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The bee-hive. Vol. 4, No. 9 March, 1890

Andover, CT: E.H. Cook, March, 1890

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THE

BEE-HIVE

PUBLISHED FOR AND IN THE INTEREST OF BEE-KEEPERS, BY ONE OF THEM.


VOL. 4.

ANDOVER, CONN., MARCH, 1890.

NO. 9.

NEW HAMPSHIRE NOTES.

— No. 2. —

 APRIL 12th, 1890: — Weather still continues cold. Bees are yet in the cellars; will probably remain there another week, as a general thing. Bees have wintered well in New Hampshire; the weather has been very mild and the bees were left out until very late in the fall.

Ninety-six per cent. of the bees in this country have wintered, excepting those of my own apiary. Of the 70 swarms put into my bee cellar last fall, only 16 will be taken out alive. The cause of their death is a mystery. The most of them had plenty of stores; in some of the hives there was at least 25 pounds of honey. Of course I regret the loss of the bees, but this is only an incident by the way.

I have already purchased 100 large, strong colonies in the old style hive, which will give me plenty of work the coming season.

Mrs. E. says to me: "Now Mr. E. don't you get blue over the loss of those 54 swarms of bees. Why, if you continue ten years longer in the business, as of course you will, you will probably lose 54 more swarms."

This of course gave me fresh courage, and I have gone at it harder than ever. Hammers and saws are again making their racket in the bee house, orders are coming in quite freely for supplies, and we hope for a favorable season.

One thing in favor of bee-keeping

in New Hampshire is this: honey brings 20 to 25 cents per pound, and the supply is not equal to the demand. I could easily have disposed of a ton since I sold the last of my last summer's crop. I bought all I could find in this vicinity and sold it again, but still the orders came. This at any rate is "sunshine."

AKED D. ELLINGWOOD.

Milan, N. H.

[We know how one feels to lose their bees and sympathize with you. It is likely that the warm weather of the past winter caused the loss, by making the bees uneasy in confinement. Outdoor wintering was the most successful last winter. Cellar wintering, when the proper conditions of temperature, etc. are observed, is generally the most successful. The writer of Rural Notes for the Times (Conn.), observes that beekeepers are very enthusiastic. It is well that it is so, but however discouraging it may be, the "bred in the bone" bee keeper will stick to, and is usually rewarded. Mrs. E.'s remark shows that friend E. has the right kind of "helper" to cheer him over the hard places in life's pathway.]

PROF. COOK thinks that painting hives (were it not for looks) would not pay, and that it partially stops ventilation through the wooden sides.

Indications suggest that 1890 will be a bright year for bee-keepers.

Drops of Nectar AND Frames of Pollen

CONDUCTED BY E. L. PRATT.

BRO. COOK, I don't like your pronunciation of Carniolan, I rather like it with the letter O well defined.

Why is not a double top-bar to frames a good idea to keep down brace combs? By having the top-most bar wider it would work admirably well as a slat honey-board.

There seems to be a great, grand rush for Tested Carniolan queens this season.

Our good friend Heddon is strong in defense of the principles of *his* hive and honey-board.

What if we do have queen-traps and excluders, and now a queen-restrictor. Are not the two former implements doing a good work?

Come, now, Bro. P., do you honestly believe that to the practical dollar and cents bee-keeper, any of these "traps" are necessary or even a help? I doubt it.

We are getting, now and again, a strong shot from that "Digested Nectar" bomb.

Taking every thing into consideration, we have some excellent stock of this side of the pond. The prudent apiarist is ever on the watch for improvement in his bees.

An extra hive for each colony expected to swarm is not necessary. A common cheap box, a super, or hive-body, will answer to hold the bees until the apiarian can attend to them. Some persons have got the impression that another entire outfit is necessary. Not so.

Why do we not have more female writers to our bee journals? Women

have a knack of penning brilliant thoughts not attractable by men.

"If all were gold that glitters,"

We would have a series of valuable(?) experiments that would open the eyes of the bee world. But, alas, how often are our "wonderful developments(?)" toppled into the seething river of failure.

That Mrs. Cotton who dresses in trousers is the specimen found in all such businesses as ours. The injury they work, both to themselves and their trade, will act as a line to hang them.

The first few days work in the yard makes a fellow's back ache. Don't it?

I have been often tempted to set my hives up 'on stilts, *a la* English. When I kneel down to an ordinary hive, the combs are about the right height to handle well, but one would have to wear knee-protectors were they to follow kneeling all day.

