





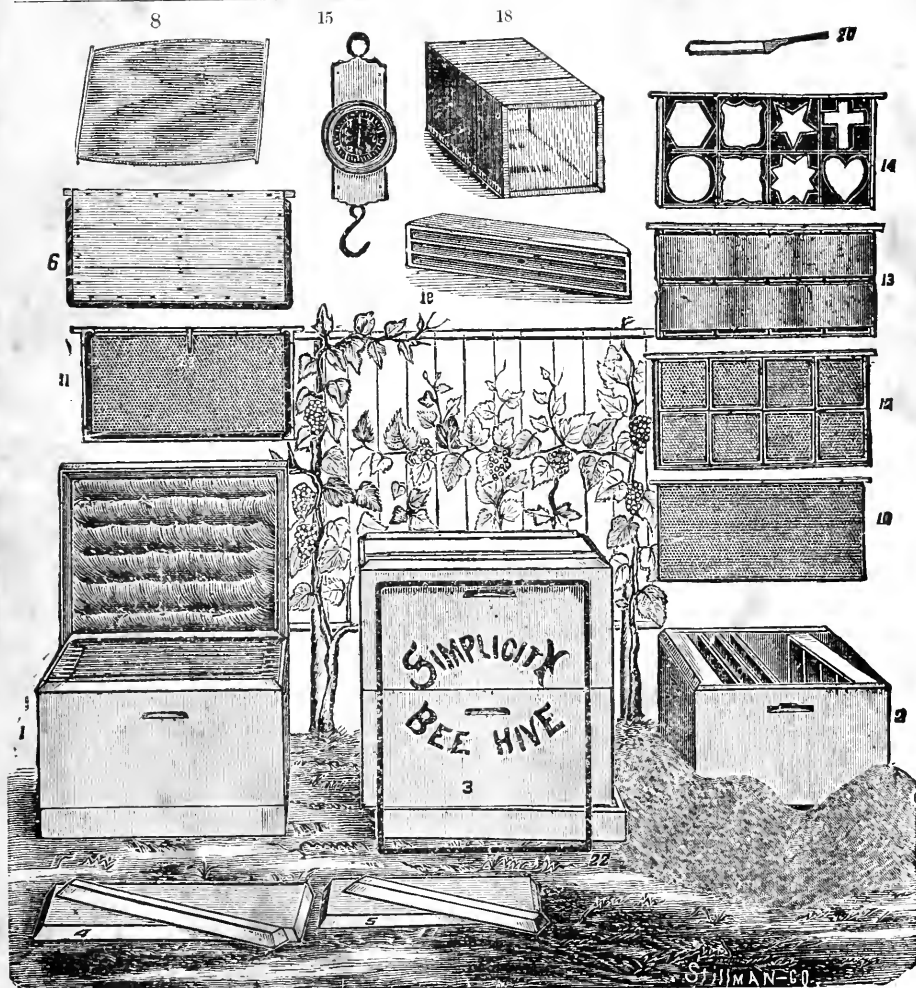
Although this Price List is printed several times a year, as a general thing it is sent to customers only once a year. All changes in goods and prices are given each month in GLEANINGS. Will you therefore please preserve this until you receive another? Should you by chance get more than one, will you please hand it to some bee-keeping friend?

BEES AND HONEY.

Our 40th Edition

Illustrated Catalogue & Price List, OF Implements for Bee Culture with Directions for their Use.

A. I. ROOT, MEDINA, MEDINA CO., O., OCT. 1st, 1883.



Implements for the Apiary.

No. 1 shows a Simplicity Hive, single story, with the Enameled Sheet removed, so as to show the 10 frames in place. We are obliged to have the Enameled Sheet, shown at No. 8, fitted closely over the frames, that the bees may not get to the cover, or it would be stuck so tightly to the frames that we could never get the hive open. For wintering, a thick cushion is used above the Enameled Sheet, and placed in an upper story. This hive is shown with the entrance closed, by pushing it back squarely on the bottom-board, while Nos. 2 and 3 are pushed forward so as to give a $\frac{1}{2}$ -inch passage for the bees. In our own apiary we use ALIGHTING BOARDS (which see) to contract or enlarge the entrances. No. 2 shows the way in which we bank the entrance with sand over grav-

el or cinders, only it needs smoothing down a little more. Cover and bottom-board are always used *same side up*. Bottom-board should rest on four half-bricks. No. 3 is a 2-story hive, being simply two bodies one over the other with the cover removed, the covers and bottom boards being one and the same thing. In the foreground are seen the four simple pieces of which the hive is composed. The two large ones are of course the side and end of a hive, and the strips lying on them are the pieces that are nailed under the cover, as will be readily understood by looking at the diagram on page 7. The iron frame leaning against No. 3 is the gauge to be slipped over the hives while they are being nailed. It is, inside, 20 1/2 by 16 inches, and is slung over the hive both top and bottom, like a hoop. This holds them square and true, and shows when the stuff is just right. If they just fill the hoops, you can be sure that any hive you will have will just fit any other, and that it will be exactly right for every frame in the apiary, if they also are made on a gauge, as they certainly should be, or at least the stuff should be cut to

fit a gauge. No. 6, is the chaff cushion division board. No. 12 is a frame containing 8 section boxes filled with film, and No. 13 is the same with the tin separators added. At No. 2 we see one of these frames of sections at each outside of the hive; this is the way in which we arrange a single story for comb honey, leaving the brood in the middle. At No. 3 the whole upper story is supposed to be filled. With these frames of sections, No. 11 is a metal-cornered frame filled with film, and a transferring clasp, No. 23, is shown pushed down on the top bar, as they are used. At No. 14 we have a frame of "fancy" sections. Number 15 is a spring balance for weighing beehives. No. 18 is the farmers honey box that is the size of three separate sections. No. 19 is a Simplicity feeder. We should have added in the proper place, that the artist has put quite a number of wires on the grapevine trellis, while but 3 are really needed; or, in fact, the vine may be tied to a single stake. The grapevines are also heavy with foliage toward the top of the posts, in the hottest weather.

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OUR PRICE LIST FOR 1883.

Bee keepers who are ready and willing to work for their honey are all busy, we believe, and are all, so far as we know, realizing as fair a reward for the time and capital invested, as in other kinds of business. A few of the most keen and enterprising are, as in all kinds of business, far outstripping the rest, and it rests with you alone, my friend, to determine what place in the ranks you will occupy. Just one piece of advice: However attractive the wares may seem that we are about to describe, we would say, don't get in debt for them; if you haven't the money to purchase, don't buy until you get it. Be humble and satisfied with little, and let your apiary grow of itself, and be self-sustaining. I say this because I *really* do not wish you to be disappointed. If you study the subject and become thoroughly familiar with the bees by actual work among them, both capital and bees will come as fast as you can handle either. I want to see you all prosper, and to do so, you must be cheerful, courageous and independent; above all, don't get crazy and extravagant if you should happen to get \$25 or \$50, as the proceeds of one colony in a season; prosperity is sometimes harder to bear than adversity.

It has always seemed as if those who send us very large orders should have a little better rates than those who order only one article at a time, or say, a dollar's worth of goods, or such a matter. Well, the truth is, friends, I have figured many articles down so low that there is hardly room for any discount at all, especially those sold at ten and hundred rates. However, we have decided to make a discount of two per cent on all cash orders of \$50.00 or over; three per cent on \$100 or over, and five per cent on orders of \$500 or over.

Of a few articles in our price list, such as tin, glass, sugar, nails, honey-seeds, &c., the prices are subject to change without notice; but our customers may rest assured that we always give them the lowest prices we can.

Especial Notice.

If there is any mistake in goods received; if they are damaged, or don't happen to be what you expect, DO NOT RETURN THEM until you have notified us, and we have directed in regard to their disposal. Also, please do not be in haste to complain. Invoices explaining things are sometimes behind the goods.

Please be careful and make your orders PLAIN AND DEFINITE for postage letters, and postals have cost myself and customers HUNDREDS OF DOLLARS.

To Those Sending Orders.

If our patrons, when writing for goods, would make the order on a separate piece of paper, or on one half the sheet so that it can be easily separated from the rest of the communication, it would not only often prevent mistakes in filling the order, and much trouble both to us and themselves, but it would save me hundreds of dollars in the time of clerks. We like to receive bits of bee news, reports, explanations, questions, &c., &c., even chatty visiting letters, but they are very expensive when each one of three or four different clerks has to read such letters all through in order to be sure that the orders, mixed in along, are all properly attended to. Please remember this when making an order, and

let that be written out as plainly and concisely as possible, and, where your Express or Freight Office is of a different address from your Postoffice, please BE SURE to give both very distinctly, COUNTY and all. Then add on the other half of the sheet or on another sheet, whatever else you wish to write, and I assure you we shall receive it with pleasure, and if the order is not properly filled—why, you will not be to blame, at any rate.

IMPLEMENTS FOR THE APIARY.

We continually throw out or remodel every thing in our list when found in any way defective, and we offer nothing that we do not approve of and use in our own apiary.

We can ship promptly, by Freight, Express or Mail (none mailable except those designated,) goods mentioned in this list with but few exceptions. Hives, Extractors, &c., can be sent much cheaper by Freight, but in this case they should be ordered three or four weeks before needed, if the distance is considerable. During the months of April, May, and June, orders may sometimes be delayed several days, but our customers may rely upon receiving notice at once on receipt of all remittances.

At the prices given in this list, cash must accompany every order, unless we have some personal acquaintance with you; the sending of goods C. O. D. entails the additional expense of returning the money as follows: 15c for one express line; 30c for two lines, and 45c for three different express lines, which must be paid by the party receiving the goods. The above could be sent by P. O. Order for 10 cents, but still we will send them C. O. D. when desired, with the exception of such perishable property as bees and queens. Orders for frames or hives, of dimensions differing from those named, will be liable to some additional delay, especially during the "honey months."

EXPRESS AND FREIGHT CHARGES.

We can prepay Express charges when desired to do so, and I believe, as a general thing, secures a little lower rate. This refers particularly to the Am., Adams, U. S., and Union Cos.; rates through the Southern Exp. Cos. are very high, and we have not been able to make any arrangement to prepay through them. If goods are not wanted at once, they can be sent by freight at one-half, or still less rates; but it is very unwise to wait until they are wanted and then order by freight. As an illustration of charges we have taken 1 lb., 3 lbs., and an extractor weighing about 40 pounds. If your express office is not on a main line, from 25 to 30 cents more must be added. This is rather indelicate, we are aware, but it is the best we can do.

Hives in the flat and other heavy goods can be sent by freight third class, at the rates per 100 lbs. shown in third-class column. Extractors, and hives set up, except the Simplicity, go at double first-class rates. No package at third-class freight at rates given, unless 200 lbs. or over.

RATE AT WHICH WE CAN GUARANTEE EXPRESS.			FREIGHT.	
1-lb. Package.	3-lb. Pkg.	Extractor. 30 lbs.	3d Class. Per 100.	1st Per 100.
San Francisco.....	1 20	5 20	5 90	4 55
New Orleans.....	70	2 15	2 45	80
Galveston.....	65	2 05	3 38	1 15
Cincinnati.....	25	70	80	23
Philadelphia.....	25	95	1 05	49
Baltimore.....	25	30	1 00	46
Washington.....	25	40	1 10	49
Boston.....	25	45	1 25	54
New York.....	25	45	1 25	49
Buffalo.....	25	40	90	25
St. Louis.....	25	45	1 40	50
Chicago.....	25	40	1 10	39
St. Paul.....	25	60	2 15	59
Rochester.....	25	40	1 10	29
Milwaukee.....	25	45	1 35	29
Detroit.....	25	40	90	35
Indianapolis.....	25	40	1 00	35

It will be a great saving to you to have your freight sent to, or via, your nearest large town or city.

Unless you give the COUNTY in which you reside, as well as the State, I can not be responsible for errors in shipping goods, nor where names and addresses are so badly written our clerks can not make them out correctly. The small gummed labels we furnish at \$1.00 per 1000, containing your full name address and occupation, would save both you and us, "a world of trouble."

HOW TO SEND MONEY.

If you do not wish to take any risk of loss, send P. O. Order, registered letter, or get a N. Y. Draft. I have been in the habit of advising small amounts, say \$2.00 and under, without registering; and when losses have occurred, I have sent the goods and asked for half price. I am sorry to say, my friends, I can do so no

more. The following letter from one of the officials of the Postoffice Department explains the reason:

Friend Root.—The Post-Office Department advises everybody sending money by mail to register or send by money order. Several thousand men are employed in the postal service, nearly all young men, and experience has demonstrated the fact that it is wise not to trust them, as now and then one falls, and the punishment falls most heavily on a wife, child, or mother. We will do all we can to guard the mails, and find out the guilty, but it often takes months and years to do it. Can you not advise your customers to send by register or money order? Another point: people are tempted to claim that they sent money for the purpose of getting goods, in order that they may get goods for nothing. Several years ago, Mr. Vick advertised that all sums under \$1.50 could be sent at his risk, and that persons remitting and failing to get seeds could notify him of the fact, and he would fill the order. In less than three months, he had several thousand alleged losses of less than \$1.50 each.

C. E. HENRY,
Special agent P. O. D.

Cleveland, O., March 15, 1880.

For fractional parts of a dollar, CLEAN postage stamps are acceptable, and we can use them of any denomination, but please don't send stamps unless you are obliged to. ONE CENT STAMPS are preferred, but we can use others if you cannot get them conveniently.

Canada Stamps we can use also, where more convenient. Canada money we can also use as par.

If our foreign friends will send us Postal Orders, payable at Medina, Ohio, it will save them about 5 per cent, that has to be paid for exchange, where they send foreign drafts, Bank of England notes, etc., etc.

We always consider it an especial favor to have customers inform us by postal card whether goods are satisfactory; whether our mode of packing is efficient; time taken in transit; whether Express or Freight charges were reasonable; etc., etc.

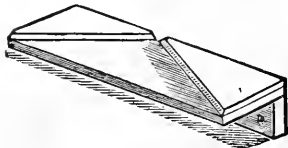
Respectfully, A. I. ROOT, Medina, O.

IMPLEMENTS, AND SUPPLIES FOR THE APIARY.

Mailable articles are designated in the left hand column of figures; the figures giving the amount of postage required.

To Canada, merchandise by mail is limited to 8 1/2 oz., and nothing can be sent for less than 10 cts. postage, in addition to price of the article.

ALIGHTING BOARDS.



ALIGHTING BOARD, DETACHABLE.

These are intended especially for hives with a loose bottom, but can be used on almost any hive. They are fastened to the bottom board with a couple of screws. The entrance is closed or enlarged at pleasure, by moving the hive backward or forward. They look rather pretty on the Simplicity Hive, and are very convenient, but I do not think them absolutely essential. See HIVES. Price 10cts.; by mail, 25 cents. By Express or Freight, 85c for 10; or \$8 per 100.

BARRELS FOR HONEY,

Price, \$2.50; the same waxed and painted, \$3.50. For directions for waxing and painting, and all about barrels and barreling honey, see A B C.

BASSWOOD (OR LINDEN) TREES.

One foot and under, per one hundred..... \$2 00
Same by mail..... 3 00
One foot to five feet, per one hundred..... 5 00
Five feet to ten feet, per one hundred..... 10 00

These will be taken directly from the forest as wanted, and if planted any time after the leaves have fallen, until the ground freezes, not one in one hundred should fail to grow. They can also be sent during the months of March, April, and May; and spring planting is preferable. For a description of the basswood, with engraving, see A B C.

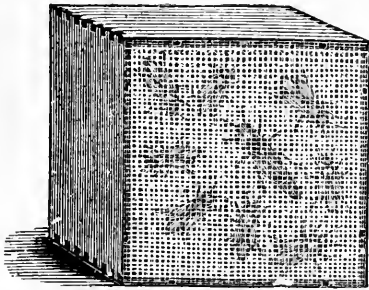
WHITEWOOD, or tulip (also called poplar in the South) over 1 foot, same price as basswood.

BEES, QUEENS, ETC.

My friends, it is quite a difficult matter to give prices on Bees, Queens, Nuclei, Full Colonies, etc., for all combinations, and for all seasons of the year; but, if you will be patient, I will try to make it plain. As the most important personage, we will take first,

QUEENS.

As by far the greater part of the queens sold are the dollar queens, we will take them as a standard. These are queens taken from an imported mother, and taken from the hive as soon as they have been laying 3 or 4 days or a week; and they are called dollar queens, because the price is \$1.00—each, attendant bees, and all included. **NOW TAKE NOTICE.** These queens can only be furnished for a dollar after July 1st, and during the months of July, Aug., Sept., and Oct. In Nov. one-fourth more; in December, one-half more; in January, February, March and April, double price. In May again one-half more; and in June, one-fourth more. It is doubtful about our being able to furnish dollar queens during the months of Dec., Jan., Feb., and March, but if we can obtain them from the South or otherwise, the prices will be as above.



QUEEN IN A SECTION BOX WITH $\frac{1}{2}$ POUND OF BEES, READY TO SHIP BY EXPRESS.

Now, bearing in mind the above, the price of a Hybrid Queen (a pure queen found, by testing, to have met a black drone) will be half as much as for a dollar queen; and the price of a Black or Common Queen will be one-fourth as much, when we happen to have them on hand.

The price of a Tested Queen will be twice that of a dollar queen for the ordinary run of them; but, if we select the largest and yellowest and those that produce the handsomest bees, the price will be

three times that of a dollar queen. For definition of Tested Queen, see A B C.



QUEEN WITH $\frac{1}{2}$ POUND OF BEES READY TO SHIP.

The price of an imported Queen will be five times that of a dollar queen, for the ordinary run of them as received from Italy; if we select the best, as we do with our bees, Tested Queens, the price will be six times that of a dollar queen; the price of the poorest, darkest, smallest, etc., will be four times that of a dollar queen. I believe this covers the price of queens the year round.

PRICES OF BEES WITH QUEEN.

As nearly as we can make out there are 2000 bees in a $\frac{1}{2}$ lb., and we have figured the price at exactly that of a dollar queen. At this price, they should be young Italians, not old, blacks, or hybrids.

Price of cage, as above, prepared ready for the bees, 15 c.; the same for a whole pound of bees, 25 c. If wanted by mail, double above prices.

When we sell bees the cage is always included.

If you purchase a pound of bees, or even a half pound with your queen, you can turn them all loose on a comb of brood from one of your own hives, and thus save all trouble of introducing.

But suppose our customer has no bees, and wishes to buy the frame of brood to go with his queen and bees.

PRICE OF A FRAME OF BROOD.

We have fixed the price of a frame of brood also, at exactly that of a dollar queen.

Now observe that Queens, Bees, and Brood vary in price with the months of the year. With the prices given on these, you can readily figure the value, or the cost, of any colony, by taking the cost of hives, etc., from the price list on hives. To make it a little plainer, we will recapitulate by means of the table below.

REMARKS IN REGARD TO THE TABLE.

BLACK QUEENS.

Black queens we agree to furnish only when they happen to be on hand, or procurable. Of course, they can not be raised for the price mentioned. When buying black stocks, we cage and save the queens, and, with our present facilities, we can keep them safely in the office a month or two.

TABLE OF PRICES OF QUEENS, BEES, BROOD, &C., FOR EVERY MONTH IN THE YEAR.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
BLACK Queens	.50	.50	.50	.50	37½	31	25	25	25	25	31	37½
HYBRID "	1.00	1.00	1.00	1.00	.75	.62	.50	.50	.50	.50	.62	.75
UNTESTED "	2.00	2.00	2.00	2.00	1.50	1.25	1.00	1.00	1.00	1.00	1.25	1.50
TESTED "	4.00	4.00	4.00	4.00	3.00	2.50	2.00	2.00	2.00	2.00	2.50	3.00
SELECT "	6.00	6.00	6.00	6.00	4.50	3.75	3.00	3.00	3.00	3.00	3.75	4.50
INDIFFERENT Imported	8.00	8.00	8.00	8.00	6.00	5.00	4.00	4.00	4.00	4.00	5.00	6.00
FAIR Imported Queens	10.00	10.00	10.00	10.00	7.50	6.25	5.00	5.00	5.00	5.00	6.25	7.50
BEST " "	12.00	12.00	12.00	12.00	9.00	7.50	6.00	6.00	6.00	6.00	7.50	9.00
1-2 LB. OF BEES (no queen)	1.50	2.00	2.00	2.00	1.50	1.25	1.00	1.00	1.00	1.00	1.00	1.25
FRAME OF BROOD	1.50	2.00	2.00	2.00	1.50	1.25	1.00	1.00	1.00	1.00	1.00	1.25
TWO-FRAME NUCLEUS (No queen)	3.75	5.00	5.00	5.00	3.75	3.12	2.50	2.50	2.50	2.50	2.50	3.12
THREE-FRAME NUCLEUS (No queen)	6.75	9.00	9.00	9.00	6.75	5.62	4.50	4.50	4.50	4.50	5.62	6.75
COLONY OF BEES in 1 story Simp. hive (No queen)	15.00	20.00	20.00	20.00	15.00	12.50	10.00	10.00	10.00	10.00	10.00	

HYBRID QUEENS.

It is much the same way, with hybrid queens. I would say in favor of these, that, when reared from choice imported stock, they prove about equal for honey gatherers, to the full blood Italians.

UNTESTED OR DOLLAR QUEENS.

The dollar queens are always taken just as they come, and are never culled. Customers often ask us to pick out a large, yellow one for them. My friend, who would then have the small, dark ones? We can't do it for anybody, not even the Queen of England. If you want to pick, it must be done from the tested queens. Very small dark ones, when we have them, $\frac{1}{4}$ less; may prove equal to any for real "business."

TWO-DOLLAR TESTED QUEENS.

These are queens that produce good three banded workers, but are themselves darker or smaller than the \$3.00 queens, and may be a year old.

THREE-DOLLAR OR SELECT TESTED QUEENS.

The selected tested are the best queens we can pick out, in two apiaries of over 300 colonies,—large, yellow, young, good layers; their bees gentle, finely marked, and good workers. These queens are always taken from our own or neighbor H.'s apiary. If you pay for one of these, you may take your pick out of the whole apiary.

FOUR-DOLLAR INDIFFERENT IMPORTED QUEENS.

It were no more than fair to inform our friends that imported queens, as a rule, are small and dark. If you want a large-yellow queen, do not order an imported.

The "indifferent" imported queens are the darkest and smallest, and the poorest layers, when we have any such, but are to be good, serviceable queens. Many of them turn out to be equal to the best, when kept a whole season.

FIVE-DOLLAR FAIR IMPORTED QUEENS.

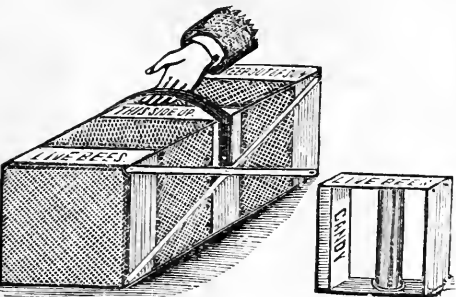
These are a fair average of those we import from Italy.

SIX-DOLLAR OR BEST IMPORTED QUEENS.

These are selected from our imported queens, as we select the \$3.00 tested ones.

CAGES FOR SHIPPING BEES.

Bees must of necessity be sent by express; none are allowed by mail, except the dozen or two that accompany the queen, and freight is altogether too slow.



CAGE FOR ONE POUND OF BEES.

Postage.] **PRICE LIST OF CAGES FOR BEES.**

3	$\frac{1}{2}$ lb., single section, no candy.	05
6	$\frac{1}{2}$ lb., 2 sections, no candy.	10
9	1 lb., 3 sections, no candy.	15

If filled with Good candy, add 5 cents to each section; and if wanted by mail, 3 cents more to each section.

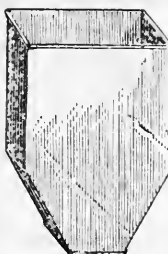
2. Tin water-bottles, for long shipments. 03

We put in from one to three of these bottles, according to distance, and quantity of bees. When distance is such that they will likely be received in 3 or 4 days, no water is needed; and it may be we shall succeed in getting them to stand a week without water. The smallest cage is an excellent one for sending a valuable queen in by express.



YUCCA BRUSH FOR BRUSHING BEES OFF THE COMBS AND TUNNEL.

COOZ'S BRUSH, for above purpose; for engraving see MARY GLEANINGS, 1883. Each, 15c; 10, \$1.25; 100, \$10.00. By mail, 3c each extra.



TIN TUNNEL FOR SHAKING THE BEES INTO THE ABOVE CAGES.

The tunnel is dropped, it should be set with its mouth on the ground, and the small end covered with the small cap, to keep robber bees from sucking up the new honey. The cages may hold more bees than the weight named, especially in cool weather; in fact, we often put $\frac{1}{2}$ lbs. in a 1-lb. cage; but if the weather is hot, it is not safe to put in more than 1 lb., and for very long voyages, we would put $\frac{1}{2}$ lb. in a 1-lb. cage.

ONE-HALF POUND OF BEES.

The $\frac{1}{2}$ lb. of bees, we endeavor to have made up of young Italians; but it is not always possible to do this, at all seasons of the year. Young bees can be used in so many ways, and it is such a very safe way of sending and introducing queens, that a large trade has now come out of it. If you purchase only a half pound of bees with your queen, and turn them loose on one or two of your own brood combs, when received, you have a fair, working, little colony at once, and the queen will go right to laying; for we put them up so that she sometimes keeps laying on the way, or during transit. Perhaps one-eighth of all the queens sold are lost in introducing; and, with the A B C class, I do not know but that it sometimes amounts to nearly one-fourth. With a $\frac{1}{2}$ lb. of bees, this loss is entirely done away.

FRAME OF ITALIAN BROOD.

Brood can not be sent without bees.

The value of a frame of Italian brood is a pretty hard matter to get at, but as it has been often questioned, I have tried my hand at it. As it is quite difficult to get a frame full of brood, and as it would be worth considerably more than a $\frac{1}{2}$ lb. of bees if we could, I have rated a comb fairly filled, such as you find in your hives in June,—a fair frame of brood. Perhaps one-third of the cells will be filled with honey and pollen. Estimating an L frame to contain a square foot of surface, this will give us about 100 square inches of brood, and will hatch out nearly 500 bees. It should be well worth a dollar, to one who is building up colonies.

TWO-FRAME NUCLEUS.

We expect to give, with a two frame nucleus, $\frac{1}{2}$ pound of bees, \$1.00, two frames partly filled with brood, \$1.00, and one nucleus hive, 50c. You are to select, from the price list, such a queen as you choose, and add the price of her to the price of the nucleus. A three frame nucleus is the same, with a whole pound of bees, and another comb partly filled with brood.

A FULL COLONY OF BEES.

A full colony of bees—what constitutes a full colony? Well, such full colonies as we send out, I think, contain about 3 lb. of bees, worth \$6.00; brood in perhaps 6 combs,—say enough in all to make 3 full ones, \$3.00; 7 other frames of comb and honey, worth 25c each, \$1.75; and a one story Simplicity hive, with bottom and cover, all well painted, (to say nothing of the sheets of wire cloth necessary to confine the bees in hot weather), \$1.00. The whole would amount to \$11.75; but, as a whole colony is somewhat of a wholesale offer, we will make the whole \$10.00, as we have it in the table. This is for a hive of bees and brood without any queen, and you can select the queen you wish from the table, and add the price of her to the \$10.00. If you want them in a chaff hive, order them just as above, and your chaff hive by freight, as it is rather heavy to be sent by express as bees must necessarily be, and, when you get them, just lift out the bees and set them in the chaff hive.

GUARANTEE.

Lastly, all bees, queens, etc., are to be safely delivered at your nearest express or post office (you

paying all express charges), and, if they starve, or get smashed up or are delayed, I agree to send more until they do come all right, if I have to send a half dozen times. Never return bees or queens unless you are asked to do so. Queens are allowed by mail, but bees can in no case be sent by mail except the dozen or so that go with the queen. It will hardly do to risk them by mail in the North, before May, or after October. All claims must be made inside of ten days after queens or bees are received; tested queens, forty days. We will guarantee to any part of the U. S., except Oregon. We will send them there when desired, and put them up the best we know how, but can not guarantee them.

CYPRIAN AND HOLY-LAND QUEENS.

Prices of above, reared in separate apiaries near us, one-fourth more than Italians. At present they bid fair to be an improvement, especially the Holy-Lands.

Until further notice, we will allow the following discounts on tested queens, pounds of bees or frames of brood: On a purchase of \$10.00 or over, 10 per cent off; \$25.00 or over, 15 per cent off, and \$50.00 or over, 25 per cent off. The best we can do on dollar queens is 10 per cent off, for an order of 10 or more. Besides the above, 10 per cent will be deducted to those who come and get their bees and queens.

BEE-ENTRANCE GUARDS, 'JONES'S.'

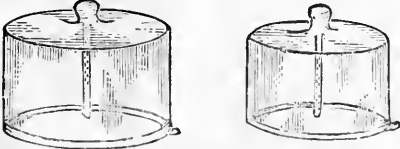


These are to admit workers, but exclude drones. To use, after the drones are all out fix them over the entrance, and at night the drones can be destroyed. Price 10 c.; by mail, 12; 10 for 90 cts., or \$8.00 per 100.

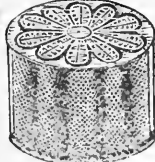
BEE-HUNTING BOX,

With printed instructions (Notice—by mail, 35c) ... 25

BELL GLASSES FOR HONEY.



We can furnish bell glasses for honey, such as shown, in three sizes—4 inches deep and 8 inches wide, 50c; 4 in. deep and 9 inches wide, 75c; 5 in. deep and 10 inches wide, \$1.00. These prices seem high, but they are made of nice stout glass, and are so heavy as not to be in much danger for breaking. If many are wanted, we can do a little better by having them shipped from the factory in Pittsburgh.



'BELL GLASS FILLED WITH HONEY.'

BEE-KEEPER'S MEDLEY.

This is a fine large photograph, size 11x14, containing excellent large photographs of both Langstroth and Quinby, besides good sized pictures of almost all the prominent bee-keepers, and writers for the Bee Journals. The name of each is plainly printed on it, and as it contains over 150 pictures, it makes a very pleasant study, especially after having followed these friends in their writings as we have many of them, for years. Think of having a good photo of Hetherington, Grimm, Doolittle, Bolin, Prof. Cook, Dadant, Dean, Davis, Gallup, Katie Grimm, Mrs. Harrison, Dr. Hamlin, Muth, Nellis, Nesbit, Wagner, Prof. Kirtland, Parsons, Carey, and enough more to nearly fill this page, all sent safely for only \$1.00.

An excellent Photograph of Mr. Langstroth alone, taken from life, suitable for an 8 x 10 frame, will be mailed for 50 c.

BINDER,

Emerson's, for GLEANINGS..... 50

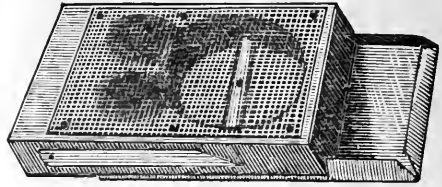
BURLAP,

For making chaff cushions, and covering bees in winter 40 in. wide: per yard, 10c; 10 yds., 9c; by the piece of 200 yds., 8c per yard. (See ENAMELED CLOTH and MAT FOR COVERING FRAMES.

CANDY FOR BEES.

Stir pure powdered sugar in good thick honey until it makes a good stiff dough. Let it stand until hard enough so it will not run down among the bees when laid over the cluster.

CAGES FOR QUEENS.



These are made of wood, and a sufficient amount of the candy above is put into the cage to last the bees and queen a week or two. Price of cage complete, 5c, or 45 cents for ten. If wanted by mail, add 3c each extra. Without candy or wire cloth, one-half the above prices, or \$2.00 per 100. Water bottles, for long shipment, added, for 2c each cage extra. Grooved boards for tacking on for mailing (directions for introducing pasted on them) 50c per 100. By mail, 75c per 100. Directions for introducing alone, 15c per 100, or \$1.00 per 1000. Water bottles, 15c for 10; or \$1.25 per 100.

CHAFF CUSHIONS.

Complete, 25 c.; without the chaff, 15 c. The latter can be sent by mail for 25 c., including postage. Sifted chaff, per bushel, 10 c.

CHEESE CLOTH,

For strainers, per yard (if sent by mail 8c)..... 5

CLIMBERS,

For Bee Hunting. (Sent by mail for 60 c. extra). 2 50

CIRCULAR SAWS FOR MAKING BEE HIVES.

After having tested saws of many different makers, we have decided that the "Simonds" saws, made without hammering, are decidedly superior to saws made by any other process. The temper is perfectly even, and while they hold an edge beautifully they file nicely, and stand up to their work, in spite of knots or cross grained stuff, better than any other. They give more work, better work, and do it with less power. Saws, as mentioned below, can be sent by return mail; if you wish a different sized hole, there may be some delay.

Postage	Diameter.	Thickness.	Size of Hole.	Price	Extra for each
				each	additional
5c	4 inch	19 gauge	1	\$0.65	\$0.03
7c	5 "	19 "	1	.75	.04
10c	6 "	18 "	1	.90	.05
11c	7 "	18 "	1	1.05	.06
14c	8 "	18 "	1	1.30	.08
15c	9 "	17 "	1	1.50	.10
26c	10 "	16 "	1	1.90	.13
42c	12 "	15 "	1	2.45	.17

Please state whether you wish rip or cut-off saws, and if you want them set and sharpened ready for use, send 5c, additional, for every inch in diameter.

Eight inch saws half way between rip and cut-off, for sawing bevels or mitres, kept in stock at above prices.

DOVETAILING SAWS FOR SECTION BOXES.

