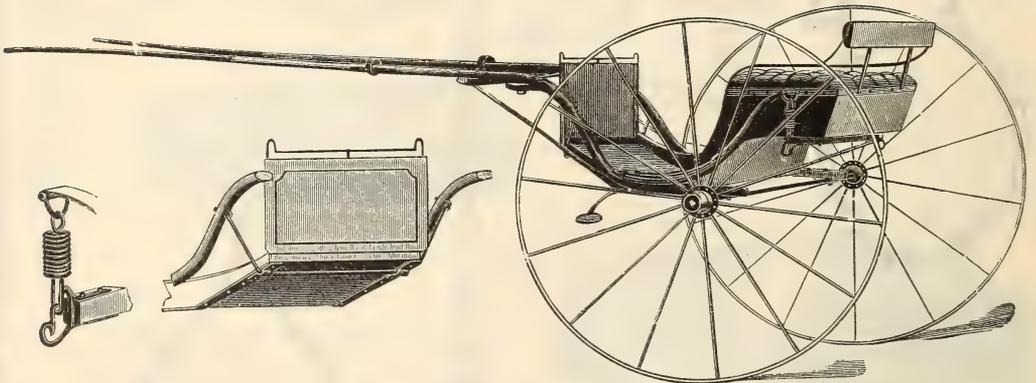
F. F. Road Cart. } $\frac{7}{8}$ Wheels, 4 ft. high; 1 in. Axle, double Collar, Steel, good Hickory Shafts.

List.....\$21.50.
Retail.....\$12.75



No. 0. Body Cart. } $\frac{7}{8}$ Wheels, 4 ft. high; 1 in. Axle, double collar, Steel Spring swings in Shackle; best Hickory Shafts.

List...\$30.00. Retail.....\$18.00



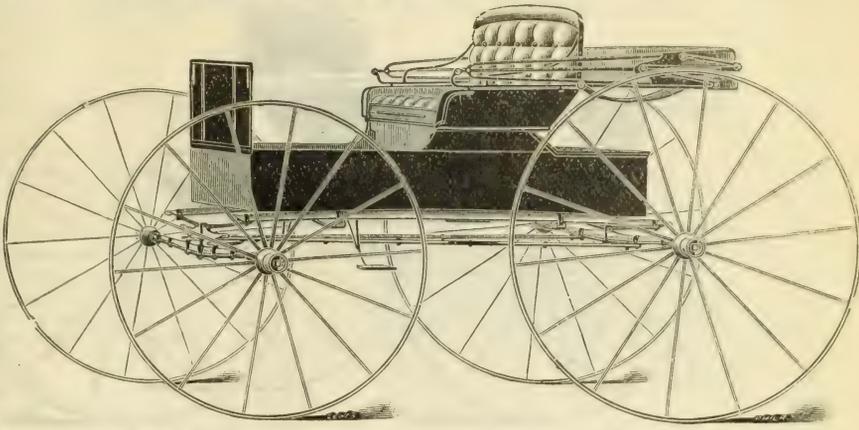
No. 35. Body Cart. } There have been eliminated in this all the objectionable features generally found in Road Carts. Notably among them are the horse motion and back step. In this as seen in cut the step is in front rendering it a very easy matter for ladies to mount, and the springs are so arranged that the only motion felt is in that of a buggy. No horse motion whatever, this can readily be seen by examining the cut.

WHEELS.—Sarven Patent, 4 ft. high; 1 in. tread. Gear Double Collar, Steel Axle, 1 in., coached; double bend shafts, admitting of entering from front; 4 leaf springs, combined with small coil springs; adjusting irons for raising or lowering body. **BODY**—27 inches wide; Seat 30 inches wide, with box underneath, 24 x 11 x 6 in. **TRIMMINGS**—Imitation leather; spring cushion. **PAINTING**—Body black, gear Brewster green, nicely striped.

List.....\$34.00 Retail.\$20.00

BUGGIES.