The Bee World to To Day

Interesting Paragraphs From Various Sources.

HANDLING BEES.—The Ind. Farmer says that the great dread of being stung deters many a one from the pleasure and profit of bee-keeping, and while it is impossible to avert all stings, the danger from them is very much magnified. Bees seldom sting except in defense of their rights and homes. They are not unlike the human race; at times they misconstrue intentions, yet their attacks are always traceable to a presumable cause at least. The first object then, is to study their nature. With this knowledge they may be handled with comparatively little danger of being stung. A bee filled with honey will seldom sting without great provoca-

tion. Beginners should protect their faces until they acquire confidence in themselves. Gentleness and firmness are necessary qualities in the handling of bees. Sudden jars and quick, active motions should be avoided as much as possible. By the judicious use of smoke they may be controlled with but little trouble, and while it is not necessary to resort to this under all circumstances, it is best to have the smoker ready, so that it can be used if the occasion requires it. It is the instinct of bees to fill themselves with honey when disturbed. Smoke seems to do this more effectually with less degree of angering them, than any thing else. But smoke has no effect on the bees, only as it causes them to fill with honey. This is the object of its use and it is beneficial in no other manner, unless it be simply to drive them out of the way.

Not being a bee we can not tell how it effects them, but that it will subdue the most vicious hybrids we know by repeated tests. Now if it simply made the bees "fill themselves with honey,"—which they do when ever disturbed—it would not drive the bees out of their hives, as it will when too freely used. It probably has similar effect on bees that it does on people, and most of us know from experience what that is.

A DIFFICULT QUESTION.—Why, in the event of a little difference of opinion, is the bee likely to have the best of the argument? Because, of course, it always carries its own point!—Honeysuckle. (This is a mistake; sometimes the other party carries it, and then he says it hurts. —Ed.)—British B. J.

THE BEE'S POLLEN-GATHERING APPLIANCES.—The feet of the common working bee exhibit at one and the same time, a basket, a brush, and a pair of pincers. One of these arti-

cles, indeed, is a brush of extreme fineness, the hairs of which, arranged in symmetrical rows, are only to be seen with the microscope. With this brush of fairy delicacy the bee continually brushes its velvet robe, to remove the pollen dust with which it becomes loaded, while rifling the flowers and sucking up their nectar. Another article, which is hollowed out like a spoon, receives all the gleanings which the insect carries to the hive. It is a panier for provisions. Finally, by opening them one upon another, by means of a hinge, those two pieces become a pair of pincers, which render important service in the construction of the combs, and it is with them that the bee lays hold of semi-circles of wax below its abdomen, and carries them to its mouth.—Farmer's Mag.

A "CHESTNUT."—Heating the place with the smoker, a lamp or by any other means, is the very latest remedy for stings.—Kelley in Api.

A GOOD IDEA.—Prof. Cushman, of the R. I. Ag'l Experiment Station, read a paper on "The Relation of Bees to Fruit," before the Horticultural Society of that State recently. A number of the members supposed bees injured various kinds of fruit. They were very soon convinced by the Prof. that it is not so. The cry against the bees is more from ignorance and sensational newspaper articles, than from any malicious intentions on the part of the fruit growers. When they come to realize that to the work of the bee, in fertilizing the fruit-blossoms, they owe at least one-half their crop, then will they become one of the bees' strongest friends. If some prominent bee-keeper in each State would follow Mr. Cushman's example, what an amount of good it would do in educating fruit men on this point.

OUR EXTRACTOR.

Run by Wind (?) Power. Not Reversible.

Some strong arguments are set forth in favor of wood separators. If we used them we should certainly prefer those of wood.

Our friends of the Am. B. Journal are getting so they put "Written for the American Bee Journal," under their advertisements.

Though Carniolan bees have been extensively advertised, still, if "coming events cast their shadows before," the Italians will remain the popular favorites.

A writer in the A. B. J. states that butter-tub staples are just the thing to fasten loose bottom-boards to hives tightly, by using one at each corner, and can be easily removed with a chisel.

It is a good idea while there are no surplus supers on the hives, to tilt the hives toward the south to an angle of from 30 to 45°. When the supers are put on, especially for comb honey, the hives should stand nearly level.—W. Plowman.

Mrs. (?) Lizzie Cotton is out with her circular, and will "take in" some of those bee-keepers not posted on her way of doing business. Mr. A. I. Root thinks she is "improving." No doubt practice makes perfect! Don't fool with Mrs. Cotton,—she's mostly "shoddy," you know.