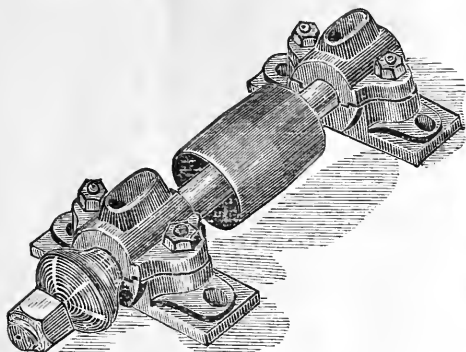
4 inch, for Barnes' foot power saw, 3/4 in. hole (by mail 6c. extra)..... \$1 00

5 inch, for the heavier mandrel, 1 in. hole..... 1 10

As many as 7 or 8 of the latter can be run on one mandrel, but with the foot power saw, not more than 1, or 2 at the most. Steel washers accurately ground to go between saws, 40c each.

For the small saws, 4, 5, 6, and 7 inch, we sell a great many of the small foot power saw mandrels. These are babbetted, have a 5/8 inch steel shaft 9 inches long, a 2x2 pulley, like cut, 2 inch flange, and are to hold saws with a 1 inch hole in the center. Although they run surprisingly easy, and are models of simplicity, I would prefer the heavier mandrel, where any other power is to be used than the foot power. The price is \$5.00, and they can be sent by mail for 60c. more.

The larger mandrel, of which we give an engraving, holds saws with a 1 inch hole in the center, and has a 2½ inch pulley, with a 3¼ inch face; a shaft 1 inch in diameter, and 14 inches long; and a flange 2½ inches in diameter. This mandrel runs in babbet metal, and is so fitted, that there is absolutely no end shake, and is suitable for saws 8, 9, and even 10 inches in diameter. The price is \$7.00, and it can be sent by either express or freight.



OUR \$7.00 CIRCULAR-SAW MANDREL.



OUR \$2.50 SAW MANDREL.

This is a cheaper mandrel especially for foot-power saws, and is run on steel points. It has a ½ in. steel shaft, 7 in. long, pulley with 1½ in. face, 2 in. in diameter, 2 in. flange, and holds saws with 1 in. hole in center. Price \$2.50, postage 48c extra.

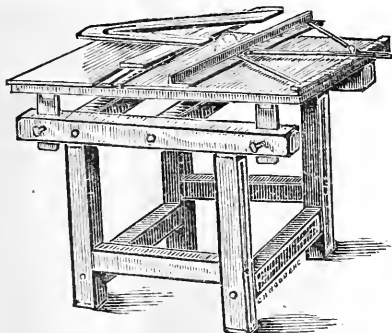
STAR SAW SETS.

Price 75c; if wanted by mail, add 30c.

These we consider the best for circular or any other saws. Here is what Disston says of it:—

We are anxious to introduce the Star Saw-set, knowing it to be the best one by long odds in the market, and that its introduction will save many good saws from being spoiled. Philadelphia, Feb. 2, 1881. H. Disston & Sons.

Printed directions with each saw set.



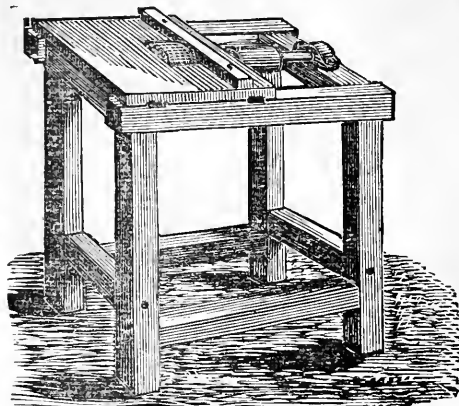
SAW TABLE FOR HIVE-MAKING.

These are for power, and include a \$7.00 mandrel, two 8-inch saws, cut-off and parallel gauge, all well and substantially made. Price \$25.00.

MACHINERY FOR MAKING SECTION BOXES.

There is such a demand for Saws and Mandrels for this purpose, that I have been obliged to have them made expressly for the work. The A B C book considers the whole matter. A mandrel, suitable for holding the whole 9 saws at once, must be very strong and heavy, or you will have much trouble with the bearings getting hot. Such a mandrel will cost \$10.00, and including 5 in. saws and washers, \$23.00. For only 4 saws, a lighter mandrel will do, at \$7.00, and the whole rig will cost \$12.20, with 4 inch saws. A single saw can be run on the light

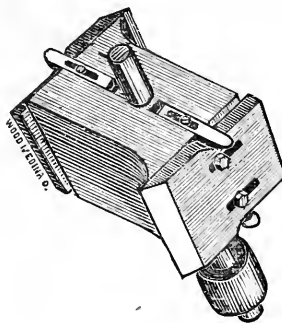
\$5.00 mandrel, and the entire expense will be only \$6.00. The latter can be sent by mail, for 70c. extra.



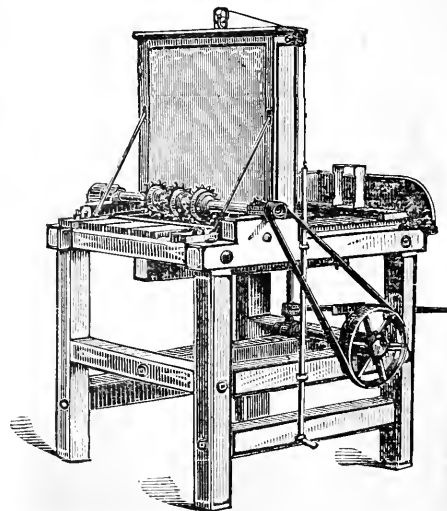
DOVETAILING MACHINE FOR CUTTING THE GROOVES IN THE ENDS OF THE PLANK. PRICE, \$30.00.

CUTTER - HEAD, FOR MAKING THE ENTRANCES TO THE BOXES.

See adjoining cut.



Complete with table, \$25.00; without table, \$18.00. We have discarded the small cutter heads, they require sharpening so often. A wobble saw is better, but a thick saw or saws, still better for bee-hive frame work—such as seen on page 14.



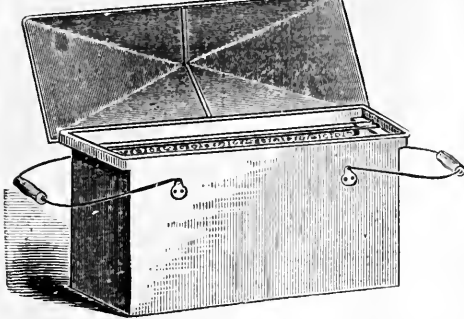
SECTION MACHINE, GRAY'S IMPROVED, FOR MAKING THE ALL-IN-ONE-PIECE SECTIONS.

Complete machine for making Gray's all-in-one-section, \$75.00. The grooving saws above are needed with this, and also a cutter-head.

COMBS,

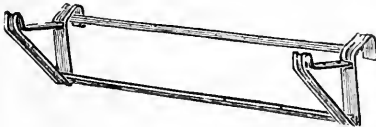
In METAL - CORNERED frames—either drone or worker, 25c; WIRE strengthened (see p. 9) 30c each.

COMB-BUCKET,



Holds five frames, secure from dust or robbers, and catches all the drip; price \$1.25. This is for S. frames, we will make them to order for other frames, for \$1.50

COMB-HOLDER.



This is to be hooked over the edge of a Simplicity hive, and then when the first frame is lifted out, you are to hang it on the two projecting arms. These are slightly turned up, as you will notice, that the frame may not be easily pulled or slipped off, and then if you are disposed, you can slide the remaining frames along, so as to get at any particular one, with ease; or if you wish to cage a queen, or to introduce a queen, you can have both hands to work with, while your frame is securely held just before you as you want it, with no tumbling down, or getting the new combs out of true. They are made of folded tins, and the price is 25c; if sent by mail, 35c. This is for L. frames; for other frames, 10c extra.

COMB FOUNDATION.

PURE BEESWAX.

A lb. of wax will make about 350 starters $3\frac{1}{2} \times 3\frac{1}{2}$ such as we use in our section boxes, or about 6 sheets for the L. frames, or about 4 sheets 12x18.

The fdn. is kept in stock, in sheets of three different sizes, viz; 12x18 inches, $8\frac{1}{2} \times 16\frac{1}{2}$ inches [exact size needed for L. brood frames], and $8\frac{1}{2} \times 17\frac{1}{4}$ [exact size for wired L. frames, see WIRED FRAME] packed in boxes of 1, 3, 5, 10, and 25 lbs.

DRONE OR WORKER CELLS.

(A box of fdn. containing 2 oz., including samples of all the different kinds, will be sent by mail for 10 cents; or SMALL samples of each will be sent free).

1 to 25 pounds, per pound.....	47c
25 to 50 " " " "	46c
50 to 100 " " " "	45c
100 to 500 " " " "	43c
500 to 1000 " " " "	41c
1000 pounds or more " "	40c

Packed in neat wooden boxes—paper between every two sheets.

If wanted by mail, add 25c per lb. for boxing and postage, on any quantity less than 2 lb.; over 2 lb., add 20c for boxing and postage. * Now, all of you that will order in our regular sized sheets, $8\frac{1}{2} \times 16\frac{1}{2}$, or $8\frac{1}{2} \times 17\frac{1}{4}$, may have it for 1c per lb. less. If you will also order it in our regular sized boxes, of 5, 10, or 25 lb., you may deduct 1c more per lb. Thus:—1 lb. by mail, regular size will be 70c; 3 lb., \$1.95.

By freight or express:	
3 lbs. regular sizes will be.....	\$1 35
5 " " " "	2 25
10 " " " "	4 50
25 " " " "	11 00

There are 5 cells to the inch, and one pound of wax makes from 4 to 9 square feet of surface. The thinnest will be used by the bees, but is not made into comb as quickly as the heavier, which has a

*12x18' can not be sent safely by mail, in less quantities than a 3 lb. package, and we can not put up less than 1 lb., any size.

greater depth of cell. A box contains different thicknesses; we can not well make it all exactly of one thickness.

THE COLOR OF WAX FOR FOUNDATION.

Now a work in regard to the color of wax: It is well known, I believe, that very dark wax is just as good for brood-combs, as any thing else; but for all that, some will complain, unless all the fdn. is of a bright yellow. To fix this all pleasantly, we will, in the future, furnish fdn. for brood-combs, made of the darkest wax, for from 3 to 5 cts. per lb. less than our regular list prices. If you want to take advantage of this offer, give us a little time ahead; for we do not always have dark wax on hand.

Very thin drone or worker fdn. for comb honey, 10 c. per lb. extra. This we intend to run at least 10 square ft. to the pound, and it will be made in strips from 3 to 5 inches wide. Although drone starters are worked out the fastest, and are used entirely by us, as there is a difference of opinion in the matter, we will send all worker, unless you order drone.

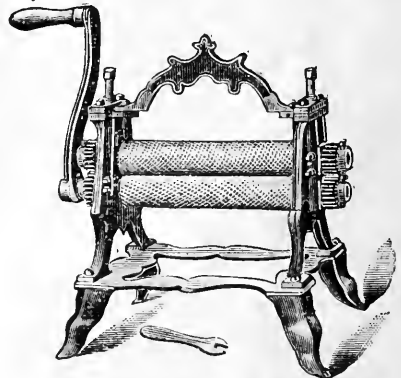
At present date the demand is strongly in favor of having the fdn. fill the sections, and we will keep constantly in stock strips of above just right for cutting the 3 lb. sections, $3\frac{1}{2} \times 3\frac{1}{2}$. This starter fdn. is also in 1, 3, 5, and 10 lb. boxes.

Wax will be worked up to order, and cut into sheets of any size desired, for 20c per lb. in quantities of 100 lbs. or more. For smaller lots, you will have to sell us your wax, and buy fdn. at above prices.

We will pay for bright yellow wax, price quoted in GLEANINGS every month.

At above prices we can pay no express or freight charges either way.

COMB-FOUNDATION MACHINES.



OUR TWENTY-FIVE DOLLAR 10-INCH MACHINE.

The machines mentioned below all have the new cell that comes from the rolls so easily, and I consider them equal to any machines made at any price:—

The 12 and 14 inch mills are back-gear'd; the others, the crank is attached directly to the roll, as in the cut above.

14-inch mill.....	\$50 00
12-inch mill.....	40 00
10-inch mill.....	25 00
8-inch mill.....	15 00
4-inch mill.....	10 00

We especially recommend the 10-inch mill for the Langstroth frame.

Double Boiler for above machines will cost 10 per cent of price of mill.

We have sold our machines not only all over the U. S., but in England, France, Germany, Austria, Prussia, Australia, New Zealand, etc., and we can give references in regard to them from all these places.

The above prices are for cells five to the inch. If drone size is wanted, add ten per cent to above prices. The machines are all ready for use, and full instructions will be sent to each purchaser.

DIPPING BOARDS, DIRECTIONS FOR MAKING, ETC.

Make your dipping tank 4x12 inches and 2 feet deep; set it into a larger one with water between to regulate the temperature. Melt your wax in another boiler (a common wash boiler will do), have

water in to prevent burning the wax, dip into the deep tank as fast as the wax is melted. Make 4 or 5 thin boards of seasoned maple, the exact width when dry, you want your sheets. We use them 36 inches long, as this makes two lengths for the L. frame. They should be $\frac{1}{4}$ or $\frac{3}{8}$ inches thick, and the edges rounded off to a blunt knife-edge. Have them thoroughly water-soaked before using; the boards will swell as much as the sheets will shrink. Wet the boards before dipping, but shake off all the water you can. Put the board in the wax as deep as it will go, and as soon as the wax stops dropping, dip the other end down. Dip all over twice for brood foundation and once for boxes, hold the board perfectly plumb while cooling; as soon as the wax stops dropping after the last dip, set it one side and take another board. By the time you have dipped four the first will be ready to peel off. If the boards are smooth and edges perfectly square, your sheets will need no trimming.* When the wax begins to scum around the edges of the tank the temperature is right. If sheets crack in cooling, your wax is too hot.

Thin paste made of cheap starch makes the best lubricator for the rolls that I know of.

We will furnish dipping plates, as described above, made from clear straight-grained maple, for any width, for 4 cents per inch in width. For starters, boards 4 or 5 inches wide are used, and two of them may be dipped in the tank at once. For Simplicity sections, each board will need to be about $3\frac{1}{2}$ inches, and every dipping makes 4 narrow sheets.

HOW TO FASTEN SHEETS OF FDN. IN THE BROOD FRAMES.

The melted-wax plan.

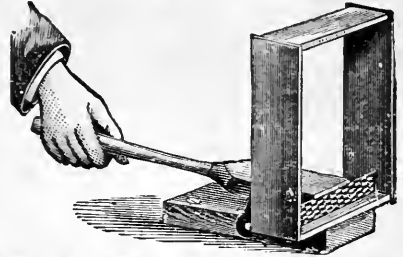
Set a common small lamp in a tall box with one open side, having coarse wire cloth nailed over the top. Place on the wire cloth a cup containing wax. Keep the wax just melted, by turning the lamp wick up or down. Now, with a pencil brush, you can put the melted wax nearly just where you want it. Fit a board so that it will slip into your frame just half way, and lay your sheet of fdn. on this, with its upper edge close against the top bar; brush the wax along the joint, slip out the board and bang the frame in a hive. After a little practice you will do them quite rapidly, and think it is just fun.

The plan we prefer.

If wax is rubbed hard against a piece of dry wood, at ordinary temperatures, it will adhere almost as well as if put on in a melted state. Therefore, all we have to do to fasten it in the frames, is to lay it in place, and press the edge against the comb guide with the fingers, until it sticks moderately. Now take a knife or screw-driver, and rub it down hard. To prevent the wax from sticking to the tool, dip it in either starch or honey; we use the latter because it is handier. One corner of the tool should go clear down to the wood, at the last stroke, to make a "sure thing" of it. The fdn. should reach within $\frac{1}{8}$ inch of the end bars, and within $\frac{1}{2}$, as a general rule, of the bottom bar. This space is needed to allow the sheets to stretch as it is being worked out, which it always does more or less. Some lots of wax will stretch scarcely perceptibly, while others will to the extent we have mentioned; and as it is desirable to have the sheet hang clear of the bottom bar when the cells are drawn out full length, we think best to give below the amount of space we have mentioned. The reason is that the combs will bulge, if there is any stretching after they have touched the bottom bar. To put the sheets in rapidly, you will need a board cut so as to just fit inside the frame, and reach up as far as the comb guide. Lay the sheet on this, close up to the top bar, and stroke it down to the comb guide, as we have directed. If your frames are made without a comb guide, you can fasten the sheet to the top bar in the same way, and then give it a quarter turn, so that it will hang straight down. As fast as the frames are filled, they should be hung in a hive, to be secure from injury. If you do not make the above plan work to suit you, you can fasten the sheets by tacking a strip of wood about $\frac{1}{2}$ by $\frac{3}{8}$ into the top bar, while the upper edge of the sheet is between them; this strip should be put on in such a way that the fdn. hangs straight down under the center of the top bar.

* As often as the boards get roughened by use, dry and sand paper them.

THE MOST EXPEDITIOUS WAY OF FASTENING FDN. IN THE SECTION BOXES, AND IN ANY KIND OF HONEY BOXES.

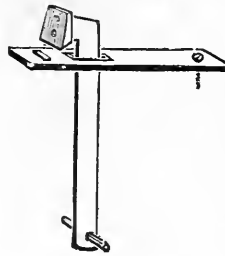


PARREY'S MACHINE FOR FASTENING STARTERS IN SECTION BOXES.

Directions for using:—Fasten machine to a bench or table; put a little honey on point of lever where it touches the foundation; slide box under lever, against stop; put foundation under $\frac{1}{8}$ inch; raise back end of lever at same time turning the piece of foundation up against end of lever; slide lever off the foundation, which movement fastens it firmly to the box. With a little practice the machine can be made to work very satisfactorily.

Price 25c for our Simplicity section. By mail, 40c. If you want a larger size, we shall have to charge about 35 cents, because it is so much more trouble to make an odd size, one at a time. Postage on odd size, 25c. I confess I am very glad to leave out the melted wax, for I always feared some of you would daub it about.

CLARE'S STARTER MACHINE.



This is to be worked by the foot, thus leaving both hands at liberty. Price:—For Simplicity sections 50 cts.; other sizes, 60 cts. If sent by mail, 35 cts. extra. This last machine is by far the best.

DIRECTIONS.

As the presser sinks the fdn. into the wood, draw one side of the section forward a little, and this drawing motion rubs the wax into the wood.

WIRED FRAMES OF FOUNDATION.

These, as you will see from the cut, cannot sag, and the comb cannot break out, in either extremely hot, or extremely cold weather. The fdn. fills the frame completely, and the diagonal wires make it impossible for either the top or bottom bar to sag, even with the greatest weight of honey which a frame may ever contain. Besides all this, the whole frame is made very much lighter than any ordinary frame.

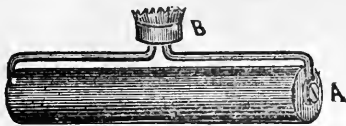


The wire used is No. 30, tinned, iron wire, and about 8 feet are required to a frame. The place of the central wire, is taken by a light, stiff bar of folded tin. To put in the wire, double it in the middle, and start from the bottom of the folded tin strip; carry both ends to the upper outside corners, one to each; then bring the ends of the wire each over on the top bar, and down through the first hole; then under the bottom bar, toward the centre, and up through the top bar again; then down through the bottom bar, and finish by twisting the ends together at the point of starting. The diagonal wires (which were first suggested by L. W. Betts, Milton, Delaware), should be drawn tight enough to make the bottom bar slightly crowning; when the wire is all in, spring in the bar of tin, and you are done.

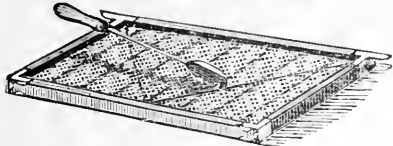
TO PUT IN THE FDN.

Cut the sheets to just fill the inside of the frame, warm them in the sun, or near a stove, lay them in

the frame on the wires, and imbed the wires by running over them the roller shown below.



BLOODS' ROLLER FOR PUTTING FDN. INTO WIRED FRAMES. PRICE, 15c; BY MAIL, 20 c.

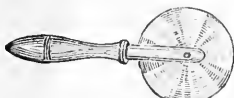


MANNER OF IMBEDDING THE WIRE IN THE FDN.

We have been doing this with a heated iron, as shown in the cut, but have just found that a common carpet-stretcher is better and quicker. It is not heated, but the wires are simply pressed into the wax by the points. We can sell a carpet-stretcher, handled ready for use, for 15 c.; by mail, 25 c. Dip the points in starch, when using.

PRICES OF THE WIRED FRAMES, PER HUNDRED.

Frames filled with fdn. ready to hang in the hive (L. size).....	\$18 00
Frames without fdn., as shown in the cut.....	5 00
The same in the flat, wood pierced for the wires, wire and tin bars included.....	4 00
Per thousand, \$35.00.	
For any other than the L. frames, add $\frac{1}{4}$ to above prices. All-wood frs., \$1.75 per 100 less than above.	
No. 30, tinned wire, per lb. (enough for 175 frames), (by mail, 18 c. extra).....	25
The same in 1 oz. coils, each, 3 c.; if sent by mail, add 2 c. each extra.	
For unbroken coils, as they come from the factory, weighing from 5 to 10 lbs. each, 20c per lb.	
Bars of folded tin, per hundred, 40c; per 1000	\$3 50



CARLIN'S FDN. CUTTER.

Small size, with tin wheel, 10c.; large size, with steel wheel, 75c. If wanted by mail, add 2c. for the former, and 5c. for the latter. Although these are very convenient for cutting a great number of small pieces, our hands have rather preferred for larger work, to cut a board the size wanted, and lay it on a pile of a dozen sheets or more, then with a *very sharp*, round pointed, butcher knife, they cut with repeated strokes through the whole at once, clear round the board. If the wax is neither too cold nor too hot, you can, with practice, do it rapidly and nicely. None of the scraps need be wasted, for you can use, in the section boxes, pieces of all shapes and sizes. Round-pointed butcher knife (fine steel), as above, 10c.; by mail, 15 c.

DEXTRINE,

For gumming honey-labels, and for pasting labels on wood, tin, etc. will stick and dry instantly. This is the substance used on postage-stamps, and by Express companies for putting on their labels, etc. To use, dissolve it in a little hot water, and apply with a brush, brushing the gum over the label, as well as under it. Price per oz., 3 c.; per lb., 20c; five lbs., 18c; 10 lbs., 15c. If wanted by mail, add 1c per oz. for postage. Price of brush, 5c; by mail, 7c.

DIVISION BOARDS.

CHAFF CUSHION DIVISION BOARD.

These are made of thin wood, packed with chaff, and have cloth cushion bottom and ends, that they may fit closely in any hive, and be easily removable. Price, 20c each; per hundred, \$17.50. If wanted by mail, 40c each must be sent for postage. Price in flat without chaff, 10c, postage 25c; per hundred, in the Bat, \$9.00.

PLAIN DIVISION BOARDS: NO CHAFF.

Complete, ready for use, 10c; in the flat, 8c; in lots of 25 or more, 6c.

DUCK,

For covering frames and for feeders, 29 inches

wide, per yard, 20c. If ordered by mail, send 12c per yard extra for postage.

ELECTROTYPES.

We can furnish electrotypes of any of the engravings in this price list, GLEANINGS, or the A B C, for 25c per square inch. If sent by mail, add 10 per cent to the price, for postage. To measure an engraving, you are to take the dimensions of the blank paper around it. None furnished for less than 25c. Can furnish *cliches* (the mere shell of copper, no block), for half above prices.

ELECTROTYPES OF QUEENS.



Price 35c.



Price 25c.

EMERY WHEELS FOR GUMMING CIRCULAR SAWS.

These are very valuable for a great variety of other purposes, such as sharpening all kinds of wood cutting tools, cutter heads, grinding and polishing, cutting tempered steel etc. etc. We give below the prices of such wheels as are most desirable for the above mentioned uses for the Barnes' saws.

The best wheel for the *small* circular saws is 3x $\frac{3}{4}$ -x3-16, and is made to order especially for us. Price 40c; by mail 44c. Double thickness ($\frac{3}{4}$), 45c, by mail 50c.

ENAMELED CLOTH.

This is preferred by many to anything else, for covering the frames, before the chaff cushions are put over the bees. I have seldom known the bees to bite through it, and the surface is so smooth and glossy, they put very little propolis on it. If combs are attached to it, it can be peeled from them perfectly clean. It is also so thin and light, that, if it is spread over a bee, he can readily crawl out from under it without injury. Price per yard, 45 inches wide, 25c; if a whole piece of 12 yards is taken, 20 c.; if ordered by mail, send 15c per yard extra for postage.

TIN-LINED SHEETS OF ENAMELED CLOTH.

These are just right for the Simplicity and chaff hives; price, 10 cts. each, or 90 cts. for 10. If sent by mail, 5 cts. more each for postage. Per hundred, by express or freight, \$8.00. Although the mats (see MATS) are cheaper, we greatly prefer these in hives that are to be opened often, as in queen-rearing, etc., but the mats seem better for wintering.

EXPANSIVE BITS.

These are especially handy for making queen-cages, but as they will bore any-sized hole you wish, are very valuable for many purposes. No. 1, boring from $\frac{1}{2}$ to 2 inches, \$1.75; No. 2, boring from $\frac{3}{8}$ to 3 in., \$2.50. Postage 5 and 10 c. respectively.

EXTRACTORS.

One important point is that all machines, to work to the best advantage, should be so made that the frame may hang in them just as it hangs in the hive. It we except the S. and Q. frames, and all having a length under the top bar greater than 14 inches. It may be impossible for us to give all the reasons for this now, but we hope you will take our word for it, when we say there are very good reasons for standing a frame on end in the Extractor, when the length is much greater than the depth.

The following table is for the convenience of those ordering machines, and is intended to enable any one to decide for himself exactly what he can use to the best advantage.

PRICE LIST OF EXTRACTORS.

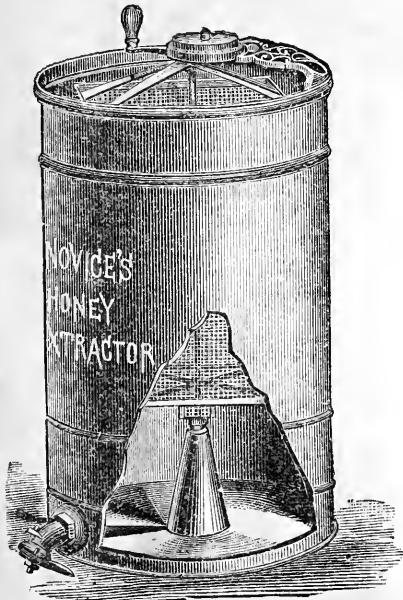
[The figures in parentheses, just before the prices, give the exact *inside* width of the revolving frame of the Extractor, *in inches*.]

No Honey-knife is included with these machines. If a Knife is wanted, see HONEY-KNIVES.

- No. 1.—For the Gallup frame, or any frame 11½ inches wide and not more than 12½ deep.....(12) \$6 50
 - No. 2.—For the American frame, or any one 12 inches wide and not more than 12½ deep.....(12½) 6 75
 - No. 3.—For any frame 12½ inches wide and not more than 12½ deep.....(13) 7 00
 - No. 4.—For the Adair or "crosswise" L. frame or any frame 13½ wide and not more than 12½ deep.....(14½) 7 00
- The above are all in shallow cans, 17½ inches high, and are very convenient for placing at such a height as to allow of running the honey directly into the barrel or any other receptacle, and still not too high for any one to work conveniently. The following numbers can also be used in the same way, unless the operator is short in stature; in that case, a shallow box may be inverted to stand on, but is somewhat inconvenient.
- No. 5. This is made expressly for the Simplicity frame, which is to be used standing on end. It will take any frame whose top bar does not exceed 20 inches, and depth 9½ inches.....(10) \$7 00
 - No. 6. The same except that it will take a frame of 10½ inches in depth..... (11) 7 50
 - No. 7. This is made expressly for the Quinby suspended frame, and will take also the other kind when the end bars have a depth not greater than 11½ inches..... (12) 8 00
 - No. 8. This is for all Quinby frames, and all American frames having a depth greater than 12½ inches, and can be used for all the frames in our diagram, but is much more inconvenient than the smaller ones where they can be used.....(12½) 8 00
 - No. 9. This machine is like No. 8, except that it takes a frame ¼ inch wider, and is suitable for American frames that are 12½ wide and more than 12½ inches deep.....(13) 8 00
 - No. 10. This is the largest machine that we keep in stock, and will take a frame as wide as the Adair, and as long as the Quinby.....(14½) 8 00

All the above are to be used with the honey gate open, holding only about 25 lbs. below the revolving frame; if you desire one with a space for any considerable quantity of honey below the revolving frame, we will furnish it for 1c per lb. additional, for as many lbs. of honey as you wish it to contain. When space for 50 lb. or more is wanted, the revolving frame is supported on a cone, as in cut.

Our extractors are all neatly japanned and lettered. Extractors made with the Everett gearing, \$1 more.



THE ORIGINAL ALL METAL HONEY EXTRACTOR. Over 3000 now in use.

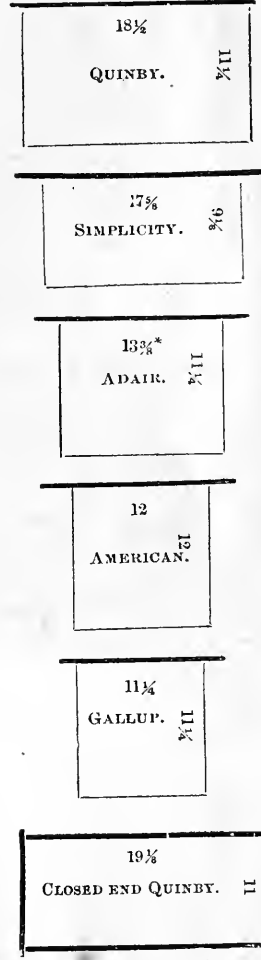
In the cut above a space is shown for perhaps 100 lbs. of honey below the revolving frame, but I can

not say that I would recommend them so. Better have the cheaper shorter machine, and then you can work with the extractor raised (as per directions for using on next page) so as to run the honey into pails or a barrel. Of how much use is a honey gate, when it rests right on the floor?

Our castings are made to fit three different sized cans; viz., 17, 20, and 22 in.; and we make the cans also of two different heights. To work nicely, the frame needs about the same amount of room to hang in the Extractor, that it has in the hive; to do this there seems to be no other way than to make every Extractor to fit the hive it is intended for. Of course you can use them otherwise, but a machine just large enough for your frame, and no larger, is much the easiest to work.

DIAGRAM OF PRINCIPAL FRAMES IN USE.

Figures given are outside dimensions in inches. Suspended frames have ¼ inch supporting arms, or an equal prolongation of top bar.



For frames having a top bar with an extreme length of more than 20 inches, we shall have to make an extra charge of \$1.00, and we shall have to make the same extra charge for frames that exceed 14 inches the narrowest way. There are few frames of such extremely large size in use, yet we see them occasionally. Also, we find a few who insist on an extractor that will hold 4 frames at once; unless the frames are very small, we cannot think such will be liked as well, yet we will furnish them when desired, at an expense of \$2.50 extra. If you look into the matter, you will

*The width of this frame was changed in 1882, from 13½, to 13¾, so that the top and bottom bar would then make a "crosswise" Simplicity frame, holding 6 sections instead of the usual 8.

see that a very much larger and heavier revolving frame will be needed, and every ounce in weight added to this, hinders rapid work.

Any of the above will be made with the wire cloth in a slanting position, for \$1.00 extra, but we do not consider it of any especial advantage. Stout milk-can handles put on for 50 c. extra. These are needed only when the machine is moved around considerably.

All of the last six-tall cans—have a support at the bottom for the frames to rest upon, and also to hold broken pieces of comb, should it be desired. The first four have nothing of this kind, for it is not needed, and would in reality only make them heavier, and be in the way; we advise purchasers always to take the smaller machines when they will take their frames. For instance, we would much prefer the No. 4, to the No. 10, even if offered at the same price, provided we had nothing but the Adair frame in our apiary.

Do not ever think of removing the inside of an extractor to clean it. From a tea-kettle full of boiling water, let fall a stream on every part while you turn it, then pour off and rinse, and the honey will all be removed.

Although our machines are now made much lighter and stronger, the gearing very much improved in looks as well as in strength, an improvement added whereby once oiling will last a season, a cover and strainer added, and the prices reduced, yet we will make the proposal that we will, to any one who has purchased one machine, give 10 per cent off on all he may sell after that; and this is all we can do in the way of furnishing them at wholesale. To dealers who advertise our Extractors, we will give 25 per cent off retail prices. This offer refers only to Extractors.

Any kind of a machine that revolves the honey after it is thrown out of the comb, or that revolves tin cans with the combs, is a most serious blunder, as you will see by trying both kinds.

It may be there are valuable features found in the high priced Extractors, not found in our own, but if such is the case, we are unable to appreciate them. We have added every improvement suggested that we thought would prove valuable, all things considered. Any one who has studied the matter will see that to make a machine capable of receiving four combs instead of two, will require an increase in size and weight, without very materially aiding in rapidity of work, among the masses. Reversing the combs inside the can, making the inside frame three-cornered, running the machine by gearing or belts placed under the bottom, making the machine so the combs will swing over when turned backward, etc., etc., have all had their advocates, but we think have generally been, after a time, discarded like the revolving cans. Our friends can rest assured, that we shall spare no pains in promptly adopting any real improvement that may come up. Please do tell the dimensions of the frame or frames you use, in ordering.

INSTRUCTIONS FOR USING AN EXTRACTOR.