No. 52 Brewster Spring Buggy.— $\frac{3}{4}$ Double Collar Swaged Steel Axles; shell band or Warner Wheels, No. 1 quality; $\frac{3}{4}$ or $\frac{1}{2}$ in. tread; steel tire bolted between every spoke, body 22 in. wide; seat regular width upholstered in green or blue broad cloth or leather cushions on back are plaited; seat lined. A neatly trimmed job—28 ounce rubber top. Nickel fasteners on stays, body hung low. It is nicely finished, and style is exceedingly good.



| | | | |
|------------------------------|--------------------|--|--------------------|
| Rubber Top, List... \$ 95 00 | Retail... \$ 52 50 | Lea Top and Rubber Sides, List... \$100 00 | Retail... \$ 60 00 |
| Lea Quarter, List... 100 00 | Retail... 55 00 | Full Lea Top, List..... 115 00 | Retail... 62 50 |

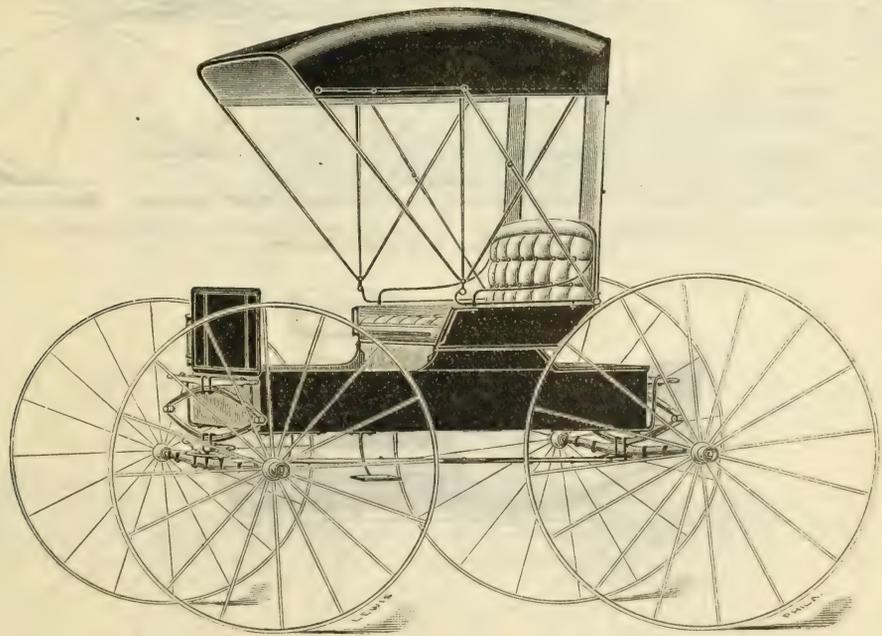
No. 57 Side Bar Buggy—Piano Body.

Wheels No. 1 grade, 3 ft. 9 in. and 3 ft. 5 in. high—Warner or shell band. $\frac{3}{4}$ x3-16 steel tire bolted between every spoke, double perch; well ironed; 15-16 inch double collar, steel axle; springs all clipped on axle; Brewster springs; body black, gear green, black or natural wood finish; can hang on other springs on sufficient notice.

| | | | |
|-----------------------------|-------------------|--|-------------------|
| Rubber Top, List... \$80 00 | Retail... \$45 00 | Lea Top and Rubber Sides, List... \$ 95 00 | Retail... \$52 50 |
| Lea Quarter, List... 85 00 | Retail... 47 50 | Full Lea Top, List..... 100 00 | Retail... 55 00 |

No. 55 Same as No. 57 but with End Spring.

| | | | |
|-----------------------------|-------------------|--|-------------------|
| Rubber Top, List... \$80 00 | Retail... \$45 00 | Lea Top and Rubber Sides, List... \$ 95 00 | Retail... \$52 50 |
| Lea Quarter, List... 85 00 | Retail... 47 50 | Full Lea Top, List..... 100 00 | Retail... 55 00 |



Baltimore Single Leaf End Spring Buggy.

The cut does not show the single leaf feature of the spring, as it could not be obtained in time, for this issue, but in every other respect it is the same. This is rather a new departure but a most excellent arrangement, for ease of riding and general comfort it is not excelled by any other style. Axles $\frac{3}{4}$ double collar steel; Warner or shell band, wheels No. 1 quality; $\frac{3}{4}$ or $\frac{1}{2}$ inch tread, tire bolted between every spoke; body 22 inches wide; seat regular width; nickel hub-bands; nickel prop nuts; trimmed in leather, same as No. 52. A great favorite in the South.

| | | | |
|-----------------------------|-------------------|--|-------------------|
| Rubber Top, List... \$90 00 | Retail... \$50 00 | Lea Top and Rubber Sides, List... \$104 00 | Retail... \$57 50 |
| Lea Quarter, List... 95 00 | Retail... 52 50 | Full Lea Top, List..... 110 00 | Retail... 60 00 |

HEADQUARTERS FOR EVERYTHING IN USE ON THE FARM.

ROAD WAGONS.

No. 00 ROAD WAGON.

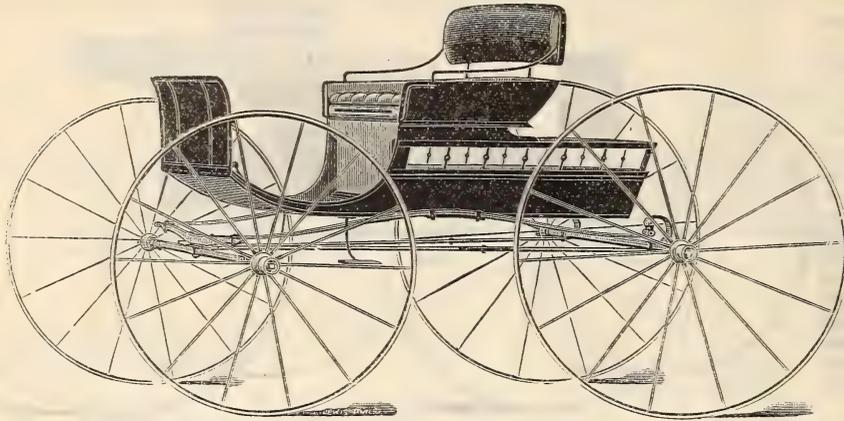
15-16 Double Collar, Steel Axles, Warner or Sarven wheels, $\frac{3}{4}$ or $\frac{7}{8}$ tread, upholstered in corduroy or drill, gear dark green or imitation carmine, body black, oil tempered springs.

**List...\$47 00
Retail 26 00**

No. 00½ ROAD WAGON.

This is the same as 00 (see cut) except it has a CANVAS TOP.

**List...\$57 00
Retail 34 00**



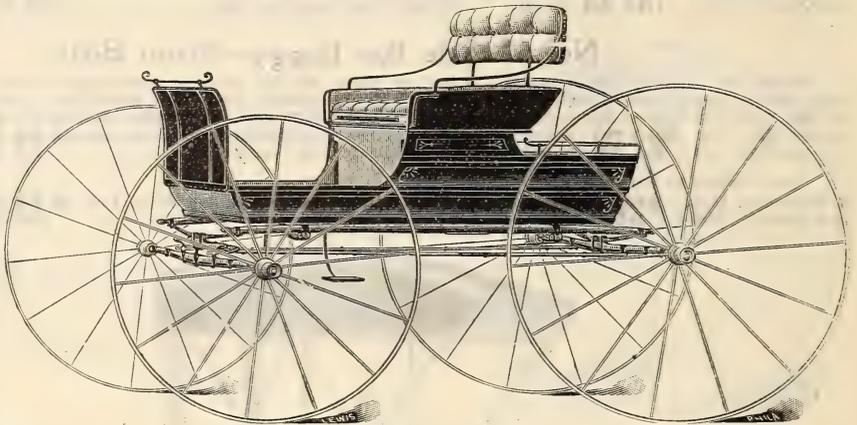
No. 293 ROAD WAGON.

Axles — 15-16 in., Double Collar, Steel Springs, oil tempered, Brewster wheels, Sarven patent, shell band or Warner, $\frac{3}{4}$ or $\frac{7}{8}$ in. tread.

Body—best Ash and Poplar, thoroughly seasoned. Open back. The seat for this job is ironed and arranged for top if desired.

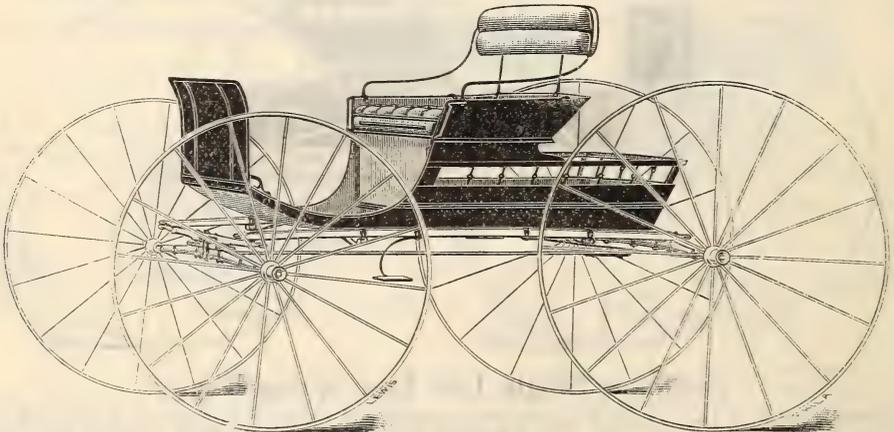
Painting.—Body, in fancy colors or plain black as desired. Gear green or carmine, or natural wood if desired.