Many of our new friends have asked for directions or using these machines, but really they are so simple, that it seems little advice need be required. They are all ready for use when received, and the most that is required is to screw them fast to some box or bench just high enough to allow the gate to run the honey into the bung-hole of a barrel. Fasten this box or bench securely to the floor. Do not undertake to work unless the bees are gathering honey, or you will be very likely to have trouble. The best time is when they are busy in the fields, and if the yield is good, you will hardly need any smoke. Carefully remove a frame from the hive, and then, with a series of sudden jerks, shake the bees in front of the hive or on top of the frames, as you may find most convenient. When you have shaken off as many as you can, take a bunch of asparagus tops, and gently brush off every bee in front of the hive. Now with the honey knife, carefully cut the cappings from all capped cells. To do this quickly, you will slit the knife under the caps in such a way as to have them come off in one entire sheet. In regard to straining the honey, we know of no way that answers so well, all things considered, as to hang the little bag sent with the machine, in the bung of the barrel; this keeps it all close and tight from flies and dust, and when you stop work for a little while, it is all safe, without the necessity of covering anything up. Two such bags are really needed, so that one can be kept clean and ready to take the place of the other, when it becomes filled with impurities. As the sediment always settles to the bottom of the bag, the solvent work well as a strainer for a long time. Cloth strains honey more perfectly than the finest wire cloth can. When the comb is uncapped it is to be placed in the Extrac-

tor; although you can extract one comb at a time if you choose, it is much better to have two, as they then balance each other, and the friction is less on the bearings, though our machines will stand the strain of the heaviest combs, one at a time, if need be. Turn just fast enough (and no faster) to throw out the honey, and there will be no danger of throwing out the brood; you will soon learn this by practice. Combs so full of brood that there is but little room for honey had better be left in the hive; there is little to be gained by working very close, and should the honey season suddenly close, there is danger of the bees starving, as we have known them to do, even in July.

On this account I would extract from the frames in the upper story only, after the bees get once well into them.

After the honey is taken from one side of the comb it is, of course, to be turned, and the honey taken from the other side. When the combs are very heavy and the honey very thick, it may be best to throw it out only partially the first time, and then reverse, to avoid crushing the comb into the wire cloth by the great centrifugal force resulting from such a weight moving at a great speed.

If your hives are kept close to the ground, and no weeds allowed to grow around the entrances, there is very little danger of losing queens while extracting, yet it is a very good plan to keep them carefully in mind, and if you should not see them, we think it a little safer to shake the combs that contain much brood, so that the bees fall directly into the hive. Losing queens while extracting is rather expensive business.

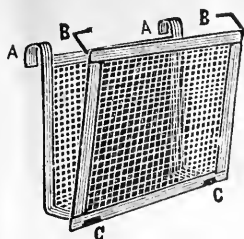


DADANT'S UNCAPPING CAN.

This is very convenient indeed when much extracting is done. The caps fall on the wire screen, and the very finest honey drains from them, and is drawn off below. If a jet of steam is available, by directing it on the drained cappings, 100 lbs. or more may be reduced into nice wax in a few minutes. Prices: 17 inch, \$5.00; 20 inch, \$6.00. They are finished like our extractors.

MATERIALS FOR MAKING EXTRACTORS.

- IX. tin, 14x20, per sheet, 10 c.; per box of 112 sheets..... \$ 9 00
- GEARING, and supporting arm that attaches it to the can, finished, complete, varnished ready for use..... 1 25
- By mail, send 55 c. more.
- Ten sets for \$10.00.
- Supporting arm only, 50c; by mail, 40c more.
- EVERETT GEARING, 50c more than above prices.
- MUCH'S WEIGHT GEARING..... 1 25
- INSIDE OF EXTRACTOR AND GEARING complete..... 4 00
- HONEY GATE, uncut, ready to solder into can in lots of 10, \$4.00; per 100..... 37 50
- If sent by mail add 2 c. each, for postage.
- Handles for making Honey Gates, 15 c.; if wanted by mail, 9 c. extra.
- WIRE CLOTH made expressly for EXTRACTORS, per square foot, 8 c.; 10 sq ft., 70 c.; 100, \$6.00.
- If wanted by mail, 50 per foot extra.
- HOOP to go around the top of the EXTRACTOR, very strong and stiff, nicely turned, and drilled for the castings, 50c; ten for \$4.00.
- CAN only for EXTRACTOR, without any inside gearing, or japanning, one-half price.

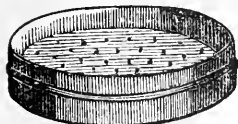


BROKEN-COMB BASKET.

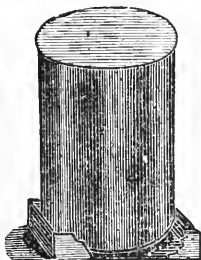
Basket to be hung in extractor, for broken pieces of comb and for section boxes, Price 25c : by mail.....

35

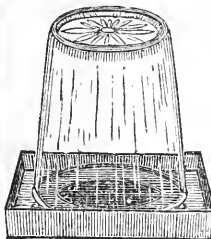
FEEDERS.



PEPPER BOX FEEDER.

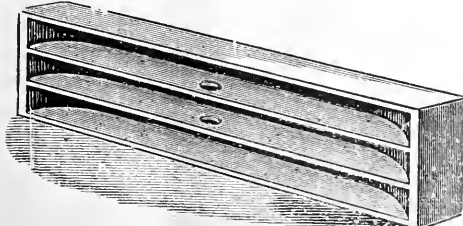


HAINS FEEDER.



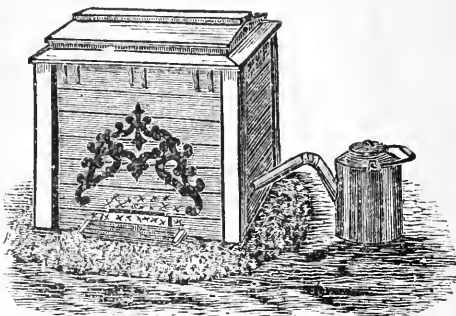
GLASS TUMBLER FEEDER.

At present we make and keep in stock 3 kinds of atmospheric feeders, the Pepper Box, Hains and Tumbler. The price is for the two first, 5c for a pint, and 10c for a quart feeder; by the hundred, \$1.00 for the small, and \$8.00 for the large; if sent by mail, double the above prices. Tumbler feeders, 10c.; per hundred, \$8.00; not available. To use, fill with syrup, honey, or even lumps of sugar with water poured over it. When full, cover, and turn it upright, as shown in the cut. It may now be placed in front of the hive just at night, so as to allow the bees to get a "sup" to start them, and they will quickly take every drop. If you wish to feed in the day time, place it in the hive at one side of the combs, on the top of the frames, or on the top of a honey board with one of the holes open. The Pepper Box feeder is intended especially to be set over a hole in the quilt or honey board; but can be used at the entrance, the same as the other feeders. Any of the cheap boxes with a perforated cover, such as pepper is sold in, will answer the same purpose.



THE 5c. SIMPLICITY FEEDER; DIRECTIONS FOR USE.
Fill it with honey, syrup, sweetened water, or even sugar with water poured on it, and then set it

in one side of the hive, on the frames, in the portico, in front of the hive, or in the open air anywhere, and the feed will all be taken without a single bee getting drowned. They hold just about 1/2 pint, and are sent safely by mail for 10c, postage included. It is also conveniently used at the entrance, as shown in the cut below. Price, for 10, 45c; 100, \$4.00.

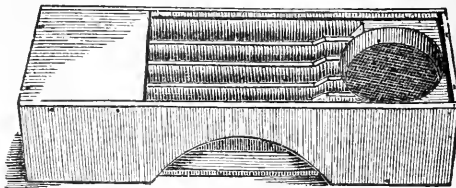


SIMPLICITY FEEDER ARRANGED FOR FEEDING AT THE ENTRANCE, JUST AT NIGHT.

Price of feeding-can shown above, 75c.

The syrup I would recommend is sugar dissolved in any quantity of water convenient; I would not have it as thick as honey, but rather thicker than simply sweetened water. This is for warm-weather feeding, to stimulate brood and queen rearing. Any kind of sugar that the bees will eat will answer. For winter stores, granulated sugar is probably the safest of anything. See SUGAR.

The above must be used at night, or we shall have robbing. For a "daylight entrance feeder," I would recommend the one below.



GRAY'S COVERED SIMPLICITY FEEDER.

The sheet of glass is omitted in the engraving, but it slides in the grooves shown, and the end opposite the filling-place slides under the little wooden board which covers a small portion of the feeder. The glass moves so easily that it will fall from one end to the other, as the feeder is tipped. The operation of feeding is only to go round with your coffee-pot of syrup, and fill them up wherever you can see through the glass that the feeder is empty. Slip the glass back with your finger, fill up, and then close. No syrup goes over the backs of the bees, because the wire cloth lets it through only under their feet. It is all made of one block of wood (with a wabbling saw), except the little board over one end, and the strip that holds the glass from being dropped out and broken, at the other end. We can furnish them for 15c complete; in lots of 10, \$1.20; per 100, \$11.00; or 5c more each, neatly painted. If wanted by mail add 10c each for postage.

BREAD-PAN FEEDER.

(See cut and prices on 5-cent Counter.)

These are used by simply spreading a piece of cheese cloth over the pan and then filling it up, or the syrup may be put under the cloth.

CUT-DOOR FEEDER.

Grooved board for out-door feeding and for watering bees, as described in A B C, 15 c.; if sent by mail, 35 c.

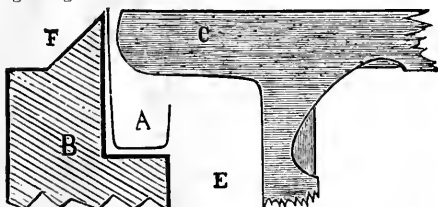
We also furnish what we have for years called the tea-kettle feeder, because it is the size of a common tea-kettle, and holds about 20 lbs., or enough for a colony to winter on, at one "dose." The price of these is 50c or \$4.00 for ten. They are to be used in the upper story; if desired they can be made in an oblong or square form, so as to be used in the lower story. To avoid killing bees, they may be attached to a top bar, and be hung on the rabbets like a frame. While we are about it, I would remark that I consider the powdered sugar, made into a

stiff dough with good honey, and then laid on the frames right over the cluster, in a great many respects ahead of any feeder.

FRAMES FOR BEE HIVES.

CORNERS, METAL, FOR FRAME MAKING.

Perhaps the readiest way of understanding all about these, will be to order a sample frame, which we send by mail with a bit of rabbit and sample transferring clasp, for 12c. For the convenience of those who do not get the idea at once, we submit the following diagram. Also see engraving on front cover.



METAL CORNER, AND ITS POSITION IN THE HIVE.

The engraving is full size. The $\frac{3}{4}$ board B is supposed to be the end of the hive. A is a section of the metal rabbit, and C is the corner, raised a little from its place as it rests on the rabbit. The space E, between the frame and the end of the hive, should be about $\frac{3}{8}$ of an inch, as explained below. F shows the bevel and shoulder, shown on front cover, and also under SECTION BOXES; this is to prevent wind or rain from getting through, when the hives or covers are piled up two or more stories high.

It will be observed that the frame is supported entirely on knife edges crossing each other at right angles, making it impossible for the bees to wax the frame fast, and almost impossible for you to pinch a bee in putting the frame down, even if you take no pains at all, to get them out of the way. We prefer to have the tin rabbit reach up above the end of the corner C, because the bees are so much less disposed to try to propolize the bright tin; also when replacing the frames, the corner arms glide smoothly into place as soon as they strike the rabbit. The rabbit may be used without the corners, or the corners may be used without the rabbit, but neither of them alone gives us a frame so perfectly movable; and as wood is always giving more or less, they can not hang perfectly true; neither can a frame be slid on the rabbets up to its place as quietly as when all the bearings are of metal.

HOW TO MAKE THE FRAMES.

Our frames were first made of strips of straight grained pine, only $\frac{1}{2}$ of an inch in thickness, and it is surprising to see how well such combs have stood. On one occasion, a number of these heavily filled with honey fell from the top of a barrel, yet not a corner was injured, and not a comb broken; these were Gallup frames, however, only 11x11x1. For the Langstroth frames, we now make the top bar about 10-32, and all the rest of the frame 7-32. Lair, American, and Gallup frames are all made of 7-32 stuff throughout, and also the new wired frames. (See page 8). The Quinby size may have a $\frac{1}{2}$ top bar, but the bottom bars might all be not more than $\frac{1}{2}$, were it not that the frames may be sometimes used for transferring, and that the weight of the combs would sag the bottom bar, which is a very bad feature, if we wish to work closely and avoid killing bees. The top bars would not require so much wood, were it not that honey boxes are sometimes placed on them, and it is advisable to be on the safe side. When we depend entirely on the use of the extractor, we would prefer a space of half an inch between the ends of the frames and the end of the hive; but for box honey, small bits of comb will be built in this space, more than will be the case if $\frac{3}{8}$ only is allowed. It requires a very careful operator to work fast, and avoid pinching bees, when only $\frac{1}{4}$ or $\frac{3}{8}$ inch is allowed.

The two following cuts may assist some in putting on the metal corners:



Figure 1 represents the points ready to be closed down and clinched into the wood; Fig 2 a point badly clinched at B, and one perfectly driven down at C. The line D shows the direction in which the finishing blow of the hammer is to be given; in fact this blow should sink the metal slightly into the corner of the wood, drawing it up tight at the side C, and on no account letting it bulge out at B, nor allowing the point to curl up. A light, properly made hammer and a little practice will enable any one to make

every point like C.* Should you get one done badly, you can with a pair of plyers straighten it out and make it go right. (When clinching down the points, the frame is to be pushed into the iron block made for the purpose, or into a notch cut in a block of hard wood.) The objection has frequently been made that this takes more time than to nail them; even if this were so, we are enabled to employ girls or other cheap help (we beg pardon, ladies, but we never yet saw a community that did not furnish more or less females, who would be glad to get some such light work) who could not possibly nail good frames; then after they are done, their superior strength and lightness compared with nailed frames, fully make up the difference in price. We will send you a sample frame by mail, just as we would have it, for 12 cents, (American and Gallup size 10 etc.) including sample of rabbit and transferring clasp, and you can test it by the side of your own frame in your hive. If the nailed ones do not seem awkward after using it, you, of course, need not invest any further.

The metal corners were patented June 18th, 1872, but we have "repented," and hereby give the invention freely to our readers. If any one can make them cheaper than we do, we will try to rejoice, because it will benefit the people.

Postage	Frames with metal corners, per hundred	\$4 00
	The same in the flat, " " " "	3 50
	" " " " " " " "	per 1,000..... 30 00
	" " " " " " " "	10,000..... 250 00

Frames ordered put up, not sent in hives, will be at an extra expense of 25c for each hundred or fraction thereof, for crating. Frames in the flat, go as third-class freight, while put up, are at double first-class freight, on account of the great bulk.

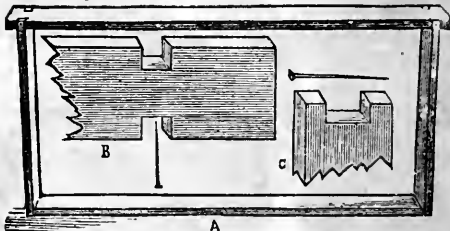
32	Comb-guides (if wanted extra), per 100	25
20	Corners, metal, per hundred	50
25	" " " " top only, per hundred	60
15	" " " " bottom, " " "	40

On 1,000 or more a discount of 10 per cent will be made, and on 10,000, 25 per cent. The latter discount will also be given to those who advertise metal cornered frames.

10	Blocks, iron, for metal cornered frame making	15
----	---	----

Machinery complete for making Metal Corners..... \$250 00

When customers do not specify which kind of frame is wanted, we always send metal-cornered.



FRAMES ENTIRELY OF WOOD.

Made as in the cut above, price per hundred, \$2.00; the same in the flat, \$1.75; 1000, \$15.00; 10,000, \$125.00. Any of the 5 sizes shown on page 10, or any combination (i, c, tops and bottom bars to one, with sides to another) will be furnished at the above price in any quantity, but odd sizes must be ordered in lots of not less than 100, and the price will be one-fourth more. This applies to Metal Cornered, as well as all-wood frames. Sample L. frame of the above kind mailed for 7 cents. For wide frames for section-boxes, see SECTION HONEY BOXES. Second quality frames, one-fourth less, when we have them in stock.

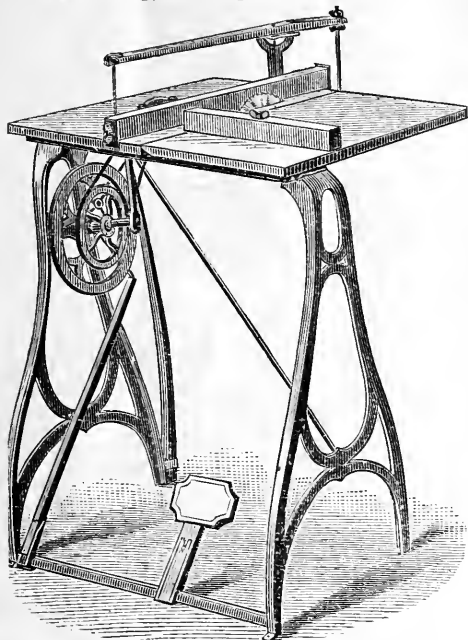
FOOT-POWER BUZZ-SAWS.

These machines are very handy in the apary indeed, and as we warrant them to cut common, inch, pine boards at the rate of 8 feet per minute, line measure, and other thicknesses in proportion, they will answer to make frames, hives, section boxes, and almost every thing wanted about the apary. The table can be raised and lowered for cutting different depths, for rabbeting, grooving, joining and other work. Price, with two 6 inch saws, all needed gauges, etc., \$35.00. The buzz saws will reach through 2 1/2 inches. A scroll saw attachment is added for \$5.00 more, or \$40 for complete machine as shown below. Wt., 125 lbs. Shipped from factory in Illinois.

These answer very well, for making hives for your own use, but if you think of making them for sale, you will need power of some kind. If the machine is

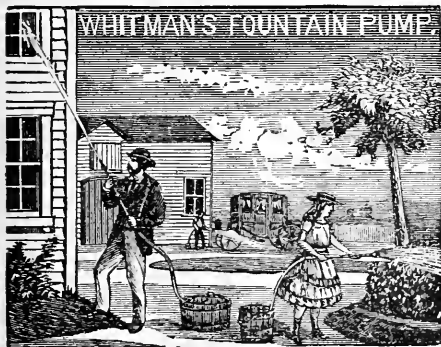
* Our 16-cent magnetic hammer is about right.

all in excellent trim, *saws sharp*, and every thing nicely oiled, the labor is not very fatiguing, for sawing inch lumber, but if you let the saw get just a little dull, or your lumber is hard, or if you attempt to cut very much 2 inch stuff, you may wish pretty "severely," you had a little engine. We furnish with them the A B C book (cloth cover), which gives directions for hive making, saw-filing, and the care of saws.



FOOT-POWER BUZZ SAW AND SCROLL SAW COMBINED.

**FOUNTAIN PUMP, OR SWARM AR-
RESTER.**



This is a very pretty little brass force pump, or fire engine, with a rubber hose attached. It is so light, that you can work it with a pail of water hanging on your arm, and can throw the water without trouble onto the roof of a three story building. Of course these machines are invaluable in extinguishing fires, washing windows, clearing trees of worm's nests, watering plants and gardens, etc.; but their chief value to the bee keeper is on account of the facility with which a swarm of bees can be brought down by spraying them with the attachment especially for that purpose.

Price of pump is now but \$8.00; they have formerly been \$10. If wanted by mail, add 60c for postage. After you have bought one, 10 per cent off on future orders. Wholesale rates on application.

A beautiful colored plate of the pump mailed on application. These pumps are *extremely* well and strongly made. Extra hose, 20c per foot. Postage 5c per foot extra.

FILES FOR CIRCULAR SAWS.



The above is the very best thing we have ever found, and as the shape is just the pitch of the teeth, almost any one can learn to put a saw in order with one of them, in a very short time.

Price of the 5 inch..... 15c or \$1.25 for ten
 " " " 6 " 25c " 1.80 " "
 " " " 10 " 35c " 2.75 " "

If wanted by mail, add 3c for each small one, and 7c for each large one. The large size is just right for the hand ripper.

Double ender files (7 inch), for cut off saws, 10c. 10, 90c; 100, \$8.50. If wanted by mail, 2c each extra.

The same, 10 inch, 15c. 10, \$1.25; 100, \$12.00. If wanted by mail, add 3c each extra.

10 inch, flat, Mill Saw files (by mail, 12c. extra)... 40
 12 " " " " (by mail, 18c. extra)... 60
 14 " " " " (by mail, 30c. extra)... 75
 Round Files, 9 inch (by mail, 3c. extra)... 25
 " " 12 " (by mail, 6c. extra)... 35

These last are used for making a round "throat" in circular saws, especially large saws. Our files are all of the celebrated Nicholson make.

GALVANIZED IRON WIRE,

For Grapevine trellises, per lb. (by mail, 18c. ex.)...15
 There are about 130 feet to the pound.

GLASS FOR BEE-KEEPERS.

Glass, 8x18, for large shipping cases, 8c. per sheet; or \$3.50 per box, in boxes of 50 sheets.

Glass, 8x13 1/2, for small shipping cases, 6c. per single sheet; or \$3.00 per box, in boxes of 66 sheets.

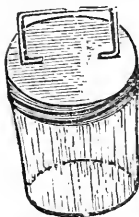
Glass, cut to any of the sizes used by Beekeepers, for \$3.00 per box of 50 square feet.

Glass for combined shipping case and honey crate. Price per box of 17 1/2 sheets 2 1/2-16x18 inches \$3.00. Per sheet 2c.

At this price, each box must contain but one size. Glass in full boxes, shipped from Pittsburgh.

Glass-cutters, 5 c.; by mail, 7 c.

GLASS HONEY PAILS.



While almost everybody wants some kind of a pail to carry honey in, many also prefer, for liquid honey, a glass utensil to anything else. Both objects have been secured by the pail shown in the adjoining illustration. The top screws on, like the cap of a fruit-jar, and they can be used with rubber-jar, if desired. The bail turns down out of the way, when they are to be packed, or when it is necessary to set them on shelves. Prices: 1/2-lb. pail, 5c; 10, 45c; 100, \$4 25; 1-lb. pail, 8 cts.; ten, 75 cts.; 100, \$6.50; 1 1/2-lb. pail, 10 cts.; ten, 90 cts.; 100, \$8.50.

GLOVES, RUBBER.

While we sell large quantities of these for handling bees, I can not consistently recommend them, for I consider the naked hand better for working among the bees than any covering that can be devised for it. We can furnish a good article, well worth the money for other purposes, as follows: Ladies' gloves, (sizes Nos. 6, 7, 8, 9), per pair, \$1.50; 10 pair, \$12.50; 100 pair, \$110.00. Gents' gloves, (sizes, Nos. 10, 11, 12) per pair, \$1.75; 10 pair, \$15.00; 100 pair, \$140.00. Driving gloves, extra large, long wrists, (Nos. 13 and 14) per pair, \$2.25; 10 pair, \$20.00. Mark size of hand on sheet of paper when ordering. Above prices include postage. If sent by express or freight with other goods, 5 cents per pair may be deducted.

GLEANINGS, BACK VOLUMES.

We can furnish Vol. I, for 75 cents, and any of the others for \$1.00 each separately. Neatly bound, 25 cents per volume extra. The postage will be one-fifth more if wanted by mail. We will furnish the whole from Vol. I, to Vol. X, inclusive, neatly bound, for an even \$10.00. If sent by mail, \$2.00 extra.

These back volumes are very valuable as books of reference, and in the matter of patents alone, beginners would save hundreds of dollars, by knowing what devices have been tried and abandoned. Every few days we see accounts of patents on things that have been fully discussed in the old bee journals; had the inventor been posted on what is already known, he would have saved both time and money. All of the above volumes contain most comprehensive indexes.

GRINDSTONE.

WHAT THE MANUFACTURERS SAY OF IT.



After much experimenting, we have now fully perfected our Grind Stone for family use, and offer it to the public with a full guarantee that it is a perfect machine; and also that it will please every one who buys it. So far as we know, it is the first Foot-Power Machine which has been fully adapted to the wants of families for household work and of mechanics for grinding small tools. The stone is of the best quality, and runs perfectly true. It is 8 inches in diameter, 1½ inches thick, and made at the Huron Quarries expressly for this use.

The Emery Wheel is the same size as the Stone, and double coated on the side and rim with best Wellington Mills' Emery. When not in use it is taken off and laid aside. A sponge is fastened in the side of the trough to keep the stone from throwing water when running at a high speed.

The Machine is run with a clutch, so that there can be no dead centers; but when the foot touches the treadle it starts off in the right direction, and runs at a very high or very low rate of speed as desired. For grinding Carving Knives and all light tools, and for polishing Cutlery this Machine is perfect. The legs are made to fold up for shipping, so as to occupy a small space. Weight, 26 lbs. Price, including box, \$3.50. MILLERS FALLS CO.

WHAT I SAY OF IT.

It seems to me, the above machine would be cheap at \$5.00, in almost any family; but, notwithstanding this, I have made arrangements whereby I can furnish it for \$3.00. We have the machines sent by freight from New York.

Small HAND GRINDSTONE, 75c. A very pretty and handy little machine.

GRAPEVINES.

Strong, thrifty, Concord grapevines, for shading bee hives, 10c each, or 85 cents for ten. If sent by mail, double above prices. These vines are the best to be had, and are just such as we have planted in our new grounds for shading the hives.

HAMMERS AND NAILS.

Much depends on having a hammer just right for the work that is to be done. I often see people (women especially, begging their pardon) try to drive a small, slender nail, into light work, with a very heavy hammer. The nail doubles up, the work splts, their fingers get pounded, and it is no wonder they conclude in disgust, that carpentry is not their forte. Trying to drive a large nail with a light hammer is not so bad, but it is a great waste of time and strength. Every bee keeper should have at least three sizes of hammers. You can drive a common brass pin its whole length into a pine board, with a hammer of the right weight; but, should you try to do it with either of the first two hammers shown in the cut, you would double it up the first clip. You might do it with No. 3, but it is doubtful. With 4, 5, or 6, you could do it without trouble. In watch work, we frequently require hammers weighing scarcely more than a quarter of an oz.

No. 2 is my favorite hammer for making bee hives. It cost me, several years ago, \$2.00; but I can sell you one just like it now, adze eye, fine tempered steel, for just 75c.; by mail, 95c.*

No. 1 is the same thing, except that it has a round face, and will not mar or bruise work, like No. 2; price is the same.

No. 3 is the same as No. two, only about ½ as heavy. It is extremely handy about the apiary, for making chaff hives, nailing frames and section boxes, etc., etc. The strong steel claw makes it much more desirable than any of the cheaper tack hammers. At same price a Saddler's, or Horse-

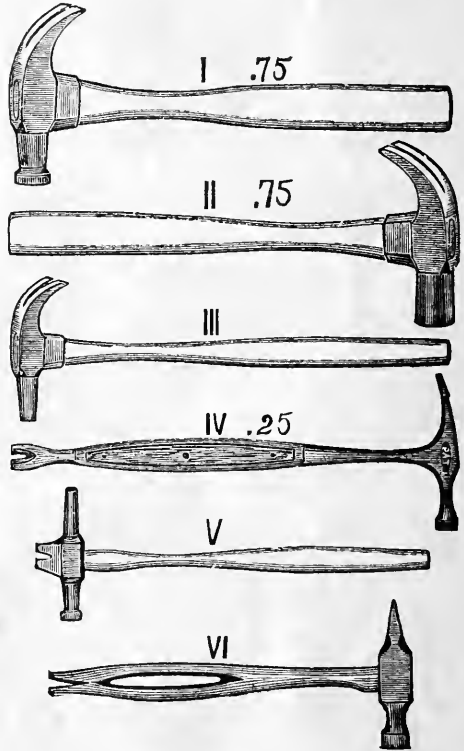
*The same hammer, either 1 or 2, cast steel, but not as well finished, will be found on our 35c counter; and a lighter hammer, same make, on the 25c counter.

Shoer's Hammer. Where one is expert enough to hit the nail every time, this is a great favorite for nice, fine work. Price 50c; by mail 62c.

No. 4 is a very pretty Tack Hammer that can never come loose in the handle, for handle and hammer are all one piece of malleable iron, with a piece of walnut inlaid, as shown in the cut. This is a beautiful and handy hammer, price 25c; by mail, 33c.

No. 5 is a Magnetic Tack Hammer. As the head of the tack sticks to the face of the hammer when you bring them near each other, it is a most handy tool for making smokers and queen cages, tacking wire-cloth, cards, or paper on to anything. Price 10c; by mail 15c. The same with a very neat iron handle, 15c; by mail, 23c. This is a new and most beautiful tool.

No. 6 is a small cheap Tack Hammer, all iron. It is a nice plaything for the children, beautiful for cracking nuts, etc., as well as answering excellently for nailing sections, cages., etc. Price 5c; by mail, 11c. Finished in Copper Bronze or Black Japan.



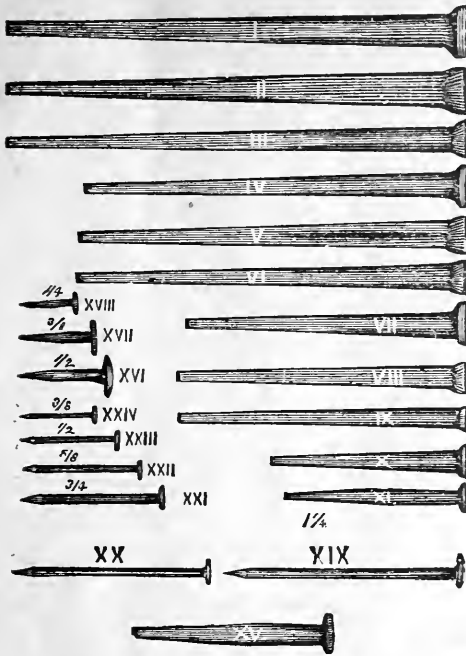
A FULL-SIZED HAMMER FOR ONLY 20c.

There is one hammer I have not pictured in the list. It is very much like No. 2, and has an adze eye. It is a good looking hammer, with a secure hickory handle, but it is only malleable iron. For all this, it will do a great amount of service. You can keep one of these for the women and children, (begging their pardon) so they will not be borrowing yours, and if it is lost, it will be no great damage. Did your folks, any of you, ever hunt for "the hammer," my friend? How much time did you waste? and did you get cross any? Postage on this hammer, 21c.

The same a little smaller, for 15 cents. By mail 17c. extra. See counter store, for wholesale price on hammers.

NAILS AND TACKS USED IN THE APIARY.

When the women folks or boys choose a hammer unsuitable for their work, they are to a certain extent excusable, for perhaps they had but one to choose from, and such may be the case with nails, but it is generally possible to have at least a little chance for choice in the nails we use. Now as it is rather a fine point to choose exactly the best nail for the purpose, I have gone to a little pains to collect the nails and tacks used in our establishment, which I have figured in the cut.



THE NAILS WE USE IN MAKING HIVES, FRAMES, SECTIONS, ETC.

The cut represents the full size of all the nails we use in the various departments of our factory: and, to accommodate you, I have decided to keep in stock a quantity sufficient to meet your demands. Even if you do not order them of me, it may be of service to you to know just what sized nails I have found, after large experience, to be best suited to each part of our work, and what they ought to cost.

No. 1 (3d. common) is the largest nail we find any use for, and it is used only in the packing room, in boxing and crating our heaviest articles for shipment. About 100 nails make a lb, and as the price is 5c, we get about 25 nails for a cent. Price per keg of 100 lbs, \$4.50.

No. 4 (6d. common), is used only in the packing room. There are 150 in a lb. Price 5c per lb., or \$4.75 per keg.

No. 5 (6d. casing), is used for Simplicity cover, and for bottom boards in story and a half and Chaff hives. There are 200 in a lb., and the price is 6c per lb., or \$5.50 per keg.

No. 7 (4d. common or shingle), used only in packing room. There are 300 in a lb. Price per lb. 5 1/2 c, or \$5.00 per keg.

No. 8 (4d. casing), is used for Simplicity cover. There are 330 in a lb., and price is 6c per lb., or \$5.75 per keg.

No. 10 (2d. common) is used for outside shell of Chaff hive and fastening metal rabbits inside of hives. There are 800 in a lb. and the price is 1 1/2c, or \$7.00 per keg.

Nos. 15, 16, 17, and 18 are tinned tacks and nails, and are especially valuable for out door work as they never rust.

No. 15 (1 inch tinned nail), is used expressly for driving into hives to hang the slates on. There are 200 in a lb., and the price is 15c per lb.

No. 16 (1/2 in. tack); there are 150 in an oz., and the price is 3c per oz., or 35c per lb.

No. 17 (3/4 in. tinned tack) is used for putting enameled cloth on chaff division boards, for tacking pasteboard, cardboard, etc.; and for all purposes where No. 18 is too short. There are 275 in an oz., and the price is 5c, or 65c per lb.

No. 18 (3/4 in. tack) is just the thing for tacking screen wire on queen cages and mosquito screens, queen cards on hives, cards on boxes, etc., etc. It never rusts. There are 500 in an oz. and the price is 5c., or 75c per lb.

Nos. 19 to 24, are the new wire nails; see table below.

For the benefit of the aforesaid women and children (begging their pardon still again), I would remark that nearly, if not quite, all of the nails mentioned heretofore must be placed right when they are driven, or they will split the wood. If you look at a common nail, you will see that, if set one way, it acts like a wedge, and is sure to split the wood. If set the other way, the wide part goes into the wood first, and the nail gets narrower, the deeper it goes.

THE NEW WIRE NAILS.

Now there is a new kind of nails made of wire, that may be driven any way; and, for light work these seem to be a great improvement over the old kinds. When a nail of the old kind gets drawn out a little, or "loose," as we call it, it comes out very easily, but these wire nails, being all of a size, hold their whole length. In the cut, I have shown 6 sizes. They are tougher and stronger, for the amount of metal contained in them, than the old kind, and therefore even though they do cost more by the lb., there are so many more in a lb. that, in reality, they are cheaper. They are used for making all kinds of honey boxes, broad frames, nailing on separators (they will drive through the tin without having holes previously made) and are just the thing for a great variety of purposes in the apiary.

The following sizes I have selected as being most especially what the bee-keeper will need for Hives, Frames, Sections, etc. I have had them made of rather smaller wire than those usually found in the market, and for this reason you will not generally find these sizes in the market. As we buy in large lots, we can furnish you, in 100 lb. lots, lower than you would be likely to get them directly from the Factory.

PRICE LIST OF WIRE NAILS.

L'gth of Nails	No. of Nails in lb.	Size of Wire.	Put up in five-cent Packages	Price.		
				1lb	10lb	100lb
1/4 in.	12,500	No. 21	per oz. 5c	50 c.	\$4.00	\$35.00
3/8 "	10,000	" 21	" " 5	40	3.50	33.00
1/2 "	6,000	" 20	" " 5	30	2.50	22.00
3/4 "	4,400	" 19	2 " 5	20	1.80	17.00
7/8 "	2,750	" 18	2 " 5	18	1.50	13.50
1 "	2,250	" 18	3 " 5	16	1.40	13.00
1 1/4 "	2,000	" 18	3 " 5	16	1.40	13.00
1 1/2 "	1,000	" 17	3 " 5	15	1.35	12.00
1 3/4 "	650	" 16	" "	14	1.25	11.50
1 7/8 "	450	" 15	" "	13	1.20	11.00
2 "	240	" 14	" "	12	1.10	10.00
2 1/4 "	225	" 13	" "	11	1.00	9.50

The 3/4 inch are the ones we use for making wide frames to hold sections and the all-wood brood frames.

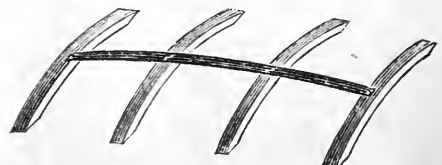
The 1/2 in. is the size most used for section boxes, putting on separators, etc.

With the 1/2 inch nails and a light hammer to match, we can nail lumber that has heretofore been considered out of the question, on account of its thinness, and we can do a good job on it, too.

The 3/4 inch is the smallest of anything I have ever seen or used in the line of tacks or nails, and yet they are very handy and very cheap, for a great variety of fine work.

Any of the above tacks or nails will be sent by mail, at a cost of 18c per lb. for postage. If you want only a single oz., you must send 2c to pay postage. Postage on 2 oz. packages is 3c., on 3 oz. packages, 4c. The staple sizes of nails are liable to an advance without notice.

HILL'S DEVICE.



HILL'S DEVICE FOR COVERING FRAMES IN WINTER.

The above is placed over the frames and under the cushions, and forms a chamber for the bees to cluster in, and permits them to pass freely from one comb to another, even during a shady zero freeze. Price 5c each, 45c for 10, or \$4.00 per hundred; in flat, \$2.50. By mail, 5c each extra.

SIMPLICITY HIVES IN THE FLAT.

	Per hive.	Per pck.
3 1-story hives, no insides or bottom	50c	\$ 1 50
5 " " " " " "	48	2 40
10 " " " " " "	45	4 50
20 " " " " " "	43	10 75
50 " " " " " "	43	21 50
100 " " " " " "	43	43 00

*Body and cover cost the same if wanted separately.**

You can use your ordinary Langstroth frames in the above hives, or we can furnish you metal cornered frames, and a sheet of enameled cloth (see TIN-LINED SHEET of enameled cloth) for covering the frames, for about as much more; that is, the frames (10 to each hive) and enameled cloth sheet cost about the same that the hives do. Two of the above hives make a complete two story hive, the cover of one of them, then being used as a bottom board. If you wish comb honey instead of extracted, fill the upper story with sections instead of frames. The 56 one pound sections, with the 7 wide frames and separators, including fdn. starters, will cost nearly 3 times as much as the 10 metal cornered frames and sheet. The sections and fdn. cost but little, but the wide frames to hold them are pretty expensive with the tin separators. However, as a set will last indefinitely, we have only to purchase the sections, after we once get started. The all-wood frames and mat (see MAT) cost just half as much as the metal-cornered fcs. and enameled sheet.

Simplicity hives made to take the frames crosswise, 10 per cent more. Made as above to hold Adair frame, (see p. 11) one-third more than regular list. Of course either of these, will take the regular Simplicity furniture above. Simplicity hives, with tin covers, 10 c. extra each cover.

CHAFF HIVES IN THE FLAT.

Single hive in the flat, per hive.	Per pkg.	\$ 75
3 " " " "	1 70	5 10
5 " " " "	1 65	8 25
10 " " " "	1 60	16 00
20 " " " "	1 55	38 75
50 " " " "	1 52	76 00
100 " " " "	1 50	150 00

A Chaff hive is always a two story hive, and can be used in no other way; as the walls are double, the expense is about 1/2 more than that of a two story Simplicity. Furnishing the lower story will cost just the same as the Simplicity, but as the upper story is wider, it will cost nearly one-half more.

One-story Chaff Hives, 1/2 price of usual C. H. This takes a Simp. cover or Simplicity upper story on it.

No nails are figured in the above prices, but we can furnish them if desired. A Simplicity needs about 1/2 lb. (68 6d. and 20 3d) to make it good and strong. All the nails needed for a chaff hive, done up in a package, 10 c. See HAMMERS and NAILS.

If you have never seen a Chaff hive, perhaps you had better order your first one made up, (\$2.00) for there are a great many pieces to them.

These hives are all made of seasoned white pine lumber.

RABBETS FOR HIVES.

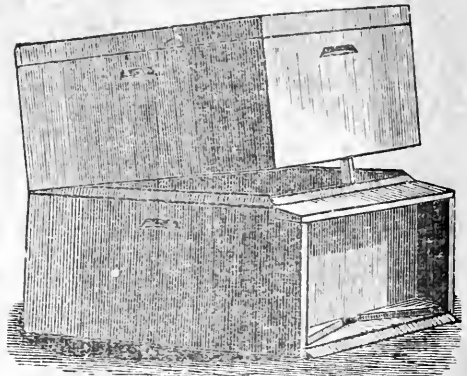
These are of folded tin, see diagram under FRAMES with met. corn's. The price will be 2c per ft. for odd sizes, but those for the Simp. hives kept constantly in stock, will be 2c each piece of 14 in., or \$1.75 per hundred pieces, or \$15.00 per 1000. The rabbits on the lower story of the chaff hive are just the same, but those of the upper story are 2 1/2 inches long; the price of these will be 3c each, or \$2.50 per hundred, or \$20.00 per 1000. Rabbits can be sent by mail, but the amount required for postage is just as much as the price of them.

Metal rabbits are included with all the above hives.

My friends, I have shown you the Chaff and Simplicity hives, and I have given you a table of prices for them, from one all the way up to a hundred. What I have called a hive is a body and cover, without any inside furniture. I have fixed the prices thus that you might make up just such a hive as you wish; for all the different parts are interchangeable. You know what different opinions people have, especially bee-keepers; well, the Simplicity hive will allow you to have just as large a hive as you like, or just as small a one as you like, for every hive fits exactly on every other, and every cover may be used as a bottom board, and vice versa. Still

*At the present time, there is such an advance in lumber, that I can only hold to my prices, by using for the body of the hive No. 2 barn-boards instead of No. 1s heretofore; but although these do not look quite as well we think them good enough for practical use. If you must have No. 1, add 25 per cent to above prices, and give us the order a month ahead. The same is true in regard to covers and bottom boards; if you must have all of them sound lumber, add to above prices, 25 per cent. Second-quality hives, when in stock, 1/2 less than above table.

further, every two story hive can be made into two one story hives, at a moment's notice, which is quite an important item when we unexpectedly run short of hives in swarming time. Any two single-story hives will always make a two-story hive in the same way. It is for these reasons that I prefer the Simplicity hives, to all other summer hives.

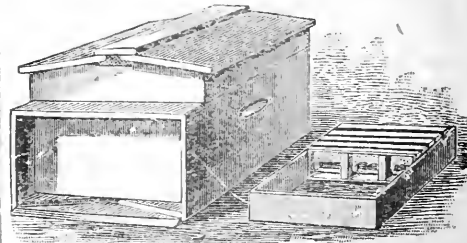


PORTICO HIVE TO TAKE A SIMPLICITY UPPER STORY OR COVER.

Now, there are people that will have a hive with the old fashioned Langstroth portico, and a permanent bottom board, which the Simplicity hive has not. There are some very good reasons for such a preference, where hives are to be moved much; as into the cellar and out, or when they are to be shipped and sold. For these reasons and others, we make and keep in stock the hive shown above; it is shown with a single story Simplicity set over it for an upper story.

Now, in regard to the price of this hive, when I say it is the same price as the Simplicity, I mean that the lower body with a bottom is the same price as the upper body (or half) with a cover, for we figure a body and cover at the same price. It is true, the bottom in the lower hive is not as expensive as the cover on the upper hive, but when the portico is taken into consideration, it amounts to about the same. But our lower hive, if used alone, would have no cover; the cover on the upper hive fits it exactly, and as this costs the same as the body, the price in our table of the Langstroth Simplicity (bottom included) is 1/2 more than the price of the regular Simplicity covers.

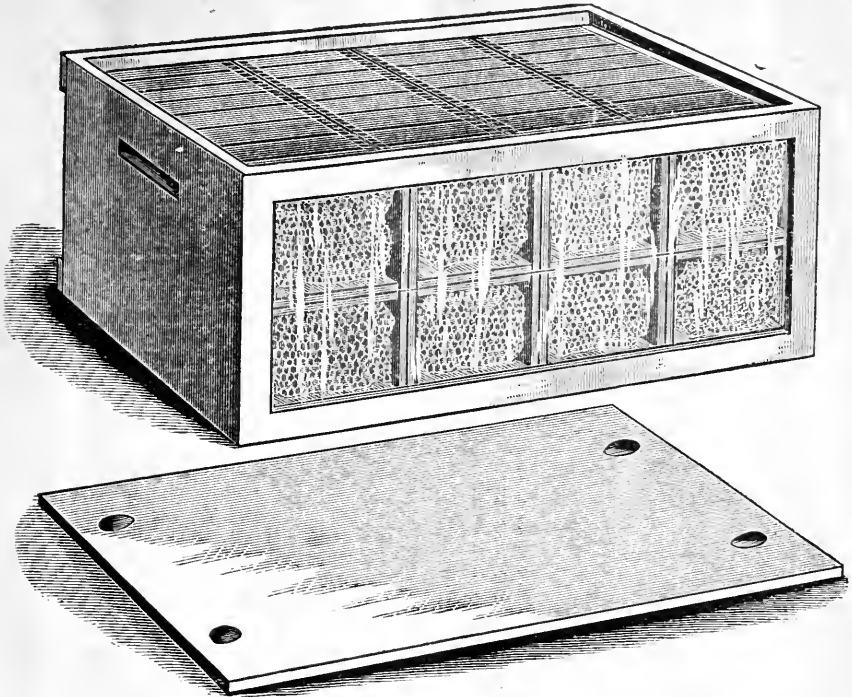
There are some very great advantages in having a cover flat on top, and plain and simple, made of a single board, like the Simplicity cover. It can be used interchangeably as a bottom board, it permits the hives to be piled up like square boxes of merchandise, they can be shipped at less rates, because there are no projections and corners to be knocked off, etc., etc.



STORY AND A HALF HIVE.

The disadvantages are that it is too shallow for wintering without an upper story, or for a tier of surplus boxes, it gives little or no chance for ventilation, it cannot be raised with one hand easily, etc., etc. As one cover can not well please everybody, and combine all these advantages, we furnish the one shown above, at the same price. It covers a single tier of boxes, or a good sized chaff cushion for wintering, and can easily be raised with one hand by the ridge board, because, except this ridge board, it is all made of 1/2 inch stuff.

This cover is now made with the thin roof-boards screwed against the under side of the ridge-board, and the holes thus left in the gable ends are covered with wire cloth, and serve as ventilators.



SHIPPING AND RETAILING CASE FOR COMB HONEY.

This contains 48 of the 1-lb. sections, and, so far as our experience goes, may be shipped safely anywhere by express, without injury, for the express men can see just what it is. I presume they could be shipped as freight in the same way, on direct lines. The case, if kept clean, and treated to a coat of new paint occasionally, makes a very pretty case for retailing from, for the grocer has his honey neatly cased, and always in plain sight, and when a cake is sold, all he has to do is to raise the cover, and hand it out. Price of the case complete, 50c; without the glass, 35c; stuff in the flat, ready to nail, 25c. The same to hold only 24 boxes, 32c; without glass, 20c; in the flat, 18c. In lots of 100 or more, we can furnish large size for 20c, and small one for 15c each, in the flat. The small size can be sent by mail for 75c. For price of the glass in the flat, see GLASS.

TIN PAILS WITH RAISED COVERS.

Foot	Capacity in—		Price of 1.	Price of 10.	Pr. of 100
	Pounds.	Quarts.			
6	1½	½	5	48 c.	4.50
8	3	1	10	60 c.	5.25
12	6	2	10	85 c.	8.00
15	9	3	15	1.25	12.00
13	12	4	25	\$ 1.00	15.00
27	18	6	25	2.00	18.00
30	25	8	35	3.00	25.00

Above all nest one in the other; Jones pails do not.

STANDS FOR RETAILING HONEY.

For illus., see Oct. JUVENILE. Price complete walnut, lettered and varnished, \$1.00; 10 for \$7.50 in the flat, 60 c.; 10 for \$5.00.

HONEY KNIVES.



QUINBY'S HONEY KNIFE.

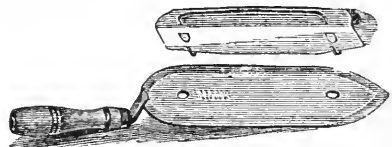
Price, 90c; 10 for \$8.50, per 100, \$75.00. By mail, 5 cents extra.



THE "NOVICE" HONEY KNIFE,

Price, 70c; \$4.50 for ten, or \$60.00 per hundred.

If wanted by mail, add 5 cents each for postage. Our honey knives are beautifully finished, with a solid ebony handle, are ground thin and sharp on both edges and have a long thin springy blade that is just as handy as can be, for a multitude of purposes about the apiary, aside from their legitimate purpose of uncapping. No hot water or anything of the sort is needed, to enable the blades to slice the caps right off in one entire sheet. Our preference is decidedly in favor of the straight blades.



BINGHAM & HETHERINGTON'S UNCAPPING KNIVES.

These are, perhaps, the best for uncapping only but are not suitable for cutting honey, transferring, etc. Price, \$1.00; \$8.50 for 10, \$80.00 per 100. By mail, 15c extra. Cap catcher, when wanted, 25c more. Mutn's Honey Knife, 50c; \$4.50 for 10, or \$40.00 per 100. If wanted by mail, 5c each extra.

HONEY STANDS FOR RETAILING.

For illustration see Sept. JUVENILE, 1882. Price complete (walnut, lettered and varnished), 1.00; 10 for \$7.50. In the flat, 60c; 10 for \$5.00.

LABELS FOR HONEY,

In blue and gold, dark bronze and gold, or in white printed in two colors, furnished with your own address, and source from which the honey was gathered, already gummed, post paid by mail, 1000, \$2.50; 500, \$1.75. In black ink on white paper, four-fifths above prices. No order received for less than 500. At these low

rates, the full number mentioned *must* be ordered without the change of one single letter of the type. If not sent by mail, 15c per 1000 less.

Same as above, except that source of honey, and name of bee-keeper is left blank, put up in packages of 100, assorted colors, for both comb and extracted honey.—Per package post paid, 25c.

LABELS FOR JONES'S HONEY-PAILS AND BOXES.

These are large enough to go around the can and ap, printed in five brilliant colors, similar to our finest fruit-can labels.

Size of Labels.	Price		Post- age	Printing Address		
	1000	100		1000	500	100
Labels for 5-lb. Cans.....	\$9.50	\$1.00	13c	\$1.00	\$.75	50c
" " 3½-lb. Cans.....	5.50	.60	8c	1.00	.75	50c
" " 1-lb. Cans.....	4.00	.50	6c	1.00	.75	50c
" " ½-lb. Cans.....	2.00	.25	4c	1.00	.75	50c
" " ¼-lb. Cans.....	2.00	.25	3c	.90	.70	50c
" " ⅓-lb. Cans.....	1.50	.20	3c	.90	.70	50c
Round, for ½-lb Tumblers.....	1.00	.15	2c			

Samples free.

CAUTION LABELS, FOR SHIPPING COMB HONEY, BEES, ETC.

Large gummed Labels, 5 x 7 in., printed in red ink, for shipping-cases for comb honey—per package of 25, 15 c. If wanted by mail, send 3 c. extra. Labels for shipping bees, 25c per 100.

Plain gummed labels, one color, for any purpose whatever, 50c per 250, 75 cts. for 500, or \$1.00 per 1000, providing size does not exceed 1 x 2 inches, and matter does not exceed 50 words. By mail, 5 c. per 1000 extra.

This Pkg. Weighs..... lbs.

The Crate Weighs..... lbs.

Net Wt. of Honey..... lbs.

LABELS FOR PASTING ON SHIPPING-CASE, SHOWN ON PRECEDING PAGE.

Take Notice!

This honey will candy, or become white and hard, as soon as it becomes cool, or cold weather begins, and this candying is, in fact, the best proof of its purity. To restore it to the liquid form, set it in a warm oven, or on the reservoir of the stove, removing the stopper and covers it will not ooze out. When it is all melted, remove and cork or cover again. If sealed up while quite hot, with a cork dipped in melted wax, (or with the inside of the cover waxed), it will usually not candy again. Some thicken it by placing the bottles in hot water. To prevent breaking the glass, let the bottles rest on a thin strip of wood.

Gummed labels, kept in stock, like the two samples above, 10 cts per 100, or 75 cents per 1000. A sample book of labels free on application.

LAMP NURSERY.

This is simply a hive made of tin, with double walls; the space between the two walls which may be from 3 to 1 inch, is filled with water, and this water is kept at an even temperature of about 90°, by a lamp under the hive. The lamp is to be enclosed in a box to avoid drafts, and the whole should be in a close room, to save the expense of oil. The tin hive is to be placed a foot or more above the top of the lamp chimney. When the oil is purchased by the barrel, the expense is but little more than one cent per day. Get your queen cells on the plan given in A B C, and when capped over, they may be taken away from the bees entirely, and the frame containing them hung in the nursery. If you have followed the instructions given, the queens will all hatch out long before the workers, and all you have to do is to place them in any queenless hive or nucleus, as soon as they are hatched. You need not open the hive to introduce them, but you can just let them crawl in at the entrance, and the loss will certainly be no greater than that of inserting queen cells. You can, if you choose, have several combs containing queen cells in the nursery at the same time, and when we can have queens hatching every day for weeks, we really enjoy the fun. It is easy keeping a supply of cells on hand, when we once get started, and we do not examine our nursery oftener than about five times a day. It will be observed that, with the lamp nursery, we have no cutting, or mutilating of our nice combs, as we do where we cut out queen cells. When the queens are old enough to begin to gnaw out, they can easily be heard by holding the comb

of cells next to the ear, and as they are ready to introduce as soon as they begin to cut out the caps, they may be safely taken out with a sharp pen knife, and put at once where wanted. They sometimes kill each other when crawling about in the nursery, but not often unless there are bees present. We have found a half dozen or more crawling about peaceably together on first going out in the morning, but they would be certain to kill each other, if left until a few hours older. Price of nursery, with lamp large enough to burn several days, including thermometer, \$5.00.

While queens just hatched can be safely introduced to artificial swarms just made, or to nuclei, a great many failures have been reported when they are let in where a laying queen has been just removed from a full hive. I give you this word of caution to prevent disappointment. It will be of no use to attempt introducing these queens by caging. Cover the nursery when in use with a quilt or folded blanket.

MAT FOR COVERING FRAMES.

I am sorry to say, that even the enameled cloth is, in time, eaten through by the bees, and it seems that nothing is going to hold them permanently but wooden boards. The boards, however, need not be very thick, or very wide. Our wooden mat, while it can not shrink so as to let the bees out at the ends or sides, can be rolled back, folded smaller, and adapted to the varying sizes of the hive with a division board, even better than any cloth. The strips are of basswood, and are 1-16 by ½ inch. They are woven in a loom, with hard hemp twine. Price 5 c.; by mail, 12c; odd sizes, 10c each. I do not like them, all things considered, as well as enameled sheets; but we sell a great many of them,—on account of their cheapness I presume. Hummed sheets of bur-lap, when preferred, same price.

HONEY BOARDS.

Made of ½ inch pine, cleated to prevent warping, same price as the mat.

MICROSCOPES.

These are real compound microscopes, and quite a different thing from the double and single magnifying glasses so often called by that name. They are only for minute objects, such as the eye or the sting of the bee. The one we offer for \$2.00 is a very neat instrument, carefully packed in a mahogany box, with the necessary implements for the work of taking regular lessons in studying the insect world. You will find, with it, that a single bee will make a study for a long time. Sent by mail for \$2.15, and if you are not pleased with it, you can return it at our expense, and the money will be refunded.

MOUNTED OBJECTS PERTAINING TO BEE CULTURE.

First-class 2¼ x ¾ inch slides, of Bee Sting, Eye, Foot, Tongue, Wing, Mandibles, etc., 20 c. each slide.

BOOK ON THE MICROSCOPE.

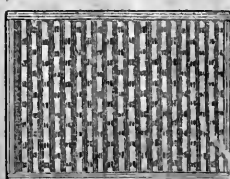
Wood's Common Objects on the Microscope, a beautiful book full of fine colored plates and engravings, sent by mail at the very low price of 50c.

OPERA GLASSES,

For Bee-Hunting (by mail, 10 c. extra)..... \$5 00

This is a beautiful instrument in Ebony finish and much superior to any Spy Glass or Telescope for the price, as both eyes can be used at once. A cheaper instrument, but excellent for the money; we can furnish for \$3.00. By mail, 10 c. extra.

PERFORATED ZINC FOR EXCLUDING DRONES.



ZINC HONEY-BOARD.

Price per square foot 18 cents; (postage 14 cts.), whole sheets, 3x5 feet, \$3.50. 11x20 ft. boards, of perforated zinc, for Simplicity, Langstroth, or Chaff hives, as shown in adjoining cut, 30 c. each; 10 feet, 25 cents each; 10 feet, \$2.75; 100 for \$25.00. These will keep the queen from the upper-story, and also keep the bees from sticking the upper and lower frames together.

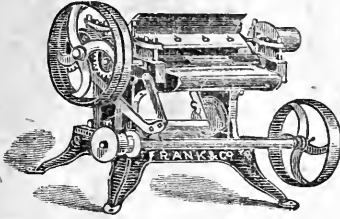
PORTICO, DETACHABLE.

Price 25c; by mail, 42c. These look very pretty on a hive, but are more a thing of taste than necessity.

PAINT FOR HIVES.

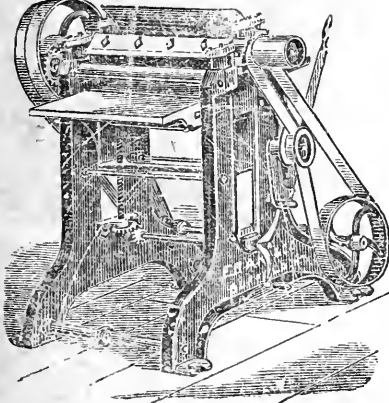
We have been using a grade of paint lately that is pure white lead with a little zinc. Mr. Gray pronounces it better for bee-hive work than pure lead alone. We can furnish it in 1-lb. tin cans at 10c each; 5-lb. tin cans, for 45c each; 25, 50, and 100 lb. kegs, at 7½c per lb. The 100 lb. kegs are cheapest, because they contain 100 lbs. aside from the keg, while the 25's and 50's do not. About 7 gallons of boiled linseed oil are needed for 100 lbs. of lead, and we can furnish the oil for 65c per gallon. If that is cheaper than you can get it (shipping expenses included), you can order it in our regular honey-cans.

PLANING MACHINES.



CIGAR-BOX PLANER.

Price of 12½ inch.....	\$75 00
" 9 ".....	60 00
" Counter Shaft.....	12 00



GEM PLANER.

This is a new pattern of planer, combining many points of the Pony, some of the Lilliputian, and some not possessed by either. It has two feed-rollers, one before and one behind the cutter-head. It has two speeds of feed, obtained by the use of cone pulleys. It is very easily adjusted, requiring the tightening and loosening of no bolts or screws to change for different thicknesses of planing. It works well on either hard or soft wood. Four sizes are built, to plane 12½, 16, 18, and 20 inches wide, and up to 6 inches thick. Prices are \$95.00, \$100.00, \$107.50, and \$115.00 respectively; countershaft, \$15.00 more.

PONY PLANERS.

Sizes, 16, 20, and 24 inch; prices, \$130, \$145, and \$165. For full particulars of these Planers see GLEANINGS for March, 1881.

The above are factory list prices, from which we make a liberal discount for cash. Further particulars on application.

QUEEN REGISTER CARDS.

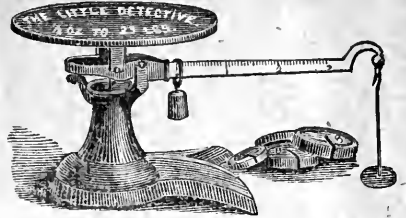
Mailed free, at 5c for 10, or 40c per hundred.

SALICYLIC ACID, FOR FOUL BROOD.

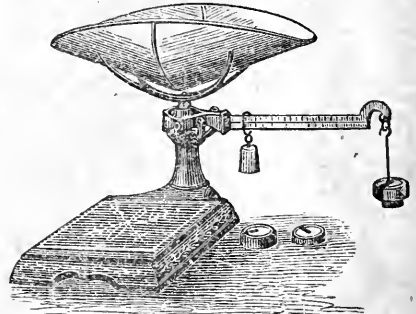
The method of treatment is given in the A B C book. Price per oz., 50c. Sent by mail at the above price.

SCALES.

"Little Detective" Scales. This little Scale is made with Steel Bearings and a Brass Beam and will weigh accurately any package from ¼ oz. to 25 lbs. It is intended to supply the great demand for a Housekeeper's Scale. It is hardly as rapid a



weigher as the "Favorite," and does not, like it, take off the tare; but it weighs a smaller quantity, does it rather more accurately, under all circumstances, and costs \$100 less. Every scale guaranteed perfect. Thousands are used by Post Masters. Price, \$2.50. Not mailable. Scoop added 50c more; 2 scales, \$4.80; 3 for \$7.00; or \$2.25 each for 5 or more.

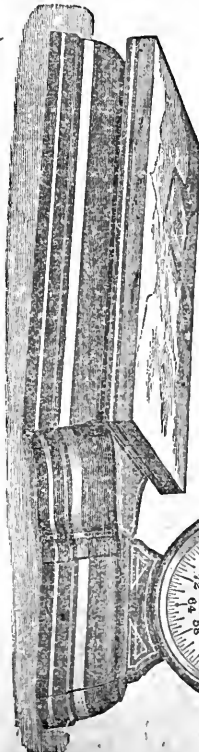


Chattillon's Make.

Our 244-o. Scale.

A similar scale, with both platform and scoop, steel bearings, capacity from ½ oz. to 244 lbs., only \$4.50. Two scales, \$8.50. Dozen rates on application. This is a good, accurate, serviceable scale. The same with double beam, for taking tare, ¼ more. Weight, of above, boxed, ready to ship, about 50 lbs.

SCALE FOR BEE-KEEPERS. PRICE \$14.00, BOXED READY TO SHIP.

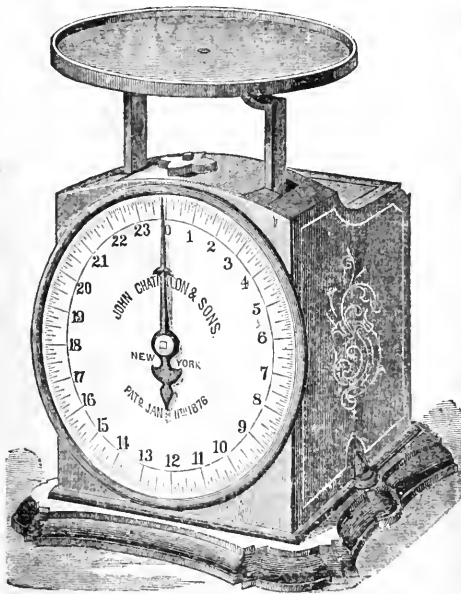


OUR NEW BEE-HIVE SCALE.
 Can be set so the pointer stands at 0, when the bees start in the morning, and you are thus enabled to see just how many flying bees the hive contains, and just how much honey is brought in during the day.
 This is made by our great scale man, Chattillon, and will weigh from ¼ lb. up to 125 lbs. One of them is now in the office, and, by setting it on the floor we can weigh the girls (the most of them) as fast as they can step on and step off from the platform. Of course, it will weigh boys too, providing they do not weigh over 125 lbs. In fact, it will exactly weigh me with coat and hat off, as I work at the type-writer.

Where a great many things are to be weighed, such as hives of bees, or boxes of honey, etc., it will weigh them as fast as we can readily set the weights down with a book and pencil. Above, we give a cut of the same.

The scale can not be injured by an overstrain, because the platform strikes the castings after it has been loaded down to the 150 lbs. or thereabouts I have mentioned. The smallest divisions on the dial are $\frac{1}{4}$ lbs.; but with practice we can get at 2 oz. pretty accurately, so it will answer for all practical purposes in weighing honey. As the whole machine is only 33 lbs. in weight, it can be readily lifted by its convenient handles from floor to counter, and *vice versa*, as occasion may require.

Who has not felt what a nuisance it is, to be obliged to weigh the plate, pail, or dish, in which honey is wanted, and then to subtract this weight from the gross weight of the whole, without making mistakes. Many times, I forget to weigh the dish a neighbor has handed me; at other times, unless I put it down with a pencil, I forget how much the plate weighed; and then, most humiliating of all, I have to confess I make mistakes in subtracting. More than this, there seems to be a kind of fatality in my mistakes, for they are almost always — so it seems — in my favor; and then my friends have some reason for thinking that I made them on purpose. Very well; now suppose a customer brings a piteher for some honey. Set it on the scale, and the pointer sinks, until it tells the weight of it. Pay no attention to this, but turn the screw until the pointer again stands at 0; now you are ready to let your honey run in until the pointer tells the number of pounds he asked for.



THE FAVORITE FAMILY SCALE.

This is a beautifully finished, accurate instrument for weighing honey, or any thing else; and it will weigh as close as a half-ounce without any trouble. The screw for adjusting the tare is right under the platform. Two sizes are furnished, weighing respectively 12 and 24 lbs. They ordinarily sell for \$4.00 or \$5.00; but I have made arrangements such that I can furnish the smaller size for \$3.00, and the larger for \$3.50; 2 or more, 10% off. These are not available. See "Little Detective" scale on preceding page.

SAWS, PRUNING.

For taking down swarms. These have holes in the handle so they can be bolted to a pole, if the swarm is high up; when the limb is nearly off, it can be eased down with a pitchfork. Price of the 18 inch saw, 75c. This will be sent by mail for 18c extra. These are the celebrated Boynton Lightning saws, have teeth on both edges, one fine and the other coarse, and will cut boards or anything of the kind with wonderful ease and rapidity.

SEEDS OF HONEY PLANTS.

A brisk demand has sprung up for these, and whether or not they really pay, for honey alone, is a question upon which I am not yet fully satisfied. I have no doubt but that buckwheat, rape and alsike clover, sometimes yield honey enough to pay all expenses of cultivation, aside from seed, hay, etc.; but I very much doubt whether any one ever got enough from mignonnette, motherwort, catnip, etc., to pay for the labor of raising the crop. Notwithstanding all this, I believe in raising honey plants just for the fun of seeing the bees work on them, if nothing else.

I have for years had dreams of a honey farm, with acres of flowers of different colors, blooming at different seasons, and keeping the bees away from the stores and groceries when we have a dry spell in the fall. The dream has been partially realized with the Simpson honey-plant, Mollie O. Large's spider plant, and the seven-top turnip, and I am pretty well satisfied it will pay to cultivate these for honey alone. Mignonnette, catnip, motherwort, borage, mellilot, and some others, I have tested, but am still doubtful in regard to them.

LIST OF HONEY PLANTS.

We purchase, all, or nearly all the seeds mentioned here. Mail us sample, of what you have, or wish to furnish, and tell us how low you will sell it.

ALSIKE CLOVER.—Can be sown almost any time, but perhaps gives best results for seed, when sown in April or May. About 4 lbs. are required per acre, and it does not blossom much, until the second year. Its treatment and cultivation are much the same as for common red clover, but the seed is saved from the first crop. Fresh seed raised near us, so that we know it is free from dangerous seeds, price per lb. 30 c; per peck, \$4.25; per half bushel, \$8.00; per bushel, of 60 lbs., \$15.00. If wanted by mail, add 18c per lb. for bag and postage.

BORAGE.—A strong, hardy, rapidly growing plant, bearing a profusion of blue flowers. It may be sown any time, but will, perhaps, succeed best, at about corn planting time. As it grows tall, and branches out considerably, it should have plenty of room. I know that bees are very busy on it, all the day long, from July until Nov., but I do not know how much honey an acre of it would furnish. It is easily tried, because it grows so readily, and if sowed on the ground after early potatoes are dug, you will get a nice crop of fall bloom. Sow broad cast, or in hills like corn. Price 10c. per oz., or \$1.25 per pound. If wanted by mail, add 18c. per lb. for bag and postage.