Trimming — Corduroy, imitation leather or cloth; extra charge for leather cushion. Leather dash.



Will hang on elliptic spring if desired. **List \$58.00. Retail \$33.00.**

No. 293½ same as above, except it has solid back. In ordering state if Brewster or Elliptic springs is desired. **List \$60.00. Retail \$35.00.**



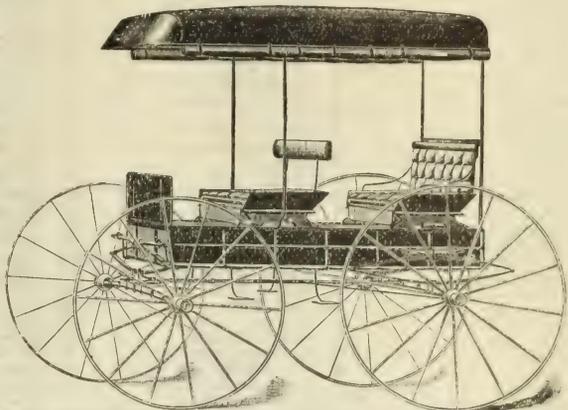
No. 35 ROAD WAGON.

This Wagon is made of Warner wheels exclusively, unless specially ordered otherwise. $\frac{7}{8}$ in. tread, hung on either Brewster, King or Coil Springs. A nicely finished and an exceedingly fine job for the money.

List \$58.00. Retail \$33.00.

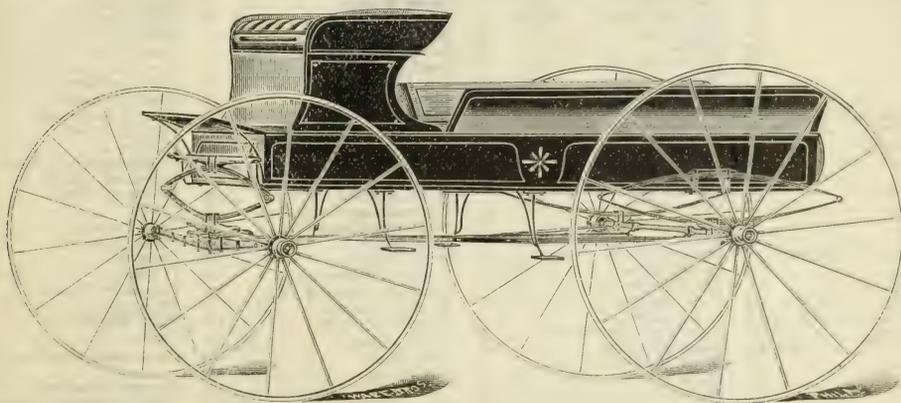
THREE SPRING DAYTON WAGON.

Length of body, 5 ft. 10 in., width 2 ft. 10½ in., frame and seats best white ash; panels best No. 1 Poplar; wheels 3 ft. 9 in. and 3 ft. 5 in. high; 1 1-16 in. spoke; Warner or Shell band; 1¾ in. steel tire; 1 1-16 in. steel axle front spring, 1¾ in. 4 ply; 2 back springs, 1 ¼ in. 4 ply, oil tempered, gear best white hickory; cushions trimmed either leather or cloth; curtains 24 oz., green back, gum; finished natural wood or painted as desired. Hung on Brewster Springs. List **\$95.00**. Retail, **\$55.00**. Can also in dex or side bar at same price.



No. 75 1-2 CANOPY TOP SURREY.

WHEELS.—7/8 or 1 in. tread, Warner, Sarven or Shell Band. Steel tires bolted between every spoke.
AXLES.—1 1-16 in. Double Collar Steel.
SPRINGS.—Oil tempered elliptic.
TRIMMING.—Cloth or imitation leather. Spring cushions and backs. Rubber curtains.
PAINTING.—Gear, Brewster green, imitation carmine or any other color desired.
 We mount this job on Brewster springs if wanted.
 In ordering please state width of track wanted. List **\$147.00** Retail **\$80.00**.