BUCKWHEAT.—I think we shall have to regard this as a safe investment generally, for artificial pasturage, although, in many localities, it yields honey only occasionally. About 3 pecks per acre are usually sown, and it may be sown in April, May, June, July, or even August, but in the latter month, it would usually furnish only blossoms for the bees, and no seed.* If you want much honey, you must have good soil. We can furnish the common kind for \$1.50 per bushel, 40c per peck, or 4c per lb.; the Silver Hull or Gray for \$1.75 per bushel, 50c per peck, or 5c per lb. If wanted by mail, add 18c per lb. for bag and postage. The two last usually yield the most honey and the most grain.

CATNIP.—This has been very much talked about, and we have record of some experiments with an acre or more, but if I am correct, no one has ever yet seen a barrel of catnip honey. Still, some one may raise catnip honey by the barrel, and make money at it. If you wish to try, we can furnish you good seed, that we have tested ourselves, for 10c per oz., or \$1.00 per lb.; 18c per lb. extra, if wanted by mail. Sow in the fall.

CLOVER.—The best honey in the world, all things considered, is, without doubt, that obtained from white clover. White Dutch clover is said to be a little larger than the common white, and, as it is pretty difficult to save the seed from the common, nearly, if not all, the seed in the market is White Dutch. Price per lb., 30 c.; per peck, \$4.25; per half-bushel, \$8.00; per bushel of 60 lbs., \$15.00. If wanted by mail, add 18 c. per lb. for bag and postage.

SWEET CLOVER (*Melilotus alba* or *Melilot*).—This has some valuable traits, as standing frost and drouth, but many times and seasons, the bees will hardly notice it at all. The statement has been made that an acre will support 20 colonies of bees,

*On the 15th of Aug. 1882, we sowed four acres of Gray buckwheat, and got 92 bushels of nice grain in sixty-five days. We offer seed from this crop, price same as Silverhull.

and afford from 500 to 1000 lb. of honey. Such statements, although they may be honestly given, I think should be received with due allowance; about four pounds of seed are needed for an acre; sow like Alsike. It will grow on almost any barren hillside, but it is a bad weed to exterminate; if, however, it is mown down to prevent seeding, the roots will soon die out. Sow in spring or fall. We have about a half-acre on our honey-farm, but it is far behind the Simpson honey-plant in this locality.

Common Sweet Clover, per lb., 25 c.; if wanted by mail, add 18 c. for bag and postage.

Bekhara clover, seed received from D. A. Jones; 50 per oz., or 50c per lb. If by mail, add 18c per lb.

Cornelia, bee clover. The latter blossoms in about six weeks after sowing, but the former not until the second year.

Price of seed, 10c per oz., or 75c per lb.; if wanted by mail, add 18c for bag and postage.

Dandelions.—I presume every body can get dandelion seeds and roots without buying them, but for all that, I have much faith in an acre of cultivated dandelions. Vilmond's improved, is superior for "greens," and by the way our bees take to our "patch" of it, I think it must be superior for honey. Price of seed, 5c per package, or 35 c. per oz.

FIG-WORT, OR SIMPSON HONEY PLANT.—This is a queer tall weed that grows in fields and woods, and bears little cups full of honey. It has produced so much honey under cultivation on our honey farm during the past two years, that I am much inclined to place it at the head of the list of honey-plants. It bears honey all the day long from July to October. Very hardy; blooms first year, and after that shoots up from the root every year, but needs planting anew, about every three years. The seed sometimes lies in the ground many months before germinating. If sprinkled on the top of damp leaf-mold, packed hard in a box, and rolled hard, being kept dark and damp in a warm place, they will sprout in a week or two. They give all the light and air possible, but not too much water. Price of seed, from cultivated plants, 20c per oz., \$2.00 per lb. If by mail, 18c per lb. extra, for postage.

An early variety of the above blossoming between fruit blossoms and clover, we are now prepared to furnish in 5c packages.

HONEY PEA.—This is the stock pea of the South, and often yields much honey. It is also used for food. Price, \$1.75 per bushel; \$1.00 per half-bushel; 60c per peck, packages included. By mail, postpaid, 20c per pint.

LIPPIA NODIFLORA.—For description see Dec. '79 GLEANINGS. Per oz., \$1.00. Per pkt., 5c. Give hot-bed treatment.

MIGNONETTE.—This is a great favorite with the bees, and also with those who are raising plants for their bees; but, although we have sold considerable of the seed for bee pasturage, I am not sure that any one has ever made it pay in dollars and cents, for the honey alone. It will pay, without any doubt, to raise the seed, especially if the price keeps up any where near what it is now; but for honey alone—who will demonstrate its value beyond doubt? The tall varieties seem best suited to the bees, but are not as fragrant. It should be sown in the spring, and as the seed is small, it should have fine clean soil, and be covered lightly. This plant seems to have a rare capacity for standing frost, and bees may often be seen busy upon it clear into October.

The seed is 20c per oz., or \$1.40 per lb. If wanted by mail, add 18c for postage.

MOTHERWORT.—This is a near relative of the catnip and is probably equally valuable as a honey plant. Prices of the seed, same as for catnip. Sow any time.

MUSTARD.—We sent all the way to France for Chinese mustard seed, but, after we got it and had it in bloom, the bees did not care half as much about it, as for our common white mustard. We can furnish the common, (either white or black) for 5c per oz., or 25 c per lb. Add 18c per lb., if to be sent by mail.

RAPE.—Rape pays well to raise for seed alone, because it is used for making oil; we have also had many reports of its great value as a honey plant. The great trouble with it, in our locality, is the black flea. The first leaves of the plant are eaten off almost the moment it appears above ground, and sometimes a whole acre will furnish scarcely a blossom. If sown in July, it will generally escape this pest, as it usually comes earlier in the spring. About 3 lbs. of seed are needed for an acre, and it is sowed broad cast like turnips. It frequently blossoms

within 4 weeks after being sown. It keeps in bloom nearly 4 weeks, and gives great quantities of beautiful honey, when all things are favorable. The price of seed is 5 c. per oz., or 15 c. per lb.; 10 lbs. or over, 10 c. per lb. If wanted by mail, 18 c. extra.

RASPBERRY.—A pretty good honey plant, too well known to need description. The Red Raspberries are thought to yield most honey, and of these the Turner and Cuthbert varieties are said to be best. Price of plants, per dozen, by mail, 75c; per hundred, by express, \$3.00.

ROCKY MOUNTAIN BEE PLANT (*Cleome integrifolia*).—Is closely connected with the noted Snider Plant (*C. nummularia*), these two being the only species of the Cleome. With us, it is much inferior to the Snider Plant as a honey producer. We have reports from some localities of its yielding large quantities of honey, hence, quite a demand for the seed is the result. Price per lb., \$1.25, postage 18c. extra. Per ounce, 15c.

SAGE, WHITE (*Salvia argentea*).—Is called the honey plant of California, and belongs to the Labiate or Mint family, the same as Rosemary, Balm, Hoarhound, &c. Price per ounce, 50c.

SPYFLOWER.—This plant is visited by the bees in great numbers in some seasons, while, in others, it is scarcely noticed; but, as the seeds usually pay all expenses of cultivation, it holds its place as a honey plant. The mammoth Russian bears by far the largest blossoms, as well as the largest seeds. Price of seed 5c per oz., or 20c per lb.; if wanted by mail, add 18c for bag and postage.

SPIDER PLANT.—This plant, under favorable circumstances, yields more honey than anything that ever before came under my observation.

In Oct., 1879, each floweret yielded drops so large that a bee had to make two or more journeys to get it all, and I succeeded in dipping the honey from the plant with a spoon, until I half filled a bottle with it, for experiment. As it only yields this honey early in the morning, and late in the evening, it will go nicely with the Simpson honey plant. I should think it quite probable that 5 acres of each of these plants would keep 100 colonies busy enough to be out of mischief during a dry fall, when bees are so apt to be robbing. For particulars concerning both plants, see GLEANINGS for Aug., Sept., and Oct., 1879 and 1880, and A B C.

The Snider plant is an annual, and should be sown every year. It grows most quickly with hotbed treatment, but will blossom in August if sown in the open ground in May.

Price of seed—per package, 5 c.; per oz., 10 c.; per lb., \$1.00. Postage 18c per lb. extra.

SEVEN TOP TURNIP.—This plant, although not equal to the spider plant and Simpson honey plant, is entitled to a place next to them, because it bears its crop of honey in the spring, between fruit blossoms and clover. It should be sown in Aug. and Sept. It bears no root like the ordinary turnip, but only foliage that is used for greens. Price of seed, 5c. per oz., or 50 c. per lb. If wanted by mail, 18 c. per lb. extra.

SORGHUM, EARLY AMBER.—This is not strictly a honey-plant, but sugar can easily and cheaply be made from it, for feeding bees or other purposes. About 6 lbs. (4 qts.) are wanted for an acre of ground. Price best southern-grown seed, per oz., 5 c.; per lb., 15 c. If wanted by mail, 18 c. per lb. extra. A sample of the sugar is sent with every package of seed.

Any of the above seeds will be sent in 5c packages, to those who would like just a few to try.

OTHER HONEY PLANTS.

The following are recommended as honey plants, but I have not thought them worthy of a more extended notice for cultivation. Some of them have been tried on our grounds but either yielded no honey at all, or very little, and I have thought best to put them in here until we could give them a more extended trial. We keep the seed for sale in 5c packages; if larger quantities are wanted, we will give prices on application.

ASTER (Starwort).—A large genus, comprising several hundred species, and belongs to the same family as Golden Rod, Banaset, Sunflower, and other well known honey plants.

"BLACKHEART" (*Polygonum persicaria*).—A large variety of Smartweed belonging to the Buckwheat family. If I am correct this is also called Heartsease.

BIG BLUE FLAG (*Iris* or *Flower de Luce*).—A perennial, about 2 feet in height, comprising but few wild species, and grows better when cultivated.

CACALIA OR TARSSEL FLOWER (*Senecio sonchifolia*) From India; cultivated as a summer annual.

CLOVERS, foreign.

ALFALFA, grown principally in the Pacific States. (This is virtually the same as Lucerne). Prices same as Alsike clover.

ITALIAN OR SCARLET (*T. incarnatum*), introduced from Italy and France. The flowers are most beautiful, much resembling a large luscious strawberry. Blossoms first year.

LUCERNE OR FRENCH (*Medicago sativa*), best for sandy soils.

YELLOW TREFOIL (*Medicago lupulina*), a weed or pasture plant, in dry or sandy fields.

ERSIVIMM (False Wall Flower).—Belongs to the Crucifere or Mustard family, and comprises but three species.

ESPARCETTE OR SAINFOIN (*Hedysarum onobrychis*). Usually classed with the clovers, as it belongs to the same family (Leguminosae or Pulse) as the Clover, Pea, Locust, &c.

FULLER'S TRASEL (*Dipsacus fullonum*).—A variety of tussel, usually cultivated; is valuable for carding woolen cloth, as well as for honey.—See A B C.

GOLDEN ROD (*Solidago*).—Belongs to the Composite family, and comprises a large variety of fall blooming plants.

HOARIBOUND OR MADWORT (*Marrubium vulgare*). Only this one species is common to America; was introduced from Europe and belongs to the Labiate or Mint family.

HYSSOP (*Hyssopus*).—Only one species (*H. officinalis*), and belongs to the Mint family; is cultivated, and was brought from the Old World.

MONARDA PUNCTATA (Horse Mint).—Belongs to the same genus as wild Bergamot (*Monarda* or Balm); grows well only in sandy soil.

MOLLIE HEATH honey plant, a species of acacia, having a most beautiful ornamental foliage, and called a very valuable honey-plant. We have never yet got it to blossom here, but the beauty of the plant pays for cultivation.

PHACELIA (Name derived from Greek word meaning cluster; it has no common name).—Flowers in spring or summer, and belongs to Hydrophyllaceae or Waterleaf family.

SPANISH NEEDLES (*Bidens bipinnata*).—Grows in waste grounds from Conn. to Ill., and south, and belongs to that immense family, Composite.

SPRING VETCHES OR TAKES (*Vicia sativa*).—Seems to be a cross between the Pea and Clover, partaking of the peculiarities of each, and belongs to the same family, Leguminosae. Does not yield honey with us.

VERBENA HASTATA (Blue Verbena).—Grows to a height of 3 or 4 feet, and thrives in almost any kind of soil, if not too dry or sandy.

WHITEWOOD, TULIP, OR POPLAR (*Liriodendron tulipifera*).—A tall and handsome tree, usually planted for ornament, and valuable for shade and timber, as well as for its honey producing blossoms. See BASSWOOD TREES.

SECTION HONEY BOXES.**SIMPLICITY SECTION BOX.**

The honey box or section now most in use both in this and foreign countries seems to be the Simplicity 1 lb. section, $4\frac{1}{4} \times 4\frac{1}{4} \times 1\frac{1}{2}$ inches. This size of section, together with the manner of putting 8 of them in a Langstroth frame so that two tin separators cover the whole of them, was originated by myself. The size seems to please best, because most goods are sold in packages of about 1 lb., and the square shape is just right to put on a plate, without having the honey reach over it, so as to endanger daubing other articles.

OUR NEW "ALL-IN-ONE-PIECE," OR GRAY'S SECTION.

In folding these, be sure that you make the top and bottom come between the sides. If the lumber is very dry, it may be well to brush the corners slightly with water to prevent breaking.

The sections we now offer for sale are made of white basswood, and are all in one piece. They are folded up and driven together with a light mallet, about as quickly as you can seal an ordinary envelop. A sample with a strip of our thin fdn. for surplus honey will be mailed for 5c. They are put up in packages of 500, and, if you wish us to break packages, we shall have to charge you a little more. Prices are as follows:

PRICE OF SIMPLICITY ($4\frac{1}{4} \times 4\frac{1}{4}$) SECTIONS.

Any number less than 500, $\frac{2}{3}$ c each; from 500 to 5000, in whole packages of 500 each, \$5.00 per 1000; 10,000, \$47.50; 100,000, \$450.00. Closed top sections (for the story and a half hive), same prices.

The section with the V shaped groove, if

accidentally broken, can not be nailed, or at least not easily; ours, if broken by carelessness or otherwise, can be quickly and handsomely nailed, with the $\frac{3}{8}$ inch wire nails. The sections weigh about 50 lb. to the package of 500. Sections dovetailed all round \$3.50 per 500, or \$6.50 per 1000.

WIDE L. FRAMES TO HOLD 8 SECTIONS.

Langstroth frame, made 2 inches wide, to hold 8 of the above sections, 4c. (sample by mail, 10c.); the same with the 8 sections in it, 10c.; the same furnished with fdn. starters, 15c.; with the pair of tin separators also added, 20c. (See engravings on first page, Nos. 12 and 13. Sample by mail, 45c.) These wide frames all complete, ready to hang in the hives, as above, will be \$18.00 per hundred. Materials for the above, in the flat, as follows:

WIDE FRAMES TO HOLD SECTIONS, IN THE FLAT.

Dovetailed together, like the all wood frames, per hundred, \$5.00; per thousand, \$25.00. The same one-half depth, to hold only one tier of sections, \$2.50 per 100, or \$20.00 per 1000.

WIDE L. FRAMES TO HOLD 6 SECTIONS.

Wide L. Frames to go crosswise of the hive, holding 6 sections instead of 8, in the flat, per 100, \$2.75. The same put together, complete, with sections, starters, and separators, each 17c; per 100, \$16.00; 25c extra for crating 100 or less, when sent without hives to hold them. Odd sizes wide frames to hold sections, one-fourth more, but must be ordered in lots of 100 or more.

SECTION BOXES OF OTHER DIMENSIONS.

In ordering, be sure and tell which is top, and which is sides. No order taken for less than 500.

Any dimensions of sections, from the Simplicity up to the so called prize sections ($5\frac{1}{4} \times 6\frac{1}{4}$), will be 50c per thousand more than the Simplicities. For sizes still larger, add 10c per thousand for each additional cubic inch of contents, outside measure. The dimensions above, $5\frac{1}{4} \times 6\frac{1}{4} \times 2$ give about 66 cubic inches. Now, if the dimensions of the section you want multiplied together produce 66 cubic inches or less, the price will be 50c per thousand more than for the regular Simplicities. If it produces more than 66 cubic inches, add 10c for each cubic inch more than 66. Sections, so made that six will fill an L. frame, \$5.50 per M. We can not make our all-in-one piece section larger than 24 inches around.

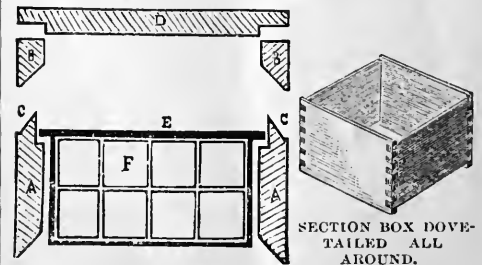
For nails for nailing above and for putting on the separators, see HAMMERS AND NAILS.

NAILED SECTIONS.

Material for nailed sections, in the flat, will be no less than our all-in-one-piece section. The same, as the saw leaves it, not planed, 50c per thousand cheaper still. This brings the original Prize Section (for nailing) at \$5.00 per thousand unplanned.

TIN SEPARATORS.

For the wide L. frame, per hundred, \$1.75, or \$16.50 per 1000. For separators for the 3-frame box (or for the crosswise L. frame holding 6 sections), per hundred, \$1.25, or \$12.00 per 1000. Separators, pierced with $\frac{3}{8}$ holes, double above prices. Wooden separators, $\frac{1}{2}$ price of above.

**SECTION BOXES AND THEIR POSITION IN THE HIVE**

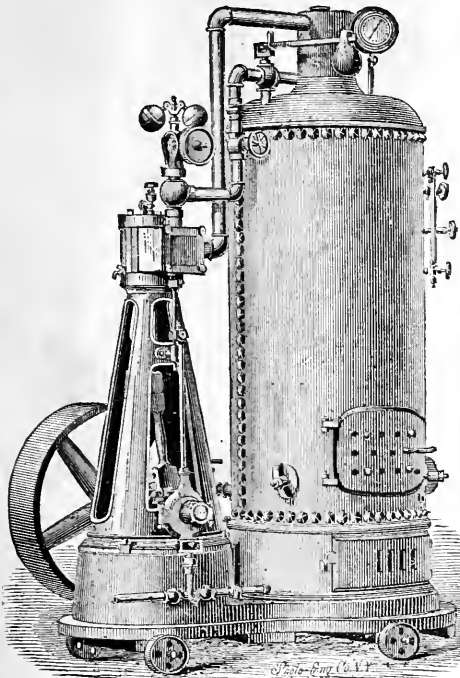
The above cut and the cuts on the cover, will make everything plain, almost without explanation. As we send a complete section box with nice strip of fdn., and printed directions for fastening it in the frames, by mail, for 5c., we will not attempt any description here. The cut on the left, shows one of the wide frames containing 8 sections, and A, A, are the ends of the hive. B, B, are the end strips that are nailed under the cover of the hive, and D is the cover itself, before being nailed on to B, B. C, C, shows the shoulders that hold the cover on the upper stories, while the bevels hold it securely in place, and exclude rain and wind.

CASE FOR THREE SECTION BOXES.

A case of 3 section boxes, separator and fdn. complete, ready for the hive, 7c; per hundred, \$6.50; sample by mail, 18c. This arrangement is intended for box hives, or for tall frame hives. If preferred to the frames, they can also be used on the L. hive, as seen on page 20. This arrangement is essentially the same as the one used by Doolittle and Betsinger. Three box cases, per hundred, in the flat, \$2.25; with separators included, \$4.00.

STEAM ENGINES FOR HIVE-MAKING.

They are mounted on wheels, rendering it convenient for moving, and are complete in all parts, except the smoke stack, which should be a 6 or 8 inch stove pipe.



ECONOMICAL, NON-EXPLOSIVE.

TESTED TO 300 LBS. PRESSURE.

The different parts are interchangeable.

DIMENSIONS AND PRICES OF NOS. 1 AND 2.

No. 1. TWO HORSE POWER.		No. 2. FOUR HORSE POWER.	
Diameter Cylinder	3½ in.	Diameter Cylinder	4 in.
Stroke	4 in.	Stroke	5 in.
Height of Boiler	4 feet	Height of Boiler	56 in.
Soft Coal for ten Hours	75 lbs.	Soft Coal for ten Hours	100 lbs.
Floor Space	48x25 in.	Floor Space	56x30 in.
Revolutions per Minute	300	Revolutions per Minute	300
Diameter of Balance Wheel	15 in.	Diameter of Balance Wheel	20 in.
Width of Face	3 in.	Width of Face	4 in.
Weight of Engine and Boiler	900 lbs.	Weight of Engine and Boiler	1,600 lbs.
Price of Boiler, without fixtures	\$ 75.00	Price of Boiler, without fixtures	\$125.00
Price of Engine & Boiler complete	\$175.00	Price of Engine & Boiler complete	\$275.00

BOTH ENGINES HAVE HEATERS.

The way in which these boilers are made, renders it practically impossible for them to explode. In all we have sold of them, there has never been heard a word of dissatisfaction.

The following facts relative to these engines will be found useful: They can be started on five pails of water to fill; they have glass water-gauges; they have two gauge-cocks; no steam-whistle; the cylinder is easy of access; the boiler-plate is cast-iron, tested to 300 lbs; the boiler has no pipes; it would take about 20 lbs. of steam to run a scroll-saw; it is simple, and easy to operate; for running lathes, planers, etc., from 40 to 100 lbs. may be used; about 80

to 90 lbs. of coal and 60 to 70 gallons of water per day are required. It has an automatic cut-off, and is a good little machine.

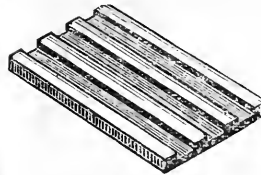
SIGNS,

TO HANG IN YOUR DOOR YARD.



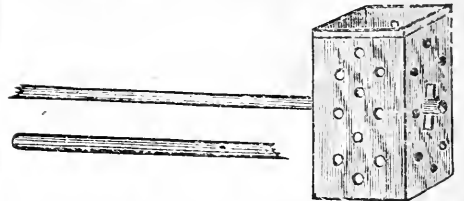
Signs 4½x18 inches, with the words "Honey for Sale," and "Bees and Queens for Sale," painted in bright colors, the board lined with tin to prevent warping, for only 25c each; if sent by mail, 35c. A sign of the same kind, saying "This Property for Sale," same price.

SPACING BOARDS.



These are for fastening movable combs for shipment. Six of them will fasten nine combs in a Simplicity hive, and a pair, will be right for a 3-frame nucleus. As they can be used over and over again, they are a great convenience. Price 3c each, 25c. for 10, or \$2.50 per 100. By mail, 7c. each extra.

SWARMING OR HIVING BOX.



For taking swarms down from trees, or other places where they may chance to cluster. Simply hold the box in the cluster, or where the bees are clustering, and they will crawl into it at once, and may then be carried where you choose and shaken in front of the hive.

Price, all complete, with pole, the whole neatly painted, and bound with iron to avoid splitting, 75c; in the flat, 50c; without pole, 10c less. The box can be sent by mail in the flat for 90c.

SMOKERS.

"Which is the best?" keeps coming from all quarters. Candidly, I do not know. I do not know which is the best bee hive, or which is the best bee journal, or bee book, and I do not know how I should know which is the best smoker. I can very easily tell you which smoker I like best, but it does not follow, by any means, that everybody else will think as I do, and were I to declare broadly that my things are better than any body's else, I am really afraid I should not sleep well nights.

For the past few years, we have sold two styles of smokers, of our own make, and the sales of them have amounted to many thousands. These two were invented almost simultaneously, one by John G. Corey, Santa Paula, California, and the other, by Norman Clark, Stirling, Illinois, each inventor being ignorant of what the other was doing. Both gave their inventions to the beekeepers of our country. The sliding door for putting the fuel in is an invention that enables us to light the smoker almost instantly, with a match, which is quite an improvement over those necessitating a coal of fire. The strip of sand paper,

glued to the bellows, on which to light the match, is the suggestion of Mr. S. H. Hough, of Rootstown, Ohio. At present I believe the Clark smoker has the preference. It may be made a direct draft instantly when starting the fire by simply placing finger over the nozzle. During 1882 we sold over 3,000, and in 1883, over ten thousand.

Smoker complete, by mail 70
The same by express, or with other goods by freight..... 50

Your smoker should of course be kept in doors out of the rain, but if you are careless and get some part of it broken or injured, we can send you the different parts at the following prices. The postage is given in the left-hand column.

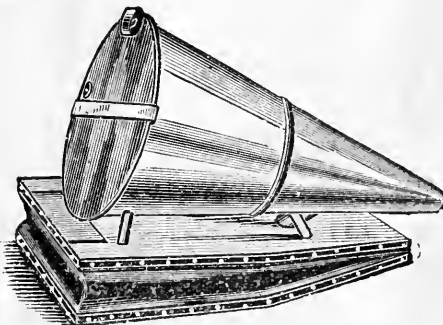
10 | Bellows complete.....\$ 25
10 | Tin case for fuel..... 20
1 | Leather for bellows..... 10
2 | Coiled wire spring..... 5
This spring is to be put on the outside, and can be quickly attached to any smoker. Ten, 45c; 100, \$1.00.
15 | Leather for bellows, per side..... 75

SMOKERS AT WHOLESALE.

Crate of five, \$2.00. If wanted by mail, add \$1.00 for postage. One hundred, \$35.00.

FUEL FOR SMOKERS.

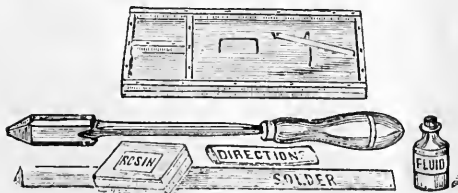
Perhaps the nicest thing we have tried is very dry, rotten elm wood. This lights instantly with a match, and gives a dense cloud of smoke. It burns out rather rapidly, but not nearly as fast in the cold blast smokers as in those where the blast is directly on the fuel. Cotton rags are excellent, but more expensive than the rotten wood. Peat is perhaps the best thing where it can be obtained in plenty. Corn cobs hopped up, and dried in an oven, make much smoke, and are perhaps more lasting than anything



CLARK'S COLD BLAST SMOKER.

else. Peat and elm wood, we keep put up in 5c packages. If sent by mail, 10c. Rotten elm wood, per bushel, 50c; per barrel, \$1.00.

SOLDERING IMPLEMENTS.



A full sized soldering iron ready for use, 35c, with a box of rosin 5c, box of soldering fluid, 10c, short bar of solder, 10c, and full printed instructions for use. Soldering board, all rigged ready for work, 15 cts.; total, 75c. By mail, \$1.00. Omitting the board, \$1.00.

OUR 50C. SOLDERING "KIT." (No soldering board.)

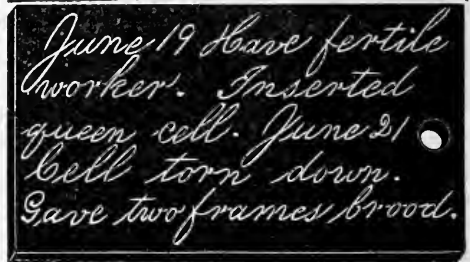
These are less than half the size of the above, but are very handy for small work. Postage 23 c. extra.

STAMPS, RUBBER DATING AND ADDRESSING,

For prices, see any number of GLEANINGS.

SLATE TABLETS.

Even if you do use the queen cards, these are so handy, I would have one hung on a tinned nail driven into each hive. Where anything unusual happens, it can easily be noted; as, for example, the case I have given below. Size 1 1/2 x 2 1/2.



Price of the slates, 1 1/2 c. each; if sent by mail one cent must be added for postage. If you take a hundred, you can have them for \$1.25. Wet the slate before writing, and if you use our colored pencils (5 c. each, or 6 c. by mail), the writing will stand all winter uninjured.

SUGAR

FOR FEEDING BEES, OR OTHER PURPOSES.

I have named the sugars in order of their value, so far as I can judge, giving the best first. As to which will give most value for a dollar, I can not say positively, but am inclined to think the granulated the safest, all things considered. All are fit for and in common use, for table and cooking purposes. Of course, the best will probably be safest for feeding up for winter.



The prices given are for the date of this price list; of course sugars are subject to the fluctuations of the market, to some extent.

- CUT LOAF SUGAR, Per lb., 10 1/2c. Per barrel, of about 275 lbs., 10c.
- GRANULATED SUGAR, Per lb., 10c; by the barrel, 9 1/2c.
- COFFEE A, Per lb., 9 1/2c.; by the barrel, 9c.
- EARLY AMBER SUGAR, Per lb., 6 1/2c.; by the barrel, 6c.
- MAPLE SUGAR.

As this varies greatly in quality, as we get it from the farmers, we have put in four grades at 9, 10, 11, and 12c per lb. By the barrel of about 250 lbs., 1c per lb. less. We are usually short on the 12 and 13c grades; the bulk of what we get being 10 and 11c. The maple sugar, as well as the cut loaf, can be placed over the frames, and fed like candy, but all the rest of the above have to be made into either candy or syrup for feeding bees. Maple molasses in tin cans, called 1 gallon, but really about 3 1/2 qts., \$1.00 each. This is pure maple molasses right from our Medina Co. farmers.

SAP-PAILS: PRICE PER 100.			
	Common Tin.	Charcoal, 1C Tin.	Charcoal, 1X Tin.
10-quart.	\$16.50	\$18.00	\$20.00
12-quart.	\$18.00	\$20.00	\$23.00

Tin covers for above, \$4.50 per 100.
Spiles, best re-tinned, \$1.25 per 100, or \$11.50 per 1000.

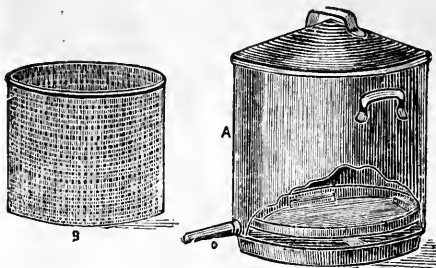
Sugar should always be ordered by freight; it will not pay to have it sent by express. A barrel will be by far the cheapest, for it can then be sent at a low rate of freight; and if you can not use it all, your neighbors will almost always take it of you at a small profit. Samples by mail for 5c each of any of the sugars. Sugar by the barrel will be sent from N. Y. City, except Maple and Amber. These will be shipped from here. Sugar is sent from any of the large cities at a very low rate of freight.

Powdered sugar, very pure, expressly for making the Good candy, per lb. 12c; 10 lbs. 11½c; 100 lbs., 11c. This when simply saturated with honey, makes the best candy I know of, for wintering, feeding, queen-cages, or any other purpose.

TENT FOR SETTING OVER A HIVE.

These are for the purpose of enabling us to go on with such work as introducing queens, transferring, etc., when robbers get so troublesome that we could not go on with work otherwise. After the middle of July we are obliged to use them almost constantly in our apiaries, and we could not possibly get along without them. They are made so as to fold up to put away, or for transportation, and weigh only about 6 lbs., all complete. The price is \$1.50. You can have one covered with the cheap wire cloth we advertise, if you choose, but it is much more expensive, and much heavier to carry around than that made of mosquito bar. The dimensions we prefer are 5 feet long, 5 feet wide, and 5 feet high. See illustrations in A B C book.

WAX EXTRACTOR.



Price £2.50. This machine is very simple, for we have only to throw our refuse comb into the basket, B, and set it inside the kettle A. Now put on the cover, and place it over a pan or can of boiling water: the steam will ascend all around B, and the melted wax will run down and flow out of the tube O. Under the end of this tube, is kept a pan to catch the wax. As fast as the comb sink down, more can be put in, and so on. The machine requires no attention, except to fill the basket B. If you have no kettle that is 12 inches across the top inside, we can furnish a copper bottomed steam generator for \$1.

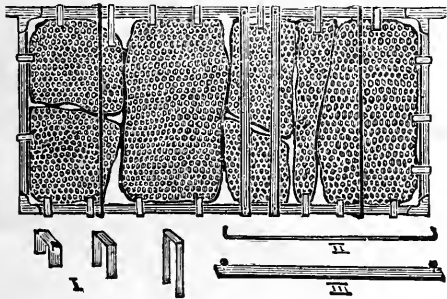
OUR 30¢ WAX EXTRACTOR.

This is simply an 8 qt. dish pan, with a 15c. all-metal sieve set in it. To use it, pour water in the pan, put your comb in the sieve, and set the whole in the oven. As fast as the wax melts and falls in the water, put more in the sieve.

D. A. JONES'S NEW WAX-EXTRACTOR.

This machine, illustrated and described on page 120, GLEANINGS for 1883, is probably ahead of all others. Price complete, boiler and all, \$4.50.

TRANSFERRING IMPLEMENTS.



Transferring clamps, per 100 (by mail, 10c. extra) 15
 " wires, " 100 " " " 25
 Foundation "Hakes," " " " 30 " 1 50

TIN FOR SEPARATORS AND EXTRACTORS.

As we buy in large quantities, I can perhaps give you better rates than you are getting at home. Price per box of 112 sheets, size 14x20, for

Separators and small cans for honey..... \$6 00
 " sheet, for less than a box..... 7
 IX tin for making Extractors, 14x20, per box 9 00
 " per sheet..... 10
 12x24 tin for roofs to chaff hives, per box..... 7 00
 " per sheet..... 8

Solder, best, per lb..... 18
 Tin by the box, we will ship from Philadelphia. If double above width of sheets is wanted, price will be 2½ times above prices. Charcoal, per barrel, 60c.

TIN POINTS FOR HONEY BOXES.

Per 1000, 25c; 10,000, \$2.; by mail, 6c per 1000 extra.

TINNERS'S SHEARS AND SNIPS.

Tinners'S Snips and Wire-Cutter combined, 11 in., nicely finished..... \$1 50
 If wanted by mail, send 20 c. extra for postage.
 A much heavier snip, \$2.50; by mail, 40c extra.

TINNER'S SQUARING SHEARS.

Operated by foot; price \$40.00. For cut and description, see February GLEANINGS, 1882.

VEILS TO PROTECT THE FACE.

Best, made of grenadine, with the face of silk Brussels net, the best material to see through, 75 c. The same, all of Grenadine, 50 c. A cheaper veil, all of mosquito bar, 25 c.; the same with the Brussels-net face, 50 c. Either are mailed free of postage. Prices, for ten, \$5.00, \$4.00, and \$2.00 respectively.

MATERIALS FOR VEILS.

Brussels net, for face of veil (34 in. wide) per yd... 75
 Grenadine, per yard (24 inches wide)..... 25
 Mosquito bar (66 inches wide), per piece, 8 yards 50
 For any of the above by mail, add 30 per yd.

"WORK BOX" FOR THE APIARIST.

Price, complete, \$1.00; unpainted, 25c less. Those of you who raise queens know how troublesome it is to stoop over hives all day, and how it rests one, to sit down occasionally. When seated, you have at each side, boxes to hold your tools, which may, or may not, have covers, as you choose. A drawer may also be put in the back side. When putting up queens, your tinned tacks are in the proper box, and your hammer is right in its place. The seat is a nice, solid place on which to lay the cage, while driving in the tacks, and the holes in it, permit it to be easily carried with one hand.

Postage. WIRE CLOTH.

5 | Wirecloth, for Extractors, per square foot... 8
 In lots of 10 square feet or more, 7 cts; 100, 6 cts.
 Above is tinned, and meshes are 5 to the inch.
 3 | Wire cloth for queen cages, per square foot 3½
 This is made of dark-blue wire, 12 meshes to inch, and is the best thing for shipping bees, and for queen cages; also for doors and window-screens. We have 3 widths — 24, 30, and 36 inches.
 02 | Fine tinned wire No. 30, to prevent fdn. from sagging, price per oz..... 03
 18 | The same, per lb..... 25
 If wanted by mail, add 2 c. per oz., or 18 c. per lb., for packing and postage.

WRAPPING PAPER.

We use two kinds in our work; the light, such as comes around your price lists and Journals, at 10c per lb., and the "flour sack" paper such as we wrap goods in, at 15c per lb. Cut to any size you wish, at these prices. GLEANINGS paper, nice for writing or printing, in sheets 21x27, 12c per lb. (there are about 20 sheets to a pound). Cut to any size, 15 cts. per lb.

PATENTS ON BEE-HIVES.

While I earnestly try to maintain abroad "charity for all and malice toward none," and while I do not wish to take upon myself the responsibility of dictating a course for others, I feel it a duty to discourage with all my might, both by precept and example, every thing in the shape of patented bee-hives, or patents on any thing pertaining to bee culture. On the other hand, I shall try to encourage every one to do all he can to advance the common good of all. I do not believe the world "selfish and grasping," but have much confidence in the disposition of our people to desire to pay for every thing they get, and to reward those who work for them disinterestedly, when they once get a clear understanding of the matter. If you have made a valuable invention or discovery, give it to the people, rejoicing that you have been enabled to contribute your mite to the common good, and in seeing others happy; and sooner or later you will have your reward. Nothing that we manufacture, in the shape of hives or implements, is patented.

OUR "COUNTER STORE."

You little know, my friends, what pleasure I have taken in collecting these goods for you, more especially those on the 5c counter, and I have looked forward many a time to handing them over to you, and to the pleasure I should take in hearing your exclamations of surprise, at so good an article for such an insignificant sum of money.

TERMS OF PAYMENT—Strictly Cash With Order.

All Prices Subject to Change without Notice

Our friends will bear in mind the price of single articles are given at the head of each list, and that the figures refer only to lots of 10 and 100.

Postage on each	Articles with no postage marked are unmailable. For postage to Canada see page 3.	Price of	Price of
		10	100

USEFUL ARTICLES THREE CTS. EACH.

2	BOWL, YELLOW ware, 1 pt.; useful.....	27	2 50
2	BRUSH, PAINT, PASTE, or SASH No. 1....	25	2 25
2	CHALK LINE, cotton, good.....	25	2 25
2	GROUT PLASTER, three sheets, best articulated silk.....	28	2 50
5	DRAWER PULLS, per pair.....	25	2 25
2	DRAWER-KNOBS, small, white porcelain.....	20	1 50
3	ENVELOPES, bunch of 25, excellent paper, assorted colors.....	28	2 50
	All white, small size, same as above prices.		
2	FISH-LINE, cotton, good.....	24	2 25
2	FILE, 3-CORNERED, 4 inches long, good.....	28	2 75
	I believe this is the first file ever offered for so low a sum.		
3	GLASS-CUTTER.....	28	2 50
2	HANDKERCHIEF, for children, pictured.....	28	2 50
2	TOOTH-PICK, IVORY, 3-bladed.....	28	2 50
2	INK, good black ink, per bottle.....	25	2 25
3	JUTE TWINE.....	28	2 50
	A great big ball of it, and good fair twine, too.		
2	KEY RING, superior quality, with balls.....	25	2 00
2	MAPLE SUGAR CAKES, first run, extra nice.....	25	2 25
2	MARLING SAUCE, for carpenter's use.....	20	1 50
2	MEMORANDUM BOOK, 64 pages, (2 for 5c).....	25	2 00
5	NESTED SPOON, best boxwood.....	27	2 50
5	NEST EGG, chinaware.....	28	2 50
3	PAPER OF PINS, 3 sizes, a little smaller than 5c ones.....	28	2 70
2	POTATO-PARER, a knife that will shut up PIE-PLATE, WHITE ware, 7 in.....	28	2 50
2	RULES for School Children. Nicely made, one foot long.....	28	2 50
2	SACQUIN NEEDLE.....	28	2 50
	This is a new and useful thing, with bent flat point. Very convenient for sewing heavy fabrics, and many other purposes.		
3	SCREW CAPS, 1/2 inch, zinc, to solder on honey cans.....	28	2 50
3	SEA-SHELLS, about 2-inch.....	28	2 50
2	SLATE, hard-wood frame, 8 1/2 x 6 1/2.....	28	2 50
	A wonderfully pretty and good little slate for a child, for such an insignificant sum of money.		
2	SPECTACLE-CASE, strong and excellent.....	28	2 50
2	STEEL CHAIN, Watch, neatly polished.....	25	2 00
4	STOVE-LIGHT LIFTER.....	25	2 25
2	TEN NIGHTS IN A BAR-ROOM, by T.S. Arthur.....	28	2 75
2	WARDROBE HOOK, same as in 5c counter, but without cone.....	25	2 25
	GLASSWARE.		
	BERRY DISH, glass.....	28	2 75
	BUTTER-DISH, individual; glass.....	25	2 25
3	EGG CUP, glass, a little beauty.....	28	2 50
3	MUG, GLASS, for children.....	28	2 75
3	MARBLE, glass, 1 1/4 in., very handsome.....	28	2 50
3	SALT-CELLAR, individual.....	25	2 25
10	TUMBLER for 1-2 LB honey, tin top.....	29	2 85
	TINWARE.		
3	A B C PLATE, tin; 6 in.....	20	1 75
3	BISQUIT-CUTTER, small.....	25	2 00
3	CAKE-CUTTER, fancy, 6 different pat'ns.....	28	2 50
5	CUP, 1-2 PINT.....	25	2 25
4	MILK-SKIMMER, either PIERCED or PLAIN.....	25	2 25
6	PAN, CORN CAKE, circular, 3x2 in.....	25	2 25
6	PAN, MILK, toy, 1-2 PINT, 2 for 5c. Excellent for nail boxes.....	25	2 00
2	PEPPER-BOX, Japanned.....	25	2 25
2	PIE-CRIMPER, for cutting pie crusts.....	25	2 00

Postage.]		Pr. of 10, of 100
5	PIE-PLATE, 8 INCH, scalloped, tin.....	25 2 25
3	PIE-PLATE, 6 INCH.....	25 2 25
	Just the thing for making "lunch" pies.	
3	RATTLE BOX, tin.....	25 2 25
2	SPOON, TEA, tinned iron.....	20 1 75
2	SPOON, TABLE, tinned, and well made.....	25 2 25
4	TOY BANK, Japanned House.....	28 2 75

Five-Cent Counter.

2	AWL, SCRATCH, Wood Handle.....	45	4 00
3	AWLS, BRAD, Assorted Sizes.....	45	4 00
2	ALBUM, Autograph.....	38	3 50
	Paper covers, illuminated, nice for school children.		
8	BABY WAGON, 5x7 in., our own make.....	45	4 00
	Iron axles and string included (1)		
4	BALLS, O. K for schoolboys.....	47	4 50
8	BASKETS, 1/2 bushel.....	40	3 75
	" 1/4 ".....	45	4 25
	" 1/2 ".....	50	4 75

Just think of it! A half bushel market basket for five cents.

4	BASKETS, 1 QT., fancy WILLOW.....	40	3 75
	Always pleasant for the little ones.		
6	BASTING COTTON, 12 spools for only 5 c.....	48	4 50
2	BASTING HOOPS: very handy.....	35	3 25
2	BLANKET PINS, per paper of 1 doz.....	40	3 50

Also good for shawl-pins. They are like a common brass pin, but 2 1/2 inches long, and large in proportion.

1	BLUING, Oldroyd's Liquid, price of box containing 3 dozen bottles, \$1 50.		
3	BOOK or SHAWL STRAP, very handy.....	35	3 25
14	BOOT-JACK, iron, Japanned.....	48	4 50
1	BOWL, WHITE ware, pint, nice.....	45	4 00
1	BOWL, BROWN, tint glass enameled, Splendid for bread and milk.....	40	3 50

10	BRACKET for FLOWER POT, very pretty.....	40	3 75
10	BRACKETS to hold CLOCK-SHELF or other shelves per pair 3x4 in.....	45	4 25

A neat shelf to go with above, same price. By mail, 3c.

5	BROILER for steak or for toasting bread.....	40	3 50
4	BROOM, Whisk.....	45	4 25

Nice to brush the sweat off your clothes; a very good brush broom in fact, for 5c.



2	BRUSH, Paint, Paste, or Sash.....	35	3 00
2	BRUSH, Marking, for marking boxes.....	40	3 50
2	BUTTON-HOOK, nickel, folding.....	47	4 50

Are used for putting film in wired frames also.

7	BUTTON-PRINT; wood; very pretty.....	45	4 00
5	CAKE-TURNER, all metal, very good.....	45	4 25
5	CAN OPENER, cuts out a round piece.....	43	4 00
5	CANDY, a whole bag full of all kinds.....	45	4 25
2	CARPENTER'S PENCIL, Rule on the Side.....	40	3 75

3	CARPENTER'S COMPASSSES, not equal to steel ones, but, like the 5c. scissors, a wonder for the money.....	40	3 50
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8	CARPENTER'S HAND-SCREWS.....	35	3 25
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2	CARPET TACKS, blued, round heads.....	45	4 00
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2	CASTOR OIL, 2 oz.....	43	4 00
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8	CATTLE-CARD, for Cattle, or Horses'.....	43	4 00
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2	CHARM KNIVES, a beauty.....	45	4 50
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In ivory and shell handles, to hang on the watch chain.

2	CHEMOS, 5/6x7.....	45	4 00
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These are beautiful pictures of birds, flowers, dogs, autumn leaves, crosses, etc., 30 different pictures.

3	CHILD'S CLOTHES-BRUSH, just as "cute" as you can be.....	45	4 00
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2	CLOCK CORD, fine line, 30 hour.....	33	3 00
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10	CLOTHES-LINE; 30 ft. long.....	40	3 75
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12	COAL SHOVEL, Wrought Iron.....	48	4 75
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2	COMB, Dressing, good, clear horn.....	45	4 00
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2	COMB, fine, Rubber.....	35	4 00
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6	COMB, pocket, folding, horn.....	43	4 00
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6	COMB CASE, tin, Japanned.....	45	4 00
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14	CONCENTRATED LYE in iron cans.....	45	4 25
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3	COFFEE WIRE, on spools.....	45	3 50
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Suitable for mending things when they get broken. Two sizes, No. 20 and 25. No. 20, price per lb., 45c. No. 25, 50c per lb.

A pound of No. 20 is about 250 feet.

3	CORN SCREW, strong and well made.....	45	4 00
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7	CORN for planting, Mammoth Sweet.....	35	3 00
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We have carefully tested this, for several seasons, and it is so fine for table use that we sell green corn to the farmers around us. We can also furnish for early corn at above prices, Early Sweet Concord, and Early Minnesota. Put up in one-half pint packages. Choice Pumpkin seeds, same price.

6	CURRY COMB, good ones.....	45	4 00
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6	DRAWER PULLS, Bronzed, per pair.....	45	4 25
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4	DOLLS, china-limbed.....	45	4 00
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2	DYES, all colors, with directions for use.....	45	4 00
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2	EASEL, SILVERED WIRE, to Hold Photo's.....	48	4 75
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3	ERASER, rubber, good.....	38	3 50
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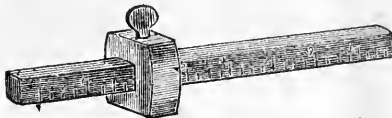
Postage.		Pr. of 10, of 100
	ESSENCE, LEMON, 2 oz.; good	47 4 50
	ESSENCE PEPPERMINT	47 4 50
5	ENVELOPES Bunch of 25, such as we use	45 4 00
	EXTRACT VANILLA, 2-oz. bottles, good	50 5 00
2	FERULES for tool handles, dozen packages, brass, handsomely finished, 3 sizes, $\frac{1}{8}$, $\frac{3}{16}$ and 11-16	35 3 25
2	FILE HANDLE, self-adjusting (see 10c list)	45 4 25
	FILE, 3-CORNERED	47 4 50
	Right for hand-saws; good.	
13	FOOT SCRAPER, to screw on door-step...	45 4 25
	Spreads (for your wife's "squeak") during muddy weather.	
7	FRINGING PAN, wrought iron, small	48 4 75
	Good to carry along when you "go fishing," or to melt bab-bit metal in, etc.	
8	GARDEN TROWEL, good, but not steel...	45 4 25
7	GARDEN WEEDEE, a neat and useful tool	38 3 50
2	GARDEN SEEDS, choicest and best varieties, carefully tested seed as follows:	45 4 00
	Beans, Beets, Cabbage, Carrot, Cauliflower, Celery, Corn, Cress, Cucumber, Lettuce, Melons, Onion, Parsnip, Peas, Pumpkin, Radish, Salsify, Spinaech, Squash, Tomato, and Turnip.	
2	GIMLET, steel, assorted sizes	40 3 50
2	GOSPEL HYMNS, Parts I., II., III., or IV., as you choose, paper covers	48 4 50
4	GRATER, Nutmeg	33 3 00
5	GRATER, good for Horseradish, etc.	40 3 50

GLASSWARE.

	BERRY DISH, Individual, very pretty...	45 4 25
	BIRD BATH, opal, very pretty	48 4 50
	CAKE PLATE, $\frac{7}{8}$ inch in diameter	48 4 50
	EGG CUP, individual, little beauties	48 4 50
	GOBLET, Cups with Handles, &c., both large and small, 7 very pretty designs, beautiful for only 5c each	45 4 25
	LAMP CHIMNEY, good glass	48 4 50
	GLASS HONEY-PAIL, $\frac{1}{2}$ pint	45 4 00
5	MARBLE, Glass 1 $\frac{1}{2}$ in., very handsome	45 4 00
	PICKLE DISH or boat, $\frac{1}{2}$ in. long	48 4 50
	SALTS ON FOOT	48 4 50
6	SALT or PEPPER BOTTLE, glass, white metal top	45 4 00
7	SALT Cellar, FROG pattern	45 4 00
	TUMBLER, FULL SIZE, plain, good	49 3 50
	TUMBLER, 1 pt., strong and well finished	45 4 00
	DISH, Oval, 7 in., beautiful pattern	49 4 80
	TOY GOBLET, several different designs, just as pretty as can be	45 4 00
5	SALT-CELLARS, tub pattern, glass	45 4 00

4	HAND-MIRRORS, a wonder for 5 cents...	47 4 50
2	HANDKERCHIEF, for CHILDREN, all-linen; good size; fine, and neatly hemmed	45 4 25
2	HANDKERCHIEF, CAMBRIC	45 4 25
	Nice and good, softer than the linen; fair size.	
7	HAMMER TACK, IRON HANDLE, Coppered	40 3 50
8	HAMMER TACK, WOOD HANDLE	35 3 00
16	HAMMER, CARPENTER'S, full size	45 4 25
2	HAT RACK, FOLDING, all Black Walnut, Well Made for the Money	45 4 25
	INK, "W. O. s." Large 2 oz. Bottles; Price of Box containing 3 dozen Bottles, Assorted Colors, Black, Blue, Violet, with 1 Bottle each of Green and Red, \$1.	
2	JEW'S HARP, large and loud	45 4 00
3	KITCHEN KNIFE, Fine Steel, metal Handle, labeled "Kitchen Friend"	40 3 50
3	KNIFE AND FORK for Table Use (a Knife and a Fork Are Two)	48 4 75
	Good Steel, but rather Plainly handled.	
2	KNIFE for BOYS, wonderfully well made for 5c	45 4 25
	Use one of these, and the steel and temper are excellent.	
2	KNIFE AND FORK, small size	45 4 25
	For children, very neatly finished, knife and fork are two.	
3	LADLE, CREAM, for table use, nice	45 4 00
3	LAMP SHADE, Good and Pretty	45 4 25
2	LAMP WICK best, doz. packages	40 3 75
	Three sizes, $\frac{3}{16}$, $\frac{1}{4}$, and $\frac{5}{16}$ inches wide.	
2	LAUNDRY WAX	40 3 50
	It gives an elegant, smooth finish to linen, prevents iron from sticking and rusting, saves labor, and preserves the linen. It is also a good substitute for beeswax for waxing thread, and costs far less. Directions for using:—Wrap a cake of it in a cloth and pass the iron over it frequently. The iron will then run smoothly and give a beautiful finish at a great saving of labor.	
7	LETTEE FILE and Paper weight	45 4 25
6	MALLET, WOOD. Just the nicest thing to Drive Sections Together	45 4 25
2	MAT CHROMO, size 5x11 inches	40 3 75
	As a general thing, I am not much in favor of chromos; but when I saw these beautiful pictures, on a dark background, for only 5 cents, I decided they were worth to humanity. A very pretty frame (jet and white) will be included with the above for as much more. Postage on frame, 7c.	

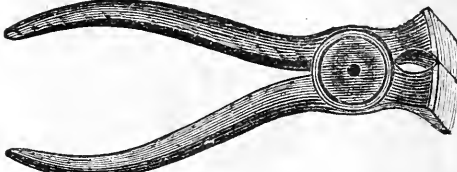
Postage.		Pr. of 10, of 100
2	MAGNET, Horse Shoe, 1 $\frac{1}{2}$ in.	45 4 50
	MATCHES, Best Parlor, no Brimstone, no Scent	40 3 50
4	MATCH SAFE, double, for both burnt, and unburnt matches	38 3 50
8	MATCH SAFE, Bronze, Bracket work ..	40 3 75



5	MARKING GAUGE. A very pretty tool for the money	35 3 25
6	METALLOPHONE, or toy piano; a piano for only 5 cents (?)	40 3 75
2	MEASURING TAPE, 36 in. spring, tin case	45 4 00
2	MEMORANDUM BOOK, 56 pages	40 3 50
	Excellent for the pocket for the apiary, or other purposes.	



8	MINCER, or Chopping Knives, steel	45 4 25
4	"MINCE PIE,"	47 4 50
	This is a fine quality of Mince meat, containing all the spices, raisins, etc., evaporated so as to keep safely. One package (with printed directions) will make a LARGE NICE MINCE PIE.	
4	MIRROR, WOOD or PAPER FRAME	40 3 75
	Nice to bring down a swarm of bees.	
5	MOUSE TRAP, to keep in Honey House	35 3 00
	MUGILLAGE and Brush, good-sized bottles	45 4 50
	I do not know how it is possible for them to be made so low.	
10	MUG, BROWN, Rockingham ware	40 3 50
3	NAPKIN; nice, but rather small	45 4 25
3	NAPKIN-RING, wood, very pretty	48 4 50
2	NAIL SET, best cast steel, tempered ..	33 3 00
4	NEST EGG, White Glass	35 3 00
2	NEW TESTAMENT, in pretty flexible cloth covers, beautiful print	48 4 75



5	NIPPER, the Best 5c tool in the whole lot, without question (not to cut with)	45 4 25
	OIL for SEWING MACHINES	45 4 00
	Also good for other light machinery, in handsome 2 oz. bottles.	
3	QILER, ZINC, Neat, Pretty	45 4 00
	Just right to keep all the "machinery" well oiled.	
4	PADLOCK	48 4 75
	Strong and wonderfully well made, for 5 cents.	
4	PAPERERIE, 12 white envelopes and 12 sheets of paper in a pretty box	48 4 75
11	PAPER WEIGHT, BRONZE	45 4 00
3	PAPER OF PINS, 3 different sizes	35 3 25
	Not first quality, for they are made of iron, as your master will tell you very quickly; but they are useful for some purposes. For best brass pins, see 1-cent counter.	
2	PEN and pencil, COMBINATION	40 3 75
2	PENCIL, Lead (American Phonograph) ..	45 4 00
2	PENCIL, Red one end and BLUE the other ..	40 3 50
	The best pencil of Eagle Lead Pencil Co., excellent for marking slates to hives. Will stand rain and snow without dulling.	
2	PEN HOLDER, NICKEL plated, with pen ..	40 3 75
6	PEN-RACK and paper weight combined, pretty and useful	42 4 00
2	PENS Steel, 1 Doz. Giltott's 404	40 3 75
4	PICKLE HOOL, very neat and handy	45 4 00
5	PIE LIFTER, very handy	40 3 50
2	PILGRIM'S PROGRESS, Bunyan's, from this world to that which is to come ..	47 4 50
25	PLATE, WHITE, dinner, 8-inch	47 4 50
6	PLATE Pie, YELLOW ware, good	40 3 75
6	PLIERS, flat nose	45 4 00
	Made of chilled iron, like the 5c seissors, but excellent for the money.	
4	POLER, to stir the fire, Wood Handle ..	45 4 00
9	POTATO MASHER, either wood, or wire ..	40 3 75
30	PUDDING DISH, yellow ware, 6 in.	40 3 75
2	PURSE; two kinds, buck and leather ..	43 4 00
14	ROLLING PIN, hard wood, well made ..	45 4 00

Postage.]	[Pr. of 10, of 100
5 QUILT FRAME CLAMP, useful for a number of purposes.....	43 4 00
3 RUBBER BALL; run for the juveniles...	40 3 75



2 | SCISSORS, Japanned Handles, and Polished Blades..... 45 | 4 25
 Either round point for the pocket, and for little girls, or sharp-pointed. Wonderfully well finished for such an insignificant price. Nothing equal to the round points for making a little girl happy, but you must look out for the pieces.

2 SCREW-DRIVER, sewing Machine, Neat, Wood Handle, fine steel.....	35 3 25
3 SCREW-DRIVER, METAL HANDLE.....	45 4 00
2 SEWING SILE, on spoons, any letter.....	40 3 75
5 SHEARS, a real wonder for oc.....	45 4 25
6 SHOE ELACTING, good and large boxes.....	45 4 00
4 SINK CLEANER.....	45 4 00

This is a pretty little shovel with a rubber edge, and nice for many purposes.

19 SLATE, 8x12, hardwood frames, good.....	45 4 00
4 SLATE PENCIL, best soapstone, 5 in a neat tin box.....	40 3 50
12 SOAP, "BOSS" Fancy Cakes, Perfumed Toilet, but good sized cakes.....	40 4 00
5 SOAP, CASTILE genuine.....	40 3 75
4 SOAP, called "KITCHEN MINERAL".....	38 3 50

Contains pumice stone. An excellent thing for removing propolis, varnish, or stains of any kind from the hands.

12 SOAP, GREENBACK, GERMAN, large 1-lb. cakes, and good; in boxes of 60 cakes each, \$2.60 per box.....	45 4 00
13 SOAP-CUP, to go on edge of tub or Bucket, very handy.....	45 4 00
2 SOLDERING PLATE for mending tinware.....	45 4 00
6 SPOON, BASTING, long handled, all metal, very handy in the kitchen.....	48 4 75
2 SPOON, TEA, BRITANNIA (See Table Sp's)	40 3 50
4 SPOON, TABLE, BRITANNIA, almost as nice as silver, but bend pretty easily.....	50 4 75
2 SPONGE, good size and good sponges.....	40 3 50
3 STAND, SILVERED WIRE, for Hot Dishes.....	45 4 00
9 STAND, FOR HOT DISHES, bronzed, nice.....	40 3 75
6 STOVE POLISH, Dixon's Best.....	40 3 75
10 STOVE COVER LIFTER, "always cool".....	42 3 90
5 STOVE COVER LIFTER, WOOD HANDLE.....	38 3 00
4 STRAINER, to set over BOWL.....	40 3 75
2 STRAINER to attach to TEA POT spout.....	43 4 00
2 SUNDAY-SCHOOL BOOK.....	45 4 25

Exactly the same reaching matter has cost from \$1.25 to \$1.50 very easily gotten up and matter EXCELLENT and wholesome. We have now in stock, "Silver Keys," "Silver Oil," "Rescued from Egypt," "Pugin's Progress," and "Giant-Killer or the Roby Family."

1 SWEET OIL, 2 oz. bottles.....	40 3 75
4 TABLET, Suitable for writing and counter-slips; an excellent writing paper.....	40 3 50
2 TACKS, Tinned, 3 Sizes of Papers.....	35 3 00

One-fourth men in 1 oz. papers; $\frac{3}{8}$, $\frac{1}{2}$ oz., and $\frac{1}{4}$ in. in 2 oz. papers, at a paper.	
2 TAFE MEASURE, TAILORS' leather.....	40 3 75
5 TEA BELL, very neat and pretty, nice for the baby and useful besides.....	45 4 50
3 TEETHING RING, pure rubber.....	40 3 75
2 THIMBLE, best German silver.....	47 4 50

These are equal to the Nail & Eton spoons, and nearly as bright as silver.

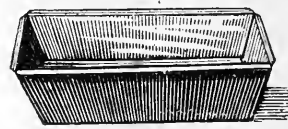
TINWARE.

4 BAKB.....	35 3 25
5 BASIN, 1 qt., retinned.....	45 4 00
3 BISCUIT-CUTTER*.....	33 3 00
5 CANTEEN or COFFEE GLASS, $\frac{1}{2}$ pt.....	45 4 00
Handy for dinner basket, or for sending sample of honey.	
3 CUP, 1 QT., exact (for only five cents).....	48 4 50
5 CUP, 1 PINT, Tin.....	33 3 00
3 CUP DIPPER, returned.....	48 4 50
4 DINNER BOWL, Loud if not Sweet.....	45 4 25

Just the thing to let the "men folks" know when the bees are swarming.

*Three for a dime.

Postage.]	[Pr. of 10, of 100
7 DISH PAN, TOT, $\frac{3}{4}$ x6 in.....	43 4 00
Cute for children and "handy to have in the house."	
6 DIPPER, 1 PINT, Tin.....	45 4 00
A real serviceable dipper, and just the thing for getting a cool drink out of the spring, or "old oaken bucket."	
9 DUST PAN, half size, well made.....	45 4 25
Tip-top for keeping the floor of your shop clean, and just the nicest present for your little girls.	
6 FLOUR DREDGE, Japanned, very nice.....	43 4 00
8 FRUIT CAN, 1 QT., Tin.....	48 4 75
5 FRUIT-CAN FILLER.....	48 4 50
This is a large sized funnel, with a very convenient handle. A very convenient utensil for the purpose.	
4 FUNNEL, PT., well made.....	45 4 25
6 GEM PAN, 3 in. in a frame.....	48 4 50
5 KITCHEN SET, Tin, toy 13 pieces in box.....	42 3 90
This box may please your little girl more than something that would cost \$5 00.	
4 MATCH BOX, Tin Japanned.....	40 3 75
5 MUG, PICNIC, polished tin.....	45 4 00
6 PAL, Tin, PT., well made.....	48 4 50
Cover and all, and just right for $1\frac{1}{2}$ lbs. honey.	



8 PAN, BREAD, 2 QT., deep, oblong square.....	45 4 00
This is the "Bread Pan" bee-feeder, see page 13.	
8 PAN, SCALLOP, Tin, Cake, very pretty 3 sizes.....	45 4 20
8 PAN, MILK, tin, called 2 qt., really 3 pts.....	45 4 50
9 PAN, 8x12, oblong Square, shallow.....	45 4 00
7 PAN, JELLY CAKE, two sizes, 9 and 10 in.....	45 4 00
7 PAN or basin, EXTRA DEEP, $\frac{1}{2}$ pints, a very useful size*.....	28 2 50
4 PAN, SAUCE, Tinned, 1 Pint, with Lip.....	45 4 25

Just as pretty, and just as handy for a variety of purposes as can be.

7 PANS, PATTY, 6 in a frame.....	48 4 50
A most convenient utensil, and a wonder for only 5 cents.	
9 PIE-PLATE, Tin; just right for pump-cakes, two sizes, 9 and 10 inch*.....	33 3 00
4 PINT-MEASURE, tin, with lip; nice.....	48 4 50
7 POT COVER, Tin, with ring, $\frac{9}{16}$ and 1 1/2 in.....	45 4 50
Sauce pan covers, four sizes, 5, 6, 7, and 8 inch, same price.	
3 SCOOP, Tin, for Getting Honey out of a Barrel, and other purposes.....	45 4 00
6 SKIMMER, tinned, long-handled.....	48 4 50
6 SPICE BOX, Gilt, Labeled Allspice, Nutmeg, Cinnamon, Ginger, &c.....	40 3 75

With close-fitting cover, very neat and pretty. These are exactly the size of the pint honey-pails; but they have no bail, and are not soldered.

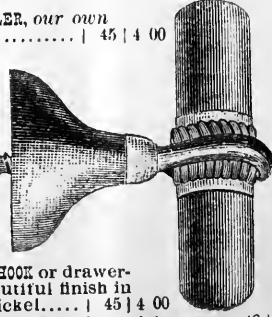
3 SPICE-SCOOPS.....	45 4 00
5 TEA CANISTER, very pretty for 5 cts.....	45 4 25
10 WASH BASIN, Tin, 8 inch.....	45 4 25
If a bee-keeper don't need one, I don't know who does; and these are so neat, pretty, and convenient—only just 6 cts. Just think of it!	
2 TOOTH BRUSH, Neat, and Excellent, but rather small.....	45 4 25
8 TOOTHPICKS, wood; sharp at both ends; a box of 2500 for only 5c.....	48 4 50
2 TOOTHPICKS, quill, a bunch of 18 for 5c.....	40 3 50
6 TOPY SLED, Wagon, or Cradle.....	45 4 25

Our own manufacture, strong and neatly finished, printed in bright colors, with nursery rhymes, etc., for our children.

4 TRELLIS for flowers, painted green.....	48 4 50
2 TWEEZERS and Ear-spoon.....	40 3 50
5 TWINE, JUTE, Balls, $\frac{1}{4}$ lb.....	48 4 50
3 TOWEL, tastily fringed and striped.....	47 4 50

Just the thing, with a 6c wash basin, to "set off" the honey home.

10 TOWEL ROLLER, our own make.....	45 4 00
3 WARDROBE HOOK or drawer-pull; beautiful finish in jet and nickel.....	45 4 00
VASE, silvered glass, $\frac{3}{4}$ in. high.....	48 4 50



AND AN ORNAMENT TO ANY HOME.

ONE OF THE HANDIEST THINGS YOU CAN IMAGINE!

*Three for a dime.

Postage.]	[Pr. of 10, of 100
2 VIEWS for Stereoscopes, from all Countries of the World*.....	33 3 00
2 WALLET; 4 pockets; nickel-trimmed, but small.....	40 3 75
3 WALL-FENDER, rubber capped.....	30 3 75
To screw in the wall to keep the door from striking.	
2 WARDROBE HOOK, a new design.....	38 3 50
Neat and strong, and can be put up by any woman, even in a plaster wall. Where a nail has been broken out of the plaster, these cover all and make a neat job.	
6 WASH BOARD, toy.....	43 4 00
Fair match for the dish pans, and useful - to delight some child's heart.	
4 WAX CASE, for Work Box.....	48 4 75
8 WHEAT-STONE, (Hindoo Oil Stones).....	45 4 25
2 WIRE NAILS, per Paper, 8 sizes.....	45 4 00
1 YARD STICK, Graduated and numbered.....	42 4 00

Postage.]	[Pr. of 10, of 100
1 DRESSING for the SHOES, 4-oz. bottles..	85 8 00
An excellent thing to make your shoes look "new" when you want them to look presentable for Sunday-school, and have but little time.	
10 EGG-BEATER, single-g geared; a wonder for the money.....	85 8 00
2 EYE PROTECTOR.....	90 8 50
Excellent to keep sawdust and turning chips out of your eyes.	
7 FEATHER DUSTER.....	85 8 00
2 FISH LINE, Sea Grass.....	95 9 00

OUR TEN-CENT COUNTER.