DELIVERY WAGON.

WHEELS.—Sarven; 3 feet 4 in. and 3 feet 8 in. high; 1 in. tread.
GEAR.—Double Collar, Steel Axle, 1 1-16 in. front axle, fantail and swedged and bedded; rear axle coached 3 leaf, 34 in. springs; spring bar and reaches selected hickory, steel body loops front and rear; reaches ironed.
BODY AND SEAT.—Body 6 feet 6 in. long, 29 in. wide, 7 ½ in. panel, with drop end gate; high seat and toe board.
TRIMMINGS.—Imitation of leather cushions.
PAINTING.—Body, black, with fancy striping; gear Brewster green, nicely striped.
Price.....List, \$70.00. Retail, \$40.00.

No. 1, PATENT SHIFTING OR ADJUSTABLE POLE.

Shifts to fit any Carriage or Sleigh. Best selected timber; ironed with Norway iron. List \$13.00. Retail \$8.00.

| | | |
|---------------------------------------|-------------------|----------------|
| Plain Pole..... | List \$10 00..... | Retail \$ 6 50 |
| Buggy Tops Canvass..... | " 15 00..... | " 9 00 |
| Rubber..... | " 18 00..... | " 10 50 |
| Lea, Quarter..... | " 24 00..... | " 14 00 |
| Full Lea..... | " 44 00..... | " 25 00 |
| Buggy Wheels Finished—For No. 57..... | " 20 00..... | " 12 50 |
| For No. 52..... | " 24 00..... | " 15 00 |

INDEX.