6 BAKING POWDER, friend Muth's, and a splendid article.....	80 7 50
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5 BALANCE, 24 LB., Spring, Accurate.....	90 8 75
2 BALANCE, LETTER, pocket balance.....	75 7 00
Weighs from 1-2 oz., to 1 lb. Nickel plated, and accurate, and very pretty.	
5 BASKET, 2-quart.....	70 6 00
Fancy willow; very handsome. Three for 25 cents.	
3 BELT PUNCH, hollow, fine steel.....	95 9 00
BOWL, brown, 8 - inch, Rockingham ware.....	
16 BRACEETS for holding clocks or other shelves, per pair, 4x6 in.....	90 8 50
A neat shelf to go with them, same price. By mail, 35.	
6 BREAD-KNIFE, very pretty; finely finished, and a good steel knife 11 in. long.....	85 8 00
5 BROOM HOLDER, for brooms, mops, or any similar article.....	90 8 50
8 BROOM HEADS.....	90 8 50
6 BROOM WHISK, Wood Handles, good.....	85 8 00
5 BRUSH, CLOTHS, an astonishingly good Brush for a dime.....	85 8 00
7 BRUSH, COUNTER; good for the money..	85 7 75
6 BRUSH, SHOES.....	85 8 00
3 BRUSH, PAINT, Will do to paint hives, but are rather small.....	90 8 50
10 BRUSH, HAIR, excellent.....	90 8 50
4 BRUSH, HAIR.....	90 8 75
7 BRUSH, SCRUB, also handy for blacking stoves.....	80 7 75
9 BRUSH, SCRUB, good.....	90 8 50
5 BUGGY WHIP, good for the money.....	98 9 50
3 BUTTER KNIFE, real plate, pretty pat'n	90 7 50
5 BUTTER KNIFE, steel and good temper	90 8 75
6 CAKE SPOON, heavy, with smooth, wood handle, just the thing for sponge cake	85 8 00
10 CARPENTER'S SAWS; nice for the boys, and handy for little work.....	85 7 50
7 CARPET-STRETCHER, no handle.....	85 8 00
3 CARBON SKIN, for Cleaning Cutl'y, &c	85 8 00
5 CHISEL, with Handles, 1/2 inch.....	80 7 75
14 CLOTHES LINE, 65 ft. long, and have been tested with 300 lbs. weight.....	90 8 50
17 CLOTHES RACK, Walnut Frame, 4 Hooks	90 8 50
2 CLOTH-CORD, 8-day; best linen.....	65 6 00
16 COAL SHOVEL, wrought iron.....	85 8 00
With tin-covered handle to prevent their getting hot.	
20 COAL TONGS, good and serviceable.....	85 8 00
A real wonder for the money.	
1 CORN POPPER, nice, good size.....	90 8 50
Probably the best swarm-catcher that can be made, if you clip your queen's wing and then catch and put them in it.	



5 COLD CHISEL, best tempered steel.....	85 8 00
2 COMPASS, MAGNETIC.....	95 9 00
With ring to hang on watch chain.	
3 COMB, dressing, rubber; a good one.....	85 8 00
8 COLLS, china-limbed, 9/32 in long.....	85 8 00
8 COLLS, wax, dressed, 5/8 in. long.....	95 9 00
6 DISH CLOTH, of iron rings.....	75 7 00
For pots and kettles. Three for 25 cents.	
4 DISH COVER, blued wire, 6 in.*.....	75 7 00
5 DOOR SPRING for screen doors.....	90 8 00
This makes also a splendid smoker spring, to be put upon any kind of a bee-smoker. Printed directions for putting on. The coiled spring alone, such as we use on our smokers, one-half above prices.	



2 FILE, DOUBLE-ENDER, 7 inch.....	90 8 75
This is price of file only; price of handle is given in 5c counter. It is the best file made for cross cut and band saws.	
2 FRUIT KNIFE, White Metal Handle.....	98 9 50
Steel blade, all nickel plated, would have been considered a few years ago very reasonable at 25c.	
5 GENTS' COLLARS, Box of 10, any size....	75 7 00
3 GENTS' SOCS, excellent for the money.....	90 8 50



8 GARDEN TROWEL, Steel, well made and finished. Also used as honey-knife..	85 7 00
2 GIMLETS, extra; cut easily, and bore a hole as smooth and round as a bit....	75 6 00
4 GLASS-CUTTER, with Knife Sharpener, Corkscrew and Can Opener.....	95 9 00
GLUE, LIQUID, Peter Cooper's, a splendid article.....	
4 GOSPEL TRINGS, I, II, or III.....	95 8 75
Each part bound separately, board cover. These are the Moody and Sankey hymn-books. The new No. IV., board covers, words only, same price.	

GLASSWARE.	
1 BERRY DISH, 9x6 1/2, beautiful pattern..	90 8 50
1 SUGAR, CREAMER, BUTTER, and SPONGEHOLDER, Ten cents each, sold in set, or separately. The butter does nicely for comb honey, separately, board cover. The sugar for candied honey. The whole set for 55c.; for illustrations, see DEC. JUVENILE, 1882.	80 7 50
1 MCNET JAR, ornamented, with glass cover, a beautiful dish for only 10c..	95 9 00
1 PLAIN GOBLET with engraved band....	85 7 50
1 LAMP, HAND, no burner or chimney....	85 7 50
1 LAMP, ON FOOT, no burner or chimney....	95 9 00
1 MASON FRUIT-JAR.....	95 9 00
1 MATCH-SAFE, beautiful pattern, handy. Above is glass, after the "picket fence" pattern so much now in vogue. It is also used as a toothpick holder.	75 7 00
1 OVAL DISH, 9 IN., glass, elegant.....	85 8 00
1 OVAL DISH, 7 IN., COVERED.....	95 9 00
1 SALTS, glass, large*.....	80 7 50
8 SALT - CELLAR, wheelbarrow, glass; a wonderfully nice toy for children.....	85 8 00

9 HAMMER, SMALL, for Nails*.....	65 6 00
6 HAMMER, MAGNETIC.....	90 8 50
A most useful tool where many tacks or wire nails are to be driven. A wonder for a dime.	
20 HAMMER, FULL SIZE, Carpenter's, Adze Eye.....	95 9 00
11 HAMMER, SECE, small size*.....	80 7 50
Nice for women and children - they can't miss the nail.	
2 HANDBERGHIEF, GENTS', LINEN, good size.....	90 8 50
2 HANDBERGHIEF, LINEN, LADIES size.....	90 8 50
Nice, with plain and "mourning" borders.	
2 HIDE'S, JAPANESE PAPER, 10c per doz.....	95 9 00
2 HANDBERGHIEF, CAMBRIC, GENTS' size; fine and beautifully figured*.....	65 6 00
1 HARTSHORN, spirits of, 2 oz.....	85 8 00
11 HATCHET, "G. WASHINGTON," Bronzed.....	90 8 50
Splendid for the juveniles to chop down "cherry-trees."	
6 HITCHING-POST RINGS, iron, tinned; strong and handsome.....	75 6 50
9 HORSE-RADISH GRATERS. Large, and strongly made.....	75 6 50
4 HOSE, LADIES', both white and colored; excellent goods for the money.....	85 8 00
2 INK POWDER for CHIEIROGRAPH, best.....	85 8 00
3 JOHN FLEMING'S Talk and Pictures; a book of 122 pp. and 40 pictures.....	90 8 50
By Rev. Chas. H. Spurgeon. This book is so full of wholesome instruction that I feel happy every time I sell one.	
4 KNIFE, KITCHEN, fine steel.....	80 7 50
With beautifully finished handle.	

* Three for 25 cents.

SHOULD YOU EVER COME TO MEDINA, BY ALL MEANS CALL AND SEE US. OUR LUNCH ROOM ADJOINS OUR COUNTER STORE.

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USEFUL ARTICLES FOR 10 CENTS EACH.

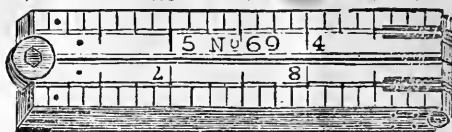
JULY

Postage.]	[Pr. of 10, of 10
5 KNIFE AND FORK	80 7 50
An excellent article in either cocoa wood handles, or white bone. A knife and fork count two.	
15 KNIFE TRAY of wood, make a splendid nail box, our own make.....	98 9 50



2 KNIFE, BOYS, TWO-BLADED	95 8 50
Although the blades are not American make, they are steel, and a wonder for 10c. Either in ebony or cocoa.	

Postage]	Pr. of 10, of 100.
2 RUBBER BANDS, 1/4 in. wide, doz. bunches	85 8 00



2 ROLL 1 FOOT, Box-wood, Pocket*.....	75 7 00
20 REVOLVING PIN, Revolving Handle*.....	75 7 00
18 SADD IRONS, toy, with stand	85 8 00



2 AMERICAN KNIFE, EXACT SIZE OF CUT. FINE STEEL BLADE, COCOA WOOD HANDLE	95 9 00
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2 KNIFE, WHITE HANDLE, ONE-BLADE, for Boys or girls	95 8 50
Well made, a wonder for a dime.	
3 LAMP BURNER, Venus	85 8 00
Two sizes, for straight chimney, No. 0, or 1. I have decided these to be the best burner made. No. 2 burners one-half more.	
10 LADLE, same as on 5c counter, but Larger and Heavier*.....	80 7 50
2 MATCH BOX, RUBBER	85 8 00
Opening at either end, very handy.	
5 MAGNET, 3 INCH. Horse Shoe.....	95 9 00
A beautiful scientific toy, formerly sold as high as 50 c. These are nicely finished, and very powerful. Be careful not to let them touch watches.	
13 MATCH SAFE, BRONZED iron, double, pretty and useful	85 8 00
13 MALLET, Wood, excellent.....	85 8 00
2 MEASURING TAPE, BRASS case, Spring, 5 feet	90 8 50
MIRROR, WOOD FRAME in Gilt	85 8 00
12 MINCER, or Chopping Knives, double bladed, steel	95 9 00
5 MUGS for children	85 7 50
These are decorated with fables, and lettered for the little ones.	
8 MUSTARD-POT, China	85 8 00
A very pretty utensil, with a mustard-spoon also China.	
3 NAFEN-RING on stand, jet, enameled ..	75 7 00
A very pretty design.	
2 NAFEN, excellent for 10c.....	85 8 00
2 NECK-TIE, Gents, Satin, a wonder for 10c	75 6 50
7 NUT CRACKER, stout, will crack Hickory nuts	95 9 00
2 NUT PICK, NICKEL, very pretty	95 9 00
OIL, SEWING MACHINE	90 8 50
The very best that can be obtained, 4-oz. bottles. This is also the best oil for other light machinery.	
3 OUR HOMES, Part I or II*.....	80 7 00
7 PADLOCK, late improved, 2 keys	90 8 50
PAN, PUDDING, 9-in. Rockingham ware, a most convenient implement	85 8 00
5 PAPETERIE, or box of stationery	95 9 00
Juvenile, 24 sheets of paper, and 24 envelopes. Just the thing for the little girls and boys who write for GLEANINGS.	
16 PAPER WEIGHT, BRONZE*.....	75 7 00
3 PAPER OF PINS, best quality*.....	80 7 50
2 PEN, PERFECTION, gold-colored, per doz	95 9 00
2 PEN, WATER, writes with clear water..	75 7 00
Beautifully finished in Jet and Nickel, writes beautifully. Ink supplies, same price, for a box of 3.	
2 PENS, GILLOTT'S Celebra'd 503 steel, 1 dz	85 8 00
Gillott's No. 1 (kind used by M. B. Moore) same price.	
4 PENCILS LEAD, 1 doz. for 10c*.....	75 7 00
Am. Pencil Co. and very fair pencils (in doz. packages.)	
4 PITCHER, WHITE, 1-qt., nice.....	85 8 00
4 SOCKET LEVEL, to be Put on a Square*	75 7 00
3 SOCKET OILER, a most handy implement	90 8 50
11 POTATO MASHER, Large*.....	55 5 00
9 POKER to stir the fire, tinned iron, wood handle, nice*	75 7 00
2 PRIMER, one-syllable, 100 fine pictures	85 8 00
2 POWDER GUN, insect-destroyer	90 8 50
Powder for sale, in 10 cent packages, same price. Good for ants, flies, and every description of insect vermin.	
3 PRICK PUNCH, best tempered steel.....	85 8 00
4 PUNCH, CENTER, Machinists	95 8 00
2 PURSE, SPECIE, first rate	85 8 00
11 RAT TRAP, a regular neck breaker*....	80 7 75



* Three for 25 cts.

2 SAWS, BRACKET or Piercing.....	80 7 50
Six different sizes for bracket work or sawing metals, 1 dozen for 10c. (For frames for the same, see 50c counter.)	
2 SAWS, SCROLL, best American make*..	80 7 00
For Barnes or other foot power saws; 3, 4, and 5-16 inches in width, and 7 inches long; pierced at each end.	
7 SCHOOL BAG, or satchels, sea grass.	85 8 00
16 SCHOOL SLATE 8x10 1/2, with an ingenious	90 8 50
pencil case concealed in the frame and a sheet of drawing lessons accompanying.	
3 SCRATCH AWL, tinner's, tempered steel..	90 8 50
SCREWS, Bessemer steel, 1/4, 3/8, 1/2, and 5/8 in.; postage, 2, 3, 4, and 4 cents respectively, per gross.	
3 SCREW DRIVER, Wood Handles, Strong and Nice, 7 1/2 inches Long.....	90 8 50
2 SCREW DRIVER, to put in a BRACE, a fine finished tool.....	85 8 00
1 SCYTH-STONE, Indian, and extra good ..	95 9 00
2 SEWING-MACHINE NEEDLES	75 7 00
Paper of three, for any leading sewing-machine.	
7 SHEARS, 9 1/2 inches, excellent for 10c....	85 8 00
6 SHIPPING-TAGS, for addressing goods, in packages of 100	85 8 00
Your address, etc., printed on the above for 25c more, or on 1000 for \$1.50.	
8 SIEVE, in WOOD Frame, 10 1/2 in. Round ..	85 8 00
2 SILE HANDKERCHIEF, wonderful for 10c	95 9 00
2 SLATE, BOOK	80 7 50
Nice to carry in your pocket for memoranda.	
1 SOAP, CAWMAEL "Creme" 3 cakes in a nice box for 10c.....	85 8 00
18 SOAP, Frank SIDDALE'S Celebrated, washes clothes without boiling and without injury; per box of 36 cakes, \$3.15; 10 boxes, \$29.70.	
4 SOAP STAND, Silvered Wire.....	80 8 50
3 SPECTACLES, any age, wonderful for 10c	80 7 50
A nice strong spectacle-case for the above on 3c. counter.	
3 SPECTACLE CASE, tin, just right for our 10-cent spectacles.....	85 8 00
3 SPOON, TEA, German Silver, Hall & Elton's well-known make	98 9 50
Table spoons, just twice price of teas.	
5 SPOONS, TEA tinned, a set of 6 for 10c.	85 8 00
2 STAND, TEA POT, Silvered Wire.....	85 7 50
9 STARCH-KETTLE, a handy implement	95 9 00
12 STEAK POUNDER, turned of wood*.....	65 6 00
4 STEEL for Sharpening Knives, good, Also good for countersinking, or reaming metals.	85 8 00
4 STRAW CUFFS, to keep your shirt sleeves clean when working in the Honey* ..	65 6 00
2 SUGAR SHELL, almost as pretty as one that costs a dollar.....	85 8 00
2 SUN GLASS or burning glass	75 6 00
4 SUSPENDERS Excellent for the money..	90 9 50



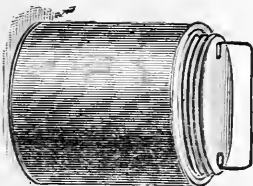
4 TACK CLAW, Steel, Enameled Handles.	95 9 00
10 TEA-CUP AND SAUCER, child's, decorated ..	80 7 00
A set of 6 in neat willow basket for 50 cts.	
12 TEA CUP AND SAUCER, for children, white granite.....	85 8 00
5 TESTAMENT, NEW VERSION	95 9 00
Clear plain print, paper cover. A great help to a proper understanding of the Scriptures.	
4 TOWEL, same as 5c ones but larger and better, all linen	90 8 50
2 TOOTH BRUSH, good quality	85 8 00

* Three for 25 cents.

Postage.]	[Pr. of 10, of 100
2 TWEEDERS, watchmakers'	95 8 50
Three different kinds; exceedingly convenient and useful for many purposes. (Handy for amateur printers.)	
2 TWINE CUTTER	85 8 00
To screw on your counter. Very handy for merchants.	
3 TWINE, pink, cotton, jewelers'	75 7 00
Put up in 2 oz. balls, just the thing for nice packages.	

TINWARE.

10 BAZING TIN, oblong, square, heavy, wired, a most useful size*	80 7 50
10 CANTEEN or COFFEE FLASK, 3/4 qt.	85 8 00
12 COFFEE CANISTER	95 9 00
9 COFFEE POT, 1 qt., excellent for 10c.	90 8 50
8 CULLENDER, a wonder for a dime	90 8 50
8 CUP DIPPER or Ladle, solid tinned iron*	75 7 00
8 DIPPER, 1 QT*	80 7 50
8 DIPPER, 2 QT. tin, well made	85 8 00
A splendid large dipper for a dime. At same price a beautiful retinned dipper holding over a quart.	
10 DIPPER, retinned, handy and nice	95 9 00
13 DRIPPING-PAN, tin, 10 1/2 x 13	85 8 00
10 DUST PAN, Japanese, full size	75 7 00
6 FUNNEL, QUART, Just right for Honey	85 8 00
11 GEM PANS, 6 in a frame	95 9 00
9 LUNCH BOX, Tin, Japanese	95 9 25
8 MILE STRAINER, pretty and useful	85 8 00
10 MOLASSES or HONEY CUP, Japanese	95 9 00
8 OIL CANS, 1 QUART, for kerosene	98 9 50
5 OILERS, ZINC, Spring Bottom	90 8 75
8 PAIL, 1 QT., COVERED* our make	60 5 25
18 PAIL, with cover, 4 quart	98 9 50
These are made for oyster-pails, but will answer for honey. The cover slips over after the fashion of the Daddant honey-pail.	



JONES'S NEW HONEY-PAIL.

	Capacity in pounds.	Price of 1.	Price of 10.	Price of 100.
6	6	55	5 25	
7	7	68	6 50	
8	8	70	7 00	
9	9	88	8 00	
10	10	98	9 50	

12 PAIL, COVERED, 2 QUART, good	85 8 00
Japanese and lettered "Pure Honey," double price.	
13 PAIL, 4 QUART no cover, (called 6),	95 9 00
10 PAN, 3 QUART (or basin) deep,*	80 7 50
One of the most convenient pans for baking, etc., as it is quite deep and has no seams. Just the thing for "baked beans."	
10 PANS STEW, very nice, 1 qt with handle	85 8 00
10 PAN, CARE, Scallop, with tube	95 9 00
12 PANS, PATTY, per doz	85 8 00
Six different patterns. Nice for maple sugar cakes, etc.	
10 PAN, BREAD, OVAL, 8x10x2 1/2	84 7 80
18 PAN, MILE, 4 QT. Plain (called six quart)	95 9 00
Just think of it! A fair-size, very pretty milk-pan, for 10 cts. The same re-finished, 3 cents each extra.	
12 PAN, STEW, with handle; called 2 qts., but really 3 pts.	75 7 00
9 POT-COVER, tin, 1 1/4 in., hemmed and handled	75 7 00
8 QUART MEASURE, Tin, with lip, exact	95 9 00
8 SCOOP, Tin, for "scooping" honey, seeds, flour, etc., 1 qt.	85 7 50
8 WATER, JAPANESE, Plain, and handy	95 9 00
10 WASH BASIN, 10 IN., re-tinned, nice	85 8 00
3 WALLET	85 8 00
Imitation calf, old Vermont bill holder.	
2 WALLET, LADIES	85 8 00
Fine soft leather, nickel ornamented.	
23 WRESTSTONE, best Hindoo	85 8 00
8 WHIP, RIDING	80 7 50
21 WOODEN BOWL, 1 foot wide	85 8 00
5 WIRE SEWING, well made, very useful	80 7 50

OUR "15 CENT" COUNTER.

1 AXLE GREASE, Dixon's best, 1-lb. boxes*	1 20 11 00
5 BELL, small, for School Teachers	1 40 13 50
3 BELL PUNCH	1 30 13 00
The best thing for the purpose made, as it makes any sized hole, and requires no block or hammer.	
3 RULE 2-FOOT, Box-wood, Pocket	1 20 11 00
4 BROOM HOLDER, silvered wire, just right for Whisk Brooms	
	1 25 12 00
32 BRACKET, per pair, size 6x8 in.	1 30 12 00
For holding clock or other shelves, very handsome. Neat and pretty shelves with drawer for above, same price; by mail, 65c.	
3 CARPENTERS COMPASS 4-in., steel	1 35 13 00
3 CLOCK OIL, an excellent oil for clocks, watches, or light delicate machinery	1 45 14 00
17 COAL SHOVEL, with long handles	1 40 13 00

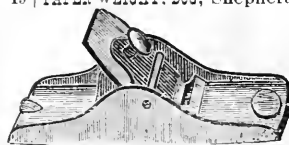
*Three for 25 cents.

Postage.]	[Pr. of 10, of 100
10 CLOTHES BARS, or towel-rack, to screw against the wall	1 25 11 00
24 COAL TONGS, with spring to open	1 40 13 00
9 CORN POPPER, good size	1 25 12 00
2 COUNTERSINK AND GIMLET	1 25 11 00
To put in a brace. This handy little tool bores for the screw, and countersinks for the head, at one operation.	
5 DICTIONARY, cloth bound	1 45 14 00
Twenty-five thousand words and phrases, and illustrated with 250 engravings, handsomely bound and wonderful for 15 cents.	
13 EGG-BEATER, "Family" good	1 10 10 00
13 ESSENCE, JAMAICA GINGER, 2 oz.	1 40 13 50
As good as any.	
5 FILE, DOUBLE-ENDER, 7 INCH, with handle*	1 20 11 25
3 FILES, CIRCULAR SAW, CANT, 5 in., Ligh-ning (see cut on page 15)	1 25 11 00
4 FILE, DOUBLE-ENDER, 10 INCH	1 25 12 00
(No handle; handle for more) see cut on 10c counter.	
3 GLOVES, LADIES, cotton lined, excellent for the money	1 40 13 00
1 GLYCERINE, in large 4 oz. bottles	1 25 11 00
For making photographs, and to keep hands from chapping.	
2 GOSELY ETINGS, I, II and III in one	1 45 12 50
Words only, board covers. This I think the best pocket edition. This complete is the book used by Moody and Sankey.	

GLASSWARE.

1 BERRY COMPOT, no foot; glass; very pretty, 8x2 in	1 30 12 50
1 BUTTER DISH, Albion pattern, no foot	1 30 12 50
A very nice piece of work for the price.	
1 SALT AND PEPPER, Combination	1 40 13 00
Gives both or either condiment at pleasure.	
1 HONEY CUP or Syrup; glass, with hinged tin cover	1 20 10 00
1 LAMP, glass, on foot, no burner or chimney	1 20 11 00
1 LAMP SHADE, PORCELAIN	1 20 10 00
Porcelain, or opaque glass, 6 in. These are the only really durable, and always neat and clean shades. The brass ring to support them on the lamp cost the same as the shade.	
1 SPOON HOLDER, London pattern, looks like a picket fence	1 35 12 00

9 HAMMER, MAGNETIC, all metal handle, a beautiful tool	1 25 12 00
21 HAMMER, CARPENTER'S, Adze eye, rather small but nicely finished	1 30 12 00
19 HAMMER, SHOES, nice, full size	1 40 12 50
2 HEAD, ladies, linen, hem stitched	1 40 13 00
10 HEARTH-BROOM	1 25 12 00
Just the thing for little girls. It is a neat, strong, well-made broom, only made small size. Just right for the "small house-keeper."	
15 HONEY or MOLASSES GATE, made to screw into a barrel, 3/4 inch bore	1 40 13 50
This, although rather small for honey, is very useful for a great many purposes.	
3 KNIFE and FORK for children	1 40 13 00
Very pretty, white handled and bolster, nice finish, per pair.	
4 KNIFE, "BARLOW," American	1 25 12 00
One inch longer than the 10c knife, and the blade is hand-forged razor steel.	
2 KNIFE, 2 BLADES, IVORY HANDLE, 2 blade	1 25 12 00
3 KNIFE, BOY'S, 2-BLADE, WHITE HANDLE	1 20 10 00
3 LACE CUTTER, a most handy tool for cutting strings for lacing belts	1 35 12 00
3 LAMP BURNER, VENUS, No. 2, for straight chimney, or No. 0 or 1, sun hinge	1 20 11 00
Sun hinge No. 2, one-third more.	
8 LUNCH BASKET, or sachet, straw	1 40 13 00
5 MAGNET, horse shoe 3 1/2 inches	1 40 13 50
2 MITTENS for the baby, all wool, and all colors, regular little beauties*	1 10 10 00
1 MOLDING BOARD, about 15x24, to go with the 5c Rolling Pin	1 30 12 00
2 NEEDLES, best, Package of five papers	1 40 13 00
Including large sizes and for all purposes.	
13 NOTE PAPER, package of 1/4 ream	1 35 12 00
6 NUTMEG GRATER, Rajah pattern	1 30 12 00
The best thing out, uses up all the nutmeg.	
8 PALACE, stout enough for a jail	1 25 11 50
5 PAPER DUSTER or FLY BRUSH, made of colored tissue paper	1 35 13 00
19 PAPER WEIGHT, 203, Shepherd, pretty	1 25 12 00
6 PLANE 1 40 13 50	



At first glance you might take it for a toy plane; but if you try it on a board you will find it is a plane in reality. They will sharpen a lead pencil beautifully, trim up a wood cut or electrolyte, take the corners off a rough box, reduce the width of a board, and do it all in a workman-like and finished manner; and when they need sharpening, the bit is taken out or adjusted secretly, by simply turning a single screw with the finger and thumb.

*Two for 25 cents.

Postage.]	[Pr. of 10, of 100
3 PERFUMERY, Wencke's genuine.....	1 30 12 00
2 POCKET COMPASS	1 40 13 00
A most valuable instrument when traveling in the woods when away from home on a cloudy day, etc. A smaller size, with ring, to hang it to a watch-guard, ten cents.	
4 PUTTY KNIFE, like one on 25c counter but plainer finish*	1 20 11 00
2 RUBBER BANDS, light, gross boxes	1 40 13 00
2 SCISSORS solid STEEL handle and blade	1 40 13 00
2 SCISSORS, gent's solid steel	1 40 13 00
5 SCREWS, Boss'r steel, 3/4 in., per gross	1 30 12 50
6 SCREW DRIVER, 10 1/2 in., long*	1 10 10 00
One of the best, if not THE best, size for general purposes.	
4 SHEARS, steel blades	1 35 13 00
An annealed handle, 7 inch.	
6 SIEVE, in WOOD Frames, Wire, round	1 20 12 00
20 SLED, like 25c one, but only 4 1/2 x 6 x 12	1 20 11 00
12 SPECK-SHAVE, all metal, a good tool	1 30 12 50
6 STAND for hot dishes; a beautiful piece of lustral wirework	1 35 13 00
5 TIN-SQUARE; 4 in. steel blade	1 40 13 50
5 Rosewood handle, brass lined; a beautiful tool.	
5 THERMOMETER, Best, 7 inch	1 30 10 00
Zinc dairy thermometer same price.	
10 TWINE, FLAX, Strong, 1/2 lb. Balls	1 30 12 50

TINWARE.

5 TUNNEL and STRAINER, Combined Adjustable, See Jan. GLEANINGS, 1882	1 20 10 00
11 HALF-GALLON MEASURE; tin, with lip; exact	1 25 10 00
15 SIEVE, all metal	1 20 11 00
A new, and very valuable utensil, nearly a foot in diameter, and without seam or joint.	
14 COFFEE-POT, 2-quart	1 40 13 50
24 DISH PAN, 8 qt., with handles	1 40 13 50
This is the pan used for cooking Wax Extractor. It also forms an excellent pan for mixing bread, with the addition of a nice, strong, well fitting, sloping cover, which costs 10c more.	
12 OIL CAN, 2 qt., real nice; well made	1 25 12 00
20 PAN, DRIPPING, tin	1 25 11 00
With wired edge, and ring on each end, 2x11x10 1/2.	
15 PANS, PATTY, per 1/2 doz.	1 25 11 00
Two different sizes and patterns, for sugar cakes, etc.	
14 PAN, MILE, called 8 qt., really 6 qt., a good large pan and re-lined	1 25 12 00
15 PAIL, COVERED, 3 quart	1 25 12 00
14 GALLON CAN, for maple molasses	1 20 11 00
Has a screw cap, and handle to carry it by. Nice for honey also.	
62 WASHBOARD, Serpentine Zinc	1 30 12 00
2 WATCHMAKER'S EYE-GLASS	1 50 14 00
A most useful magnifying-glass for a variety of purposes. A good article, that usually sells for 25c or higher.	



7 WEEDING HOOK	1 20 11 00
Tinned to prevent rusting, a most convenient tool for working among plants.	
4 WIRE BASKET, Willow, 7 1/2 in. int.	1 20 11 00
8 WIRE-RING POT-CLEANER	1 20 10 00
The celebrated Iron Dish Cloth, a most valuable article in the kitchen for cleaning pots, kettles, etc.	
28 WOODEN BOWL, 14 in. in diameter	1 35 13 00

Twenty-Five Cent Counter.

18 BAG for grain, 2 bushels, seamless ..	2 25 21 00
18 BAG-TWINE, per lb.	2 25 21 00
Easy to tie when your fingers are cold, but strong and never slips.	
8 BELL, DINNER, Brass, 3/4 in. diameter ..	2 10 20 00
7 BIBLE, nice type, neatly bound.	2 40 23 00
	
11 BOX SCRAPER, Excellent for Clearing Bottom Boards, Etc., from Wax and Propolis.	2 25 20 00
18 BRACE, Carpenters, with set screw, just right for tapping trees	1 60 15 00
3 BIT, each, best make, 6 sizes; viz., 14, 7-16, 3-8, 5-16, 3/4, and 3-16	2 00 18 00
6 BUTCHER KNIFE, 10 1/2 in. long, J. Russell Co.'s best	2 00 18 00

*Two for 25 cents.

Postage.]	[Pr. of 10, of 100
3 BUTTER KNIFE, silver-plated on steel, finely finished	2 25 22 00
5 BROOM, best quality	2 30 22 50
6 BRUSH, PAINT, oval, and well-made; very fair for painting Bee Hives	2 25 20 00
14 BRUSH, WHITEWASH, with handle	2 25 21 00
8 BRUSH, HORSE, excellent	2 10 20 00
4 BRUSH, VARNISH, oval, good	1 80 20 00
2 BRUSH, COUNTER, nest and useful	1 75 16 00
2 BUSHEL BASKET, good	2 00 18 00
2 CALIPER RULE, 1/2 foot, brass ends, (see cut in 50c counter)	2 25 22 00
1 CAMP STOOL or lawn, folding; strong	2 25 21 00
4 CARPENTER'S DIVIDERS, with wing	2 25 20 00
10 CASTER, TOY, 3 bottles, Silvered wire, small, but handsome enough to make a little girl crazy	2 25 20 00
48 CLOTHESING, best wooden, 6 doz. in a basket, basket and all, only 25c*	1 60 15 00
1 CLOTHES BASKET, Holding nearly 2 bushels	2 25 22 00

These, although pretty light, are a great convenience for holding; light, bulky articles. We use several dozen of them in our factory, and they nest one in the other, they occupy but little room when not in use.

10 EGG-BEATER, Dover, the real genuine ..	2 25 20 00
3 FILE, SAW, for Circular Saws, 6 in.	2 25 20 00
5 FILE, SQUARE-ENDER, 10 in., with handle* ..	1 60 15 00
25 GATE, MOLASSES, for honey, or oil, to screw in barrel, 3/4 in. bore	2 25 20 00
1 GARDEN RAKE, malleable iron	2 25 22 00
3 GLOVES, LADIES, cotton lined, long wristed	2 25 22 00
3 GLOVES, MENS, ladies' cloth, very warm and nice	2 25 22 00
18 GLUE, 1 pound	1 80 20 00

For making chirographs, or carpenter's use: an excellent article.

GLASSWARE.

1 GRADUATED MEASURE	2 30 22 50
A most valuable article in the household as it measures also, but very correct, from 1/4 gill to 1 quart, and is a very strong and handsome one.	
1 HONEY DISH, with cover, a magnificent piece of glassware, new design, just out	1 75 16 00
1 BUTTER-DISH, Albion pattern	1 75 15 00
15 INK STAND, small-shell pattern, mounted in bronze, very pretty ..	1 75 16 00
1 LAMP, HAND, Glass, complete	2 25 22 00
1 LAMP, LARGE, glass, on foot, with burner, no chimney	2 25 21 00
1 LAMP SHADE, PORCELAIN	1 80 16 00
Same as on 15c counter only 7 in. Brass ring to support them same price.	
1 TOY SET, CHILD'S, very pretty; butter-dish, pitcher, spoon-holder, and sugar-bowl in a nice box	1 80 17 00
1 HONEY-PITCHER	2 25 20 00
This is a beautiful piece of glassware, and has a britannia automatic cover which keeps the pitcher always closed when standing on the table, but opens the minute you tip the pitcher to pour.	
1 PLATE, BREAD, SNOWFLAKE, 11 in., "A good mother makes a happy home" ..	2 10 20 00
1 PLATE, BREAD, "BEE-HIVE," especially for bee-keepers	2 00 18 00
A beautiful plate, with bee-hive and bees, done in frosted work on the bottom. Heavy flint glass.	
1 PLATE, BREAD, "DAILY BREAD," glass, ..	2 00 18 00
Has the motto, "Give us this day our daily bread," blown in the glass around the edge, a most beautiful plate.	

12 HAMMER, CLAW, tempered steel, small size, silver eye, splendid for the money ..	2 25 22 00
10 HAMMER, RIVETING, cast steel, for machinists	2 10 20 00
8 HAMMER, METAL HANDLE, inlaid with Walnut, Light and Handsome* ..	1 60 15 00
19 HATCHET, chilled iron, Painted Red* ..	1 65 16 00
1 HOE, full size, best steel, riveted blades	2 40 23 50
1 HOE, LADIES SIZE, best steel, riveted ..	2 40 23 50
26 ICE-TONGS, tinned; can't rust	2 30 22 50

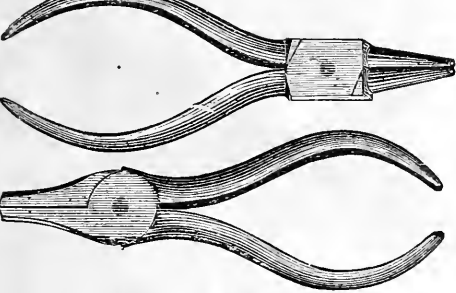
6 KEYHOLE SAW or Compass	2 00 18 00
With adjustable iron handle, a very convenient tool indeed, Disston's make. (extra blades 10c.)	
2 KNIFE, 2-BLADE, Fine Quality, Am.	1 90 17 00
3 KNIFE, 2-BLADE, HEAVIER than above ..	2 25 22 00
4 KNIFE, "WHOPPER," one blade	2 10 20 00

*Three for 50 cents.

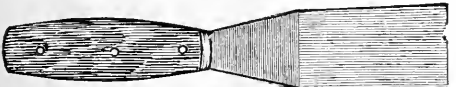
Postage. Pr. of 10, of 100
 2 | KNIFE, Ladies, IVORY handle, 2-BLADE | 2 25 | 20 00
 A beautiful knife for the money.
 8 | LAMP, BRASS, Night | 2 25 | 22 00



2 | MAGNIFYING GLASS, in very pretty rubber case, to carry in pocket..... | 2 25 | 20 00
 10 | MATCH SAFE, LUMINOUS | 2 25 | 20 00
 This always shows in the dark, so you can always find the matches. A scientific curiosity, and an unfailing wonder.
 2 | MEASURING TAPE, spring, 36 in., in Brass Case | 2 10 | 20 00
 3 | MITTENS, all wool, for either men, women, or children..... | 2 25 | 22 00
 | MOULDING BOARD, to match the 10c Rolling pin, about 18x24..... | 2 00 | 18 00
 18 | NOTE PAPER, pkg. of 1/2 ream; good... | 1 75 | 16 00
 6 | OIL STONE SLIP, the best | 1 70 | 16 00
 18 | PARAFFINE, per lb. | 2 25 | 21 00
 For waxing honey barrels, putting in starch, etc. etc.
 2 | PENCIL, AUTOMATIC, Eagle,* | 1 65 | 16 00
 With copying lead. This pencil has been a great boon to me. It writes very easily, and makes a plain purple mark that will copy as well as a copying ink if desired. A box of 3 leads for above, same price as pencil.
 10 | PAPERIE, or box of stationery..... | 1 75 | 16 00
 Containing 24 envelopes, and 24 sheets paper, fine paper, and a beautiful box to keep it in.



4 | PLYERS, FLAT NOSE, steel, very useful | 2 00 | 18 00
 4 | PLYERS, ROUND NOSE | 1 90 | 18 00
 3 | PLYERS, LONG NOSE | 1 75 | 16 00
 These are polished steel, and very pretty and useful tool.
 2 | PEN CASE and PENCIL, MORTON'S, Silver-plated | 2 00 | 18 50
 For Pen for above see 50c counter.



5 | PUTTY KNIFE* | 1 60 | 15 00
 Fine steel, cocco-vad handles, steel ferrule, beautifully finished, with stiff blades or thin elastic blades, as you choose. Excellent for scraping off wax and propolis in bee-hives. The blades are made extra wide with this end in view.
 | ROBINSON CRUSOE, Complete..... | 1 75 | 16 00
 Illustrated by many pictures, 240 pages, fine print.



12 | SAW, CARPENTER'S, 10 inch | 2 25 | 24 00
 Diston's make, a splendid tool for 25c. Nice because it is small.
 3 | SCISSORS, Solid STEEL Blade, Fine.... | 2 10 | 20 00
 3 | SCISSORS, GENTS' solid steel | 1 80 | 17 00
 7 | SCREW DRIVER, 1 Foot long, Fine..... | 1 90 | 18 00
 6 | SHEARS, 8-in., Solid Steel Blade..... | 2 40 | 23 00
 A great acquisition over those we have been selling. I have visited the factory, examined the steel, and seen it riveted and welded to the handles. They are made to cut, and WILL CUT. The same in nickel, 1 inch shorter, same price.
 3 | SILVER THIMBLE, Pure Coin | 2 30 | 22 50

Postage.] [Pr. of 10, of 100
 10 | SCREWS; Bessemer Steel: 2 sizes, 3/4, 1/2 in gross pkgs, per gross..... | 2 00 | 18 00
 2 | SILK HANDBERCHIEF, real silk | 2 25 | 22 00
 10 | SIEVE, WOOD frame, 12 1/2 inch | 2 00 | 18 00
 6 | SINGS to Be Hung in Door Yard..... | 2 00 | 18 00
 Three kinds in stock: "Money for Sale," "Bees and Queens for Sale," and "This Property for Sale."

| SLED, painted in fancy colors..... | 2 60 | 18 00
 Size 58x18; strong and serviceable.
 2 | SPECTACLES, steel frames, and excellent glasses..... | 2 00 | 18 00
 A spectacle case to mail them in will be with postage 2c more.
 14 | STEEL TRAP | 2 00 | 18 00
 A good one with a stout 2 ft. chain attached.
 | STEW PAN, STONE WARE, glazed..... | 1 75 | 16 00
 Can be set right on the stove without injury, has a bail to lift it by, a most useful utensil.
 10 | SOLDERING IRON (or coppers) 1/2 lb..... | 2 00 | 18 00



6 | TRY-SQUARE, all metal handle and blade, accurate inside and out, and a most beautiful tool for such a small sum of money..... | 2 00 | 17 50
 10 | THERMOMETER, Best, 10 inch* | 1 50 | 14 00
 TONGS, COAL | 2 00 | 18 00
 3 | "THE CHRISTIAN'S SECRET of a Happy Life," a book of 185 pages..... | 2 25 | 20 00
 Worth its weight in gold. The same HANDSOMELY bound in cloth (gilt edged), three times above price.
 36 | TWINE BOX, iron japanned | 2 00 | 18 00

TINWARE.

24 | COFFEE BOILER, 4 qt | 2 00 | 18 00
 17 | CULLENDER, full size, 11 in* | 1 65 | 15 00
 20 | DINNER PAIL, with cup and coffee Dish | 2 00 | 18 50
 25 | DISH-PAN, one solid piece of metal.... | 2 25 | 20 00
 Retinned, made exactly like the dipper as described below. Beautiful piece of work for the money. Holds 6 quarts.
 16 | DIPPER, very large size, retinned..... | 2 00 | 18 00
 This is made with strong riveted handle, suitable for dipping honey and maple syrup, and it will be found an extremely useful utensil on washing-days. As the whole is dipped in melted tin after it is finished, it has a bright silvery look, and might call forth admiration from any housewife. Holds 2 quarts.
 15 | OIL CAN, 1 gallon, well made | 2 00 | 17 00
 20 | PAIL, COVERED, 4 qt., * | 1 60 | 15 00
 12 | MILE STRAINER, stamped and re-tinned, a beautiful utensil..... | 2 00 | 18 00
 27 | PAIL, 10-QT., tin, stout | 2 40 | 23 00
 27 | PAIL, 6-QT., COVERED, Plain, Tin | 2 00 | 18 00
 18 | PAN, SAUCE, with lip, beautifully retinned, and looks as handsome as Silver-plated, holds 3 qts | 1 80 | 16 00
 21 | STEAMER, tin, 9 in., nice and useful | 2 00 | 18 00
 12 | TEA TRAY, Japanned, handsome..... | 2 10 | 20 00

20 | VISE to screw on the bench, with anvil, small, but a very handy tool | 1 70 | 18 00
 6 | WORK BASKET, Willow, 9 1/2 inch, pretty and useful..... | 1 50 | 13 00
 50 | WASHBOARD "O E" Double..... | 1 75 | 15 00
 This is a nice, light, good washboard, and with each one goes a very pretty and useful little recipe book, worth almost the 25 cents of itself.
 | WOODEN BOWL, 17 inches..... | 2 25 | 21 00
 11 | WORK-BOX, misses', with partitions and lock and key..... | 2 25 | 20 00



11 | WRENCH, COE'S PATTERN, 6 in., wrot | 2 00 | 19 00
 A beautiful nickel plated, vest-pocket wrench, furnished at same price as above. Opens 1 in., 4 in. long when closed. Postage 6 cents.

*Three for half a dollar.

*Three for half a dollar.

Postage.]

[Pr. of 10, of 100

Thirty-Five Cent Counter.

13 | BALANCE, 24 LB, with Tin Dish..... | 2 75 | 25 00
Suspended by 3 chains; 24 lbs. Chittillon's make.



20 | BOX CHISEL..... | 3 00 | 28 00
A most handy tool for opening boxes, and for taking apart box lives in transferring.

3 | BUTTER KNIFE, silver plated on steel, 8" capacity..... | 3 00 | 27 00

36 | CLOTHES LINE; WIRE, galv., 100 ft. long | 3 00 | 27 50

42 | COFFEE MILL, square box, good..... | 2 75 | 26 00

10 | COFFEE AND BRUSH TRAY..... | 3 30 | 32 00

10 | CRUMB AND BRUSH TRAY..... | 3 00 | 27 50

CUP AND SAUCER..... | 3 30 | 30 00
Nice white ware, set of 6 in a neat little basket.

6 | DIVIDER, Carpenter's, with wing and set screw, 7 1/2 in..... | 2 90 | 28 00

7 | FILE, CANT, lightning, best for circular saws, 10 inch, see page 15..... | 2 75 | 25 00

GLASSWARE.

1 | BERRY COMPOT, glass, on foot; a most beautiful article, 8x5 in..... | 2 50 | 22 50

1 | HONEY CUP, also good for syrup, so made that it can not possibly drip..... | 3 50 | 30 00

1 | INK-STAND, heavy glass. Ink can't be spilled..... | 3 25 | 31 00

1 | PITCHER, 1/2 GALLON, Glass, very nice. | 3 10 | 30 00

5 | HARMONY OF THE GOSPELS..... | 3 25 | 30 00
A most valuable aid to the study of the New Testament.

15 | HAMMER, RIVETING, cast steel, for machinists..... | 2 75 | 26 00

12 | HAMMER, STEEL, fine, finely finished..... | 3 25 | 31 00
Although rather small it is the best hammer that can be bought.

24 | HAMMER, CARPENTERS', full size..... | 3 25 | 31 00
Solid cast steel, adze eye. This is exactly like our 75c hammer, only it is not so nicely finished.

35 | HONEY GATE, extra large, whopper | 3 00 | 28 00
Made to screw into a barrel but can be soldered into a can by filing and tinning.



4 | KNIFE as above, RAZOR STEEL best, hand-forged, 3 1/2 in. long when closed | 3 00 | 28 50
We sent a single order to the factory for fifty dozen of them.

5 | KNIFE, WHOPPER, American, 2 blade..... | 3 25 | 31 00

2 | KNIVES FOR LADIES..... | 3 25 | 31 00
These are made of the best razor-steel, hand-forged, and finished in best style. We have three patterns. First, Ivory handle, German-silver tips; second, Black horn handle, German-silver tips; third, like the last, only longer, and with 2 long slender blades. This last is specially adapted to cutting out queen-cells, and we term it our "Queen-Cell" knife.

5 | MAGNIFIER, 2 lenses on 3 brass feet..... | 3 25 | 31 00

PAPER FAN, made of the best manilla | 3 25 | 32 00
paper, will stand sun and rain, and no hoops to drop off; they are light, strong, and pretty, and are a boon to humanity.

3 | POCKET COMPASS, 2 in., nickel-plated. | 3 00 | 28 00
With cover, a good reliable article; beautifully finished. The same, with ring, no cover, same price.

9 | POCKET WRENCH, 5 1/2 inches long..... | 3 00 | 25 00
Nickel-plated. Will open so as to take a nut 1 1/2 inches square. A very useful and pretty tool.

3 | RULE, 2-FOOT, BRASS-LINED complete | 3 00 | 28 00

15 | SAW, 12 IN. blade, Disston's make, | 3 25 | 31 00
Fine steel, and beautifully finished. Nice for small work, or the women to have about the house.

2 | SCISSORS, 4 inches long..... | 2 75 | 25 00
Handles as well as blades of finest quality of English steel, and beautifully finished.

2 | SCISSORS, LACE "BIG EYES"..... | 2 75 | 25 00
Same make as above. These are the most delicately pointed scissors I have ever found, and are the best thing to be obtained for clipping queens' wings.

33 | SCREWS, Bessmer Steel, 3 sizes, 1, 1 1/4, 1 1/2, in gross pack's, per gross..... | 3 10 | 30 00

8 | SHEARS, Fine, Solid Steel Blades..... | 3 00 | 28 00

8 | SHEARS, NICKEL-PLATED, 8 in..... | 3 00 | 27 00
Solid steel blades, and the best shears we can find at any price.

2 | SILK HANDERCHIEF, size 20x30 inches | 3 00 | 29 00
of the new dotted pattern; pretty and good.

4 | SPY GLASS or toy telescope, one draw | 3 00 | 25 00

18 | SOLDERING IRON (or copper) 1 lb..... | 3 25 | 30 00

8 | TABLE-STEEL, old style, and reliable. | 3 10 | 30 00

30 | VISE, Iron parallel jaws, 1 1/2 inch wide, to screw on table or bench, very handy..... | 3 10 | 30 00

4 | WOOLEN SOCKS..... | 3 25 | 30 00

Postage.]

[Pr. of 10, of 100

20 | WRENCH, 8 IN., Coe's pattern, wrought | 2 40 | 23 00
| WOODEN BOWLS, 18 in a cross..... | 3 00 | 25 00

TINWARE.

15 | COFFEE POT, 5 qt., "Whopper"..... | 2 75 | 25 00

23 | DINNER PAIL, with Coffee Cup..... | 3 00 | 25 00

35 | FARINA BOILER, 4 qt. Excellent..... | 3 25 | 31 00
This will do very well for a lamp nursery (see page 23) if set over a lamp, and the queen cells are cut out. A friend uses the same to raise bread, also.

34 | DISH, OR RINSING-PAN, 15 in..... | 3 25 | 30 00
Stamped of a single piece of tin, 15 inches across; 10 quarts, and a most handy utensil in the kitchen.

24 | GLUE POT, family, very handy..... | 3 10 | 30 00

16 | HUNTER'S SIFTER. The regular price is 75c. A rotary flour and meal sifter, mixer, scoop, measurer, weigher, egg-beater, rice-washer, pumpkin, tomato, starch strainer, etc. Mrs. R. says, she never knew any thing could be made so handy..... | 2 80 | 25 00



30 | PAIL, COVERED, 8 QT., for cream, etc..... | 3 00 | 28 00

30 | PAIL, 16-QUART, tin, good..... | 3 00 | 28 00

33 | STEAMER, like 25c one, but larger..... | 3 00 | 25 00

40 | STRAINER PAIL, 8 qt. Nicely made..... | 3 25 | 30 00

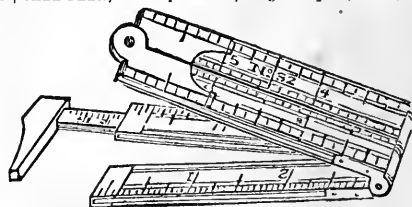
FIFTY-CENT COUNTER.

9 | BRUSH, CLOTHES..... | 4 00 | 37 50
All bristles and well made.

8 | BRUSH, PAINT, best for hive-painting | 4 50 | 42 00

25 | BACK SAW, 14 inch..... | 4 50 | 40 00
Disston's make, but stamped "Arthur." A splendid saw for fine work.

7 | CALL BELL, Duck pattern, very unique | 4 50 | 44 00



3 | CALIPER RULE, beautifully finished, one foot, 4 fold, brass ends..... | 3 75 | 35 00

CARPENTER'S SQU'S, good, but not steel | 3 50 | 30 00

27 | CARPENTER'S BRACE, pat. grip, 8 inch. | 4 50 | 42 00

25 | CHEIROGRAPH, Complete, 5 1/2 x 8 1/2, Ink, Pad, &c..... | 4 50 | 40 00

COFFEE POT, japanned, good..... | 4 50 | 40 00



19 | CARPENTER'S LEVEL..... | 4 50 | 40 00
This is a Level and Plumb combined, a most beautiful tool, finely finished in cherry, splendid for leveling up hives.

10 | CRUMB-BRUSH and tray..... | 4 00 | 35 00

3 | CUTTING-PLYER; 3 1/2 inch..... | 4 00 | 35 10
Polished steel; a beautiful tool.

CUPS AND SAUCERS..... | 4 00 | 35 00
With handles, set of 6, packed in a neat basket.

12 | ENVELOPES, good, packages of 100, with your business card, etc., neatly printed on each (3 packages for \$1.) | 2 80 | 24 00
Note: Heads, fine paper, to match above, same prices.

GARDEN RAKE, cast steel, 12 teeth..... | 4 25 | 40 00

GOLD PEN, MORTON'S "Magic," no case. This is a real gold pen..... | 4 25 | 40 00
For case see 25 and 75c counter.

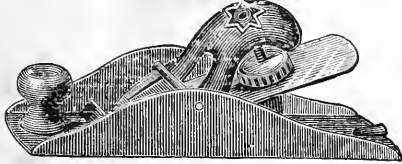
8 | COSPEL HYMNS, I, II, and III, words and music, paper covers..... | 4 75 | 43 75
The same in board cover, 10c extra each/book.



20 | HAND SAW, 16 inch; Very Neat, Made of Fine steel..... | 4 00 | 37 50

12 | HAND DRILL, geared, with chuck and 6 drills, splendid tool for the money | 3 50 | 32 00

Postage.		Pr. of 10, of 100
7	HAMMOCK for children	4 50 42 50
	Made of strong cords of variegated colors.	
22	HAMMER RIVETING for tinners, blacksmiths, or machinists	4 00 35 00
13	HAMMER, Fine Steel, finely finished	4 25 40 00
	Although rather small, it is the very best hammer that can be bought. A saddler's or horse-shoeing hammer at same price.	
23	HATCHET, Good Steel, well finished, with claw, a nice tool for the money	4 00 35 00
	HOE, fine steel, solid shank	3 50 33 00



25	IRON PLANE. OUR 50C, 7 in. long	4 25 40 00
	This is a beautiful and useful full sized plane.	
	LANTERN, for kerosene, good, & nice	4 50 44 00
	LAMP, large size, complete with burner; no chimney; beautiful	4 00 35 00
10	MASON'S TROWELS, 7/8 in. blade	4 00 44 00
	Disston's best. These are preferred by some to any kind of a honey-knife for unpeppering.	
10	MEASURING TAPE, 50 Feet, Fine	4 25 40 00
2	MEASURING TAPE, NICKEL Case, 75 in.	3 50 30 00
	spring, with stop; handsome; a beautiful present for a lady.	
	MOULDING-BOARD, about 24x30 inches	4 50 40 00
	Made of a single whitewood board, and cleated to prevent warping. Something every woman wants as soon as she sees it.	
34	NOTE HEADS, and LETTER HEADS, such as we use per package of 500	4 50 42 50
9	PAPER WEIGHT, GLASS, (4 Cannon Balls) very pretty	4 00 37 50
16	PRUNING SHEARS, or Sheep-toe	4 50 44 00
	Excellent, have been sold for a dollar or more. Detachable steel blades.	
14	RUBBERS, LADIES', 50 Feet	4 50 42 50
	Light, but nice to keep one's feet clean. We have sizes from 3 to 7. No. 6 is exactly what I use when I run out in the mud.	
7	SAW FRAME, hand, Steel, for holding bracket saws found on 10c counter	4 00 37 50
3	SCISSORS, 5 IN. long, English make, and best English Steel, beautiful	4 00 37 50
3	SCISSORS, BUTTON HOLE	4 50 44 00
	Same size and make as above, with screw adjustment for any sized hole.	
16	SCREW DRIVER, 30 inches long	3 75 35 00
	This is so large and strong, that, in an emergency, it will do nicely for a small handspike or crowbar.	
34	SCREWS, Bessemer Steel, 2 in.; in gross packages	4 00 37 50
6	SHEARS, 9 in., solid steel blades, Nickel-plated	4 00 35 00
	SHOVEL, FOR BOYS, Steel	4 00 38 00
	SHOVEL for Men, Steel and good	4 50 44 00
	SICCLE, or Grass Hooks, Fine Steel Beautifully Finished	4 00 35 00
2	SILK HANDKERCHIEF, real silk and good size	4 50 40 00
	SPADE, steel, full size; well made	4 50 43 00
5	SPY GLASS or toy telescope, 2 draw	4 00 35 00
15	STEREOSCOPE, for views see 5 cent counter	3 75 35 00
	TRUNK, very good, 9x10 1/2 x 20	4 50 40 00
	The above will do nicely to pack goods in when you make an order. They are splendid trunks for the money.	

TINWARE.

32	DISH or RINSING PAN, re-tinned, 17 inches across, 19 quarts. (See 35c counter.)	4 50 40 00
40	DINNER-PAIL, oblong, square	4 50 42 50
	Contains a can for coffee, tray for pie, etc., and drinking-cup. Very convenient.	
50	PAILS, covered, per nest; our make	4 00 35 00
	A nest of five sizes, viz., 1 pt., 1 qt., 2 qt., 3 qt., and 4 qt. These pails have raised covers, and are very cheap and handy.	
	PAIL, STRAINER	4 75 45 00
	TEA-KETTLE, COPPER BOTTOMED	4 00 39 00
	This is rather small; a large sized one, with flat tin bottom, will be furnished at same price.	
16	TUREEN, soup, white granite	4 50 42 50
16	UMBRELLA, tip-top for the children to go to school with	4 00 38 00
	For 10c extra, your name plainly printed on inside.	
42	VISE, 1 1/2 IN., Iron, Parallel Jaws	4 00 35 00
	To screw on a table or bench, very handy, and an excellent tool for 50 cents.	
	WASHBOARD, stone, very nice	4 50 42 50
16	WALTER, 18 inch, japanned	4 25 40 00
41	WRENCE, 12 IN., Coe's pattern wrot.	4 00 35 00

Seventy-Five Cent Counter.

91	BEST THOUGHTS and DISCOURSES Moody's	6 00 50 00
	Recently revised, and 74 new pages added.	

Postage.		[Pr. of 10, of 100
	BASKET, 3 BUSHEL Oak Splint	7 00 65 00
11	CALL-BELL, in bronze, very pretty and just the thing for a Sunday school	6 00 55 00
27	CARPENTERS' BRACE, Patent Grip, 10 inch Sweep	6 00 58 00
64	CHEIROGRAPH, Foolscape Size, 8 1/2 x 12 1/2	7 00 60 00
	With this size we give a 2 oz. bottle of best ink. Ink in powder, if sent by mail.	
60	COFFEE-MILL with a covered hopper	6 00 55 00
2	GOLD PEN, Morton's, in Silver plated case with pencil also	7 00 65 00
10	GOSPEL HYMNS, all in one volume No. 1, 2, 3, 4, words and music, board covers.	7 25 70 00
	GRINDSTONE, Family, a little beauty, for such a small sum of money	6 50 60 00
24	HAMMER, best steel, adze eye	6 00 55 00
17	HAMMOCK, stout, and exceedingly well made for the money	6 50 60 00
10	LANTERN, best, tubular, with guards	7 00 65 00
	LIFE OF GARFIELD, from Canal Boy to President, Alger	7 00 67 00
	Every boy in our land should read it.	



5	PLIERS and WIRE SHEARS combined	6 50 60 00
	This is a most useful tool, well made, and of excellent steel and temper. Above is 4 1/2 inches long, and cuts No. 14 wire.	
18	PRUNING-SAW, Boynton's Lightning	6 50 60 00
	Eighteen inches long, coarse teeth on one side, and fine on the other made to screw on a pole when desirable.	
8	SHEARS, 10 inch, Solid Steel Blade, Nickel Plated	6 75 65 00
	This is the best and prettiest pair of shears, I think, I ever saw; they would be a beautiful for a present for your wife or mother, or any other lady.	
	SCOOP-SHOVEL; steel; good, and well made, a splendid tool for 75c	6 00 54 00
4	SCISSORS, Large size, English make	6 00 55 00
	Finest English steel handles and blades; 7 in. long.	
2	SILK HANDKERCHIEF, Beautiful	7 00 65 00
15	STORY OF THE BIBLE, 700 p. and 274 ill.	7 00 65 00
	Will be eagerly read by almost any child.	
16	TELEPHONE, Bliss, 200 ft. of wire	7 25 70 00
	Especially to tell when bees are swarming, see p. 532, Nov. GLEANINGS, 1881. Brass wire especially for above, 10 c. per 100 ft., or 40 lbs. per lb. of about 550 feet. By mail, 17 c. per lb. extra.	
	TOY TRUNK, "Sarotoga"	6 50 60 00
	Very pretty and useful for little girls, size 8x9x12.	
	TRUNK, very good, 11x12x24	7 00 65 00
	See 50 cent counter.	
28	UMBRELLA, good, but medium size	5 50 50 00
	For 10c extra, your name plainly printed on inside.	
52	WRENCE, Coe's pattern	6 50 60 00
	Malleable; black; 15 in. long. Extra heavy and strong.	

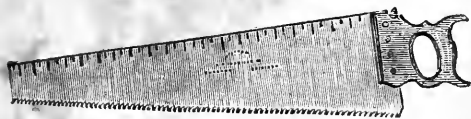
TINWARE.

42	DISH or rinsing pan, re-tinned, 19 inches across, 21 qts. (See 35c counter.)	7 00 65 00
	FLOW CAN, 10 gallons	6 00 55 00
	Holds nearly one sack of flour. It is also excellent for candied honey, as it has a stout sloping cover, and pair of strong handles to lift it by. It will hold about 100 lbs.	

ONE-DOLLAR COUNTER.

12	A B C BOOK in PAPER. For less than 10c see advertisement in GLEANINGS.	6 30 60 00
	Postpaid at \$1.0 each.	
15	Cloth bound, 25c more, each book.	
20	ARTISTS SKETCHING CAMERA, a great aid to drawing	9 00 85 00
64	BOOK-SHELF or HONEY-STAND. For description, see July JUV., page 417.	8 50 80 00
	This was primarily designed for a book-shelf, but makes a nice case for displaying honey, as it can be hung up on a stout hook or screw put in the wall.	
	CASTER, Britannia, 5 bottles, a splendid caster for a dollar	9 00 85 00
45	CLOCK, BLACK, enameled iron	9 25 90 00
	Called "Wee-wag." Almost as pretty as black marble, and a good timer.	
	GOSPEL HYMNS, all in one volume (No. 1, 2, 3, 4), words and music, board cov.	7 25 70 00
20	HACK-SAW, for sawing metals, etc.	8 50 80 00
	One dozen blades included with each; extra blades, 5c each, 50c for 10, or \$1.00 per 100.	
22	HAMMOCK, like those for 75c, but stronger and better made	8 50 75 00
10	HOW TO KEEP STORE, a valuable book of 406 pages	8 50 80 00
	For anybody who sells goods at retail.	
5	LABELS, gummed, per 1000	5 00 40 00
	At this price they are to be one color, not to exceed 1 x 2 inches in size, nor 90 words of matter, and not less than 1000.	

- Postage.] (Pr. of 10, of 100)
- 30 | MACHINE for PERFORATING (5-16 hole) separators, or other sheet metal.... | 8 50 | 90 00
See illustration in Sept. GLEANINGS, 1881.
- 3 | MORTON'S GOLD PEN in Gold-Plated Telescopic Holder..... | 8 75 | 80 00
- 20 | NIPPERS, best cast steel..... | 8 50 | 80 00
Similar to those used by blacksmiths, but finer finish.
- 10 | FILES and WIRE-SHEARS combined.... | 8 50 | 80 00
Same as on 75-cent counter, but 8 inches long, and cuts No. 9 wire.
- 7 | POSTAL CARDS, printed to order, in packages of 50 (Three for \$2.25).... | 6 00 | 55 00



- 45 | SAW, CARPENTER'S, cross-cut or rip.... | 9 00 | 85 00
With 24 in. Square and Rule, Straight Edge, and Seratch Awl, Boston's make, but stamped Jackson Gorham.
- 2 | SILK HANDKERCHIEF large and exceedingly pretty..... | 8 50 | 80 00
- 2 | SPOONS, Tea 3 oz., Solid COIN SILVER | 9 25 | 87 50
With your three initials neatly engraved thereon. In this rate, a set of 6 will cost \$5.45. If you take them without engraving, \$5.00 only.
- 1 | TUNE, very good, 12x14x28..... | 9 60 | 85 00
See 50 cent counter.
- 33 | UMBRELLA, strong and serviceable | 8 50 | 80 00
For 10c extra, Your name plainly printed on inside.

TWO-DOLLAR COUNTER.

25 | LUMINOUS CLOCK..... | 17 50 | 150 00
The dial shines in the dark, like the luminous match-safes. No need to strike a match when you go home late at night.

MISCELLANEOUS COUNTER.

FOR \$1.25.

SILVER-PLATED TEA-SPOONS, per set of 6. These are Rogers Bros' celebrated German silver spoons, plated with pure silver. If triple-plated, one-half more. Price of 10 sets, \$12.00; of 100, \$118.00. Postage per set, 8 cents.
Table spoons, just double the price of tea spoons.

FOR \$1.50.

The "FAIRY QUEEN." A Nickel Lever Clock. This is among clocks what the Waterbury is among watches. It runs in any position, and is an excellent timepiece; all are carefully tested and regulated here in our office. Requires no key, and is all cased in metal. With alarm, \$2.00. By mail, 25c extra.

FOR \$1.75.

BELL JACK-SCREW, for raising buildings. Screw 8x1 1/4; will lift 10 tons. Rises four inches, weighs 10 lbs. Large size, 1 1/2 in. double above price, and 2 1/4 in. 4 times above price. A most handy tool on the farm.

FOR \$2.50.

An extra COTTAGE STRIKING CLOCK. A nice good one in mahogany and rosewood case.

FOR \$3.00.

A NICKEL CLOCK, similar to Fairy Queen, called the "BOOM." It strikes the hours on a beautiful silver-toned bell. With a calendar attachment, \$3.50. Postage on Boom, 35 cents extra.

FOR \$3.50.

KNIVES, TABLE, TRIPLE PLATED on steel, Rogers Bros' best, for six, \$1.75. By mail, 25 cts. extra.
Rogers' Bros' best Forks, triple plated on nickel silver, to go with above, per set of 6, \$3.50. By mail, \$4.20.

FOR \$3.50. WATERBURY WATCH.

For a Christmas or New-Year's present, it is the prettiest and most useful article for a boy, man, or even for a lady, who teaches, or for any one who needs a timepiece (as they are rather small in size), of anything that can well be imagined. The cases are nickel, and wear with a luster, when carried in the pocket, surpassing even silver.

The whole is put up in a very pretty box, with a book of instruction in the care of it, and every time I look at one, I can only wonder that they can be furnished for any such sum of money. We shall have every one carefully regulated and tested before sending them out, and every one that does not please you may be sent back any time within 30 days, you paying all postage. By buying so many, I

furnish them, by the dozen, for \$33.50, by express. Not less than a whole dozen will be sold at this price; but, for accommodation, I will sell two watches for \$6.75; three for \$9.75, or five for \$15.00. After you have purchased one watch at \$3.50, for a sample, you may have the other 11, for \$30.00. A watch will be sent as a premium for 10 new subscribers to GLEANINGS in BEE CULTURE, at \$1.00 each, or a watch and GLEANINGS for \$4.00. Until the stock is exhausted, we will send a watch, series "A," for five new subscribers.

A GENUINE AMERICAN STEM-WINDING WATCH FOR ONLY \$3.50.



One of the most striking Examples of Mechanical Ingenuity of the Age.

On first winding the watch, it may need a little shaking (or twirling rather) to start the balance.

Watches can not be sent to Canada by mail, on account of duty.

If you break a glass in a Waterbury watch, mail us the rim with 30 c. in stamps, and we will send you a new one. Any other repairs made at moderate charges.

At this date, Oct. 1, 1883, we are selling our nineteenth gross from the Waterbury Factory.

FOR \$4.00.

BEE-KEEPERS' WHEELBARROW. Made all of metal, except the box, which is plain, and can be replaced by any one who can use a hammer and a saw. For cut and further description see July GLEANINGS, 1883. Price, \$4.00; 2 for \$7.75, 3 for \$11.00, or 5 for \$17.50.

FOR \$9.00.

A Seth Thomas CALENDAR CLOCK. This is 8-day, spring, strike; the dials are 8 inches in diameter, figures large and plain, and case beautifully finished in walnut and mahogany. Cut with description on application.

FOR \$10.00.

We have once more in stock, good strong 2-ounce case AMERICAN SILVER WATCH, all regulated and in running order, that I will mail to any address for the above price; and if it does not please you, you may return it within ten days and get your money. Or I will send you the watch for 35 subscribers, at \$1.00 each. You can have either hunting or open face, and such a watch, for a present, ought to make any boy (or man either) happy.

The above as well as the \$3.50 watches will regulate so as to run within 2 or 3 minutes per week; if you want greater accuracy than this, it will cost you more. Say for a watch running to a minute a week, (in the pocket) \$20.00, and for a minute a month, \$40.00.

GOODS WE SEND OUT WITHOUT CHARGE.

Cards against profanity, two kinds—one for juveniles, and one for adults; also cards with a child's prayer on it.

This price list. Envelopes addressed to ourselves.

A. I. ROOT, Medina, O.

1883