| PAGE | PAGE | PAGE |
|--|--|--|
| Vegetable Seeds, 3 to 49 | Back Bands..... 148 | Hamstrings..... 148 |
| Artichoke..... 3 | Baling Ties..... 118 | Hand Weeders..... 67 |
| Asparagus..... 3 | Barn Door Track..... 115 | Harness..... 149 |
| Beans..... 4, 5 | Barn Door Hanger..... 115 | Harness Menders..... 149 |
| Beets..... 6, 7 | Bar Wire..... 143 | Harman Stockade Fence 143 |
| Borecole..... 7 | Barrows..... 109, 110, 111 | Harrows, Spike tooth..... 106 |
| Brocoli..... 7 | Belting, Rubber..... 135 | Harrows, Spring Tooth 104, 105 |
| Brussels Sprouts..... 7 | Belting, Link Chain..... 131 | Harrows, Disc..... 107 |
| Cabbage..... 8, 9, 10 | Bells, Farm..... 115 | Harrow Teeth..... 105 |
| Cantaloupe..... 19, 20, 21 | Berry Press..... 138 | Hay Carriers..... 114 |
| Carrot..... 11, 12 | Binders, Deering..... 130 | Hay Knives..... 68 |
| Cauliflower..... 11 | Binder Twine..... 130 | Hay Presses..... 118 |
| Celery..... 12, 13 | Binder Repairs..... 131 | Hay Rack..... 129 |
| Citron..... 23 | Bolster Springs..... 150 | Hay Rakes..... 119 |
| Corn..... 14, 15 | Bone Mills..... 63 | Hay Rake Teeth..... 119 |
| Corn Salad..... 11 | Bolts and Nuts..... 99 | Hay Tedders..... 119 |
| Cress..... 11 | Brooms, Stable..... 66 | Hay Tedder Forks..... 119 |
| Cucumber..... 15, 16 | Brooders..... 65 | Hay Tool Supplies..... 114, 115 |
| Egg Plant..... 16 | Brushes, Horse..... 154 | Hedge Shears..... 68 |
| Erdive..... 16 | Budding Knives..... 68 | Hitching Post..... 81 |
| Herbs..... 35 | Buggies..... 157 | Hoes, Garden..... 133 |
| Kale..... 17 | Buggy Pole..... 159 | Hollow Hd. Post Spade..... 69 |
| Kohl Rabi..... 17 | Butchering Derrick..... 108 | Hog Trough..... 129 |
| Leek..... 17 | Calf Weaners..... 141 | Horse Powers..... 127 |
| Lettuce..... 17, 18, 19 | Canton Hoist..... 115 | Horse Powders..... 62 |
| Melon, (Cantaloupe)..... 19, 20, 21 | Caponizing Tools..... 64 | Horse Boots..... 80 |
| Melon, (Water)..... 21, 22, 23 | Carts, Farm..... 152 | Horse Radish Grater..... 67 |
| Mushroom..... 24 | Carts, Sprinkling..... 77 | Horse Hoes..... 100 |
| Mustard..... 24 | Carts, Push..... 76 | Hose Reels..... 135 |
| Nasturtium..... 24 | Cast, Plow..... 98 | Horticultural Tools..... 67, 68, 69 |
| Nest Egg Gourd..... 64 | Chains..... 155 | Hot Bed Mats..... 66 |
| Okra..... 25 | Chain Pumps..... 147 | How and When to Spray..... 73 |
| Onions..... 24, 25 | Chicken Coop..... 64 | Incubators..... 65 |
| Parsley..... 26 | Cider Mills..... 138 | Iron Age Garden Tools..... 86, 87 |
| Parsnips..... 26 | Circular Saw..... 115 | Iron Troughs..... 129 |
| Peas..... 28, 29 | Clover Cutter..... 63 | Insect Destroyers..... 66, 72, 77 |
| Pepper..... 26 | Collars..... 148 | Kerosene Sprayers..... 75 |
| Potatoes..... s | Cold Chisel..... 131 | Knife Grinders..... 131 |
| Pumpkin..... 26 | Collar Pads..... 148 | Knife Sections..... 131 |
| Radish..... 30 | Cookers, Feed..... 128 | Knives for Binders..... 131 |
| Rhubarb..... 30 | Contractor's Carts..... 152 | Knives, Budding..... 68 |
| Salsify..... 31 | Corn & Cob Mills..... 124, 125, 126 | Knives, Edging..... 68 |
| Spinach..... 31 | Corn Planters..... 90, 91 | Knife Head..... 131 |
| Squash..... 31 | Corn Shellers..... 120, 121 | Labels..... 67 |
| Sweet Peas..... 49 | Cottars..... 131 | Ladders..... 108 |
| Tomato..... 32, 33 | Cow Ties..... 155 | Lanterns..... 69 |
| Turnip..... 34 | Cultivators..... 100 | Lard Presses..... 69 |
| Bulbs..... 51 to 53 | Cultivators, Riding and Walking..... 102 | Lawn Fountain..... 39 |
| Begonia..... 51 | Cultivator Points & Steels..... 101 | Lawn Feeder..... 39 |
| Calladium..... 52 | Curry Combs..... 154 | Lawn Mowers..... 78, 79, 80 |
| Chrysanthemum..... 52 | Dairy Supplies..... 112, 140, 141 | Lawn Rakes..... 81 |
| Canna..... 51 | Dehorners..... 108 | Lawn Rollers..... 82 |
| Dahlia..... 53 | Debbles..... 67 | Lawn Swings..... 81 |
| Gladiolus..... 52 | Dock Cutters..... 134 | Lawn Sprinkler..... 39 |
| Lilies..... 53 | Drills, Grain..... 84 | Leaf Racks..... 76 |
| Tuberose..... 52 | Drills, S-ed..... 94 | Leg Band..... 64 |
| Plants..... 35 | Drive Well Points..... 144 | Lime Spreader..... 91 |
| Roots, (Asparagus)..... 3, 35 | Drill Points and Tubes..... 94 | Link Chain Belting..... 131 |
| Nursery Dept..... 58, 59, 60 | Drinking Fountains..... 63 | Liquid Atomizer..... 66, 77 |
| Blackberries..... 57 | Edging Knives..... 68 | Lopping Shears..... 68 |
| Raspberries..... 57 | Egg Carrier..... 64 | Mangers..... 129 |
| Currants..... 57 | Farm Mills..... 122, 123 | Manure Hooks..... 134 |
| Gooseberries..... 57 | Farm Bells..... 115 | Mastica Machine..... 66 |
| Strawberries..... 56, 57 | Farm Carts..... 152 | Mattocks and Hand es..... 69 |
| Wineberry..... 54 | Farm Wagons..... 150, 151, 153 | Meat Choppers..... 69 |
| Roses..... 54, 55 | Feed Cookers..... 128 | Mills Feed..... 124, 125 |
| Florist and Garden Supplies..... 66 | Feed Cutters..... 116, 117 | Mole Traps..... 65 |
| Clover Seeds..... 37 | Feed Carriers..... 116 | Monkey Wrenches..... 135 |
| Farm Seeds..... 35, 36 | Feed Mills..... 124, 125 | Mowers, Deering..... 130 |
| Flower Seeds..... 41 to 43 | Fertilizers..... 70, 71 | Mowers, Lawn..... 78, 79, 80 |
| Grass Seeds..... 38 | Fertilizer Distributor..... 97 | Mower Repairs..... 131 |
| Lawn Seeds..... 39, 40 | Field Sprayer..... 87 | Neck Yokes..... 136, 137 |
| Sun Flower..... 37 | Field Rollers..... 83 | Nest Eggs..... 64 |
| Brown Corn..... 37 | Flower Tubs..... 54 | Oat Forks..... 134 |
| Millet..... 37 | Fodder Yarn..... 135 | Oils and Oil Cans..... 135 |
| Hogs, Sheep, Ducks..... 61 | Fodder Shredder..... 117 | Oliver Plows and repairs 96, 97 |
| Chickens, Turkeys..... 61 | Force Pumps..... 143, 146 | Ox Yokes..... 108 |
| Insect Destroyers..... 66, 72, 77 | Forks, (Oats and Barley)..... 134 | Peach Sorter..... 93 |
| Poultry Supplies..... 62, 63, 64 | Forks, Stable..... 134 | Pea Drills..... 91 |
| Dairy Supplies..... | Forks..... 132 | Picks..... 69 |
| Butter Boxes..... 141 | Fruit Pickers..... 69 | Plant Stakes..... 67 |
| Butter Color..... 141 | Gape Extractor..... 64 | Plant Bed Cloth..... 66 |
| Butter Prints..... 141 | Garden Hoes..... 134 | Plant Sprinkler..... 66 |
| Butter Paper..... 141 | Garden Rakes..... 134 | Plow Handles..... 163 |
| Butter Paddles..... 141 | Garden Boxes..... 66 | Plows and Repairs, 96, 97, 98, 99 |
| Butter Workers..... 141 | Garden Drills & Plows 84, 85, 88 | Post Hole Digger..... 69 |
| Butter Ladles..... 141 | Garden Reels..... 67 | Potato Cutter..... 93 |
| Butter Scales..... 112 | Garden Springs..... 66 | Potato Digger..... 93 |
| Churns..... 140 | Georgia Stocks..... 99 | Potato Hook..... 134 |
| Creameries..... 140 | Glazing Points..... 66 | Potato Planter..... 92 |
| Milk Strainers..... 141 | Grafting Wax..... 66 | Potato and Peach Sorter 93 |
| Milk Pails..... 141 | Grain Cradles..... 134 | Poultry Coop..... 64 |
| Milk Cans, (shipping)..... 141 | Grain Fans..... 122, 123 | Poultry Netting..... 64, 143 |
| Thermometer, Dairy..... 67, 140 | Grain and Timothy Force Feeds..... 94 | Poultry Knife..... 64 |
| Implements, Vehicles, Machinery, Etc..... | Granite Grit..... 63 | Poultry Marker..... 64 |
| Acme Rivet Punch..... 149 | Grape Scissors..... 68 | Poultry Supplies..... 62 |
| Acme Powder Gun..... 66, 77 | Grass Catcher..... 79 | Poultry Trough..... 64, 129 |
| Asparagus Knife..... 3, 68 | Grass Edger..... 68 | Powder Gun..... 66, 77 |
| Asparagus Buncher..... 3, 68 | Grass Hooks..... 68 | Pruning Knives..... 65 |
| Atomizer Liquid..... 66, 77 | Grindstones..... 69 | Pruning Saws..... 65 |
| Axes and Handles..... 135 | Grinding Mills..... 124, 125, 126 | Pruning Shears..... 68 |
| Axle Grease..... 135 | Grocer's Trucks..... 112 | Pulverizer, (Imperial)..... 83 |
| | Grub Hoes..... 69 | Pumps..... 144, 145, 146, 147 |
| | Halters..... 148 | Pumping Jacks..... 127 |
| | Hames..... 148 | Pumping Powers..... 127 |
| | | Pump Packing Heads..... 127 |
| | | Pump Trough..... 129 |
| | | Punch, Section..... 131 |
| | | Push Cart..... 76 |
| | | Putty Bulbs..... 66 |
| | | Rafter Nails..... 115 |
| | | Raffles..... 66 |
| | | Rakes..... 81, 134 |
| | | Rat Traps..... 69 |
| | | Refrigerators..... 142 |
| | | Riding Cultivators..... 102 |
| | | Rivet Punch..... 131, 149 |
| | | Road Carts..... 156 |
| | | Road Wagons..... 158 |
| | | Rope..... 134 |
| | | Root Cutters..... 128 |
| | | Row Marker..... 69 |
| | | Rubber Belting..... 135 |
| | | Rubber Buckets..... 147 |
| | | Rubber Hose..... 135 |
| | | Saws, (Circular)..... 115 |
| | | Scales..... 112 |
| | | Scissors, Flower & Grape, 68 |
| | | Scrapers..... 111 |
| | | Scuffe Hoes..... 138 |
| | | Soythes..... 68, 134 |
| | | Soythe Snaths..... 134 |
| | | Soythe Stones..... 66 |
| | | Seed Table..... 66 |
| | | Seed Sowers..... 89 |
| | | Sections..... 131 |
| | | Shears..... 131 |
| | | Sheep Shears..... 68 |
| | | Shovel Plows..... 103 |
| | | Shovels..... 133 |
| | | Shredders..... 117 |
| | | Shredder Cylinder..... 117 |
| | | Silkline..... 66 |
| | | Singletrees..... 136, 137 |
| | | Snaths..... 134 |
| | | Sod Cutter..... 81 |
| | | Spades..... 133 |
| | | Sphagnum Moss..... 66 |
| | | Spray Pumps, Nozzles, 74, 75 |
| | | Sprayers, (Kerosene)..... 75 |
| | | Sprayers, (Field)..... 77 |
| | | Springs, (Bolster)..... 150 |
| | | Sprinkling Cart..... 77 |
| | | Sprinkler, (Barrel)..... 76 |
| | | Sprinkler, (Plant)..... 66 |
| | | Spur and Bevel Jacks..... 127 |
| | | Stay Rollers..... 115 |
| | | Stable Brooms..... 66 |
| | | Steels..... 101 |
| | | Steel Plows..... 99 |
| | | Steel Scrapers..... 111 |
| | | Step Ladders..... 108 |
| | | Stock Trough..... 129 |
| | | Stocks, (Georgia)..... 99 |
| | | Subsoil Plow..... 103 |
| | | Surries..... 159 |
| | | Swinging Feed Tray..... 63 |
| | | Threshing Teeth..... 131 |
| | | Thermometers..... 67, 140 |
| | | Traps..... 69 |
| | | Tree Labels..... 67 |
| | | Tree Pruners..... 68 |
| | | Trowels..... 67 |
| | | Trucks..... 112, 113 |
| | | Truckers Wagon..... 153 |
| | | Troughs..... 129 |
| | | Turf Edgers..... 134 |
| | | Twine..... 130 |
| | | Universal Garden Tools..... 84, 85, 88 |
| | | Variety Machine..... 95 |
| | | Victor Garden Cultivator 133 |
| | | Wagons, (Dayton)..... 159 |
| | | Wagons, (Delivery)..... 159 |
| | | Wagons, (Farm)..... 150, 151, 153 |
| | | Wagons, (Road)..... 158 |
| | | Wagons, (Truckers)..... 153 |
| | | Wagon Jacks..... 151 |
| | | Walking Cultivators..... 102 |
| | | Washing Machines..... 139 |
| | | Water Elevator..... 147 |
| | | Watering Pots..... 67 |
| | | Water Trucks..... 76 |
| | | Weeding Hooks & Forks. 67 |
| | | Weeders..... 67 |
| | | Wheelbarrows..... 109, 110, 111 |
| | | Wheel Hoes and Drills..... 84, 85, 86, 87 |
| | | Wheel Plows..... 84, 85, 86, 87 |
| | | Wheel and Drag Scrapers 111 |
| | | Whips..... 154 |
| | | Whipples Supplementary Harrow Teeth..... 105 |
| | | Whiffletrees..... 136, 137 |
| | | Whiffletree Clips..... 136 |
| | | Wire..... 143 |
| | | Wire Pliers..... 68 |
| | | Wire Stretcher..... 143 |
| | | Wood Saws, Circular..... 115 |
| | | Wrenches..... 135 |
| | | Wringers..... 139 |

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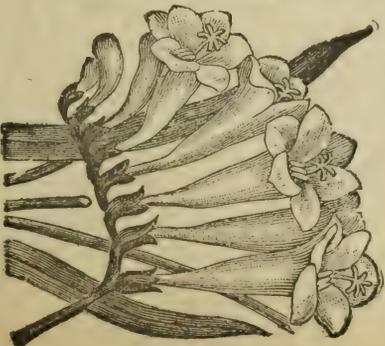
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