The latest thing in honey extractors is one called Common-Sense. It consists of a vertical revolving post, to which a pan is attached by arms, that rise and fall according to the revolving force applied. The comb to be extracted is placed in the pan, then set a-whirling and out comes the honey.

In the Guide, a writer from Texas says that he plants Lima beans to make a shade for his bees. An earlier variety for this climate might not be a bad idea. If the soil was made pretty good, quite a crop could be raised with very little labor, besides having a nice shade during the hot months of July and August.

Probably there has never been a season before when so many "fixin's" are to be tested, as will be during the present one. There are bee-escapes, *ad infinitum*; swarm-hivers, in numberless variety; top-bars of varying thicknesses, from $\frac{3}{8}$ to 2 inches, single, double, and V-shaped: queen-restrictors, and what else we don't know.

Look out for leaky roofs on your hives! They are more disastrous and annoying to bees, than a leaky roof would be to you on your own house. A good coat of thick paint, run well into the cracks, will generally answer the purpose.—W. Plowman.

Better use tin; keep it painted and "leaky roofs" will never trouble you.

G. M. Doolittle says, in the Advance, that it takes about 3,600 bee-loads of nectar to make one pound of honey. As the newly gathered honey is evaporated about one-half by the bees, it would seem that nearly double this number are required for a pound of marketable honey. This shows how important it is to have strong colonies at the times there is plenty of nectar to gather.

Dr. Miller is quite in favor of 24-pound crates for shipping honey, and says in Am. B. J.: I use double-tier, 24-lb. crates—each tier contains 12 sections, two wooded partitions of $\frac{1}{4}$ inch stuff dividing the lower tier into three apartments, and on these two partitions rests a middle or false

bottom of $\frac{1}{4}$ inch stuff to support the upper tier, which is again divided into three parts. Thus I have practically four sections in a box, making my crates just as safe in transit as the 12-pound crates.

Notes for Beginners.

Always use fdn. in the sections.

Do not let the bees have too much drone-comb.

Do not stand in front of the entrance when the bees are flying, as it will irritate them.

Keep grass and weeds cut short around the hives, especially where the bees go out and in.

Remember that bees are not so liable to sting when they swarm; also when honey is coming in freely.

Weak colonies can now be profitably strengthened by giving them a frame of sealed brood from stronger hives.

Be careful in manipulating frames and crates not to crush bees, as the scent of a mangled bee will irritate them as nothing else does.

Do not be ashamed to wear a veil when working among the bees. It will give you confidence in yourself. If other people enjoy being stung, let them have all the fun to themselves.

Look over each colony and see if they have a queen, which can be told by the eggs and larvæ. If they have neither and are strong in numbers, give them a queen; otherwise put them with another weak colony, mixing them up well to prevent their fighting.

THE

Bee Hive

PUBLISHED MONTHLY.

E. H. COOK,
EDITOR AND PUBLISHER,
ANDOVER, CONN.

Subscription Price, 25 cents Per Year
in Advance.


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TO ADVERTISERS:

Our rates for inserting advertisements are as follows, from which no discount will be made, and are payable in advance.

One issue, per inch, 35 cts.
Two or more issues, per inch, . . . 25 cts.

Special Notices of 35 words, Four Times, only 5 cents.

 All subscriptions will be stopped when the time paid for expires (see notice of same stamped on wrapper) unless renewed before.

Several warm and pleasant days have given brood rearing a good impetus.

The bee-keeper who has not invented some thing, will soon be a curiosity.

By cutting fdn. for sections three-cornered, there is no waste, and the bees work it out straighter than if cut square.

Bro. Pratt gets in his "copy" with a promptness that is refreshing. He has been an editor, and that accounts for it, you know.

Swarm-hivers are the subject of much discussion at present; but like Horace Greely's farming, they have only been tried on paper. The practical test is yet to come.

Our bees are in fine condition, and how enticing their merry hum, as we stand at the case "setting type," on-

ly the enthusiastic bee-keeper knows! Never mind, we'll soon be out visiting them.



Say, brother beeist, don't you think 15 cents invested in a year's subscription to the BEE-HIVE would be a good investment? Try it.

By the way, friend Waldo says he has already had 25 or 30 replies to his little 25-cent advertisement. Oh, no; it doesn't pay to advertise in the BEE-HIVE, because you may get some business by it!

Friend Waldo gave us a call recently, and of course we talked bees. Friend W. uses the open-side section and thinks the bees do not bulge out the comb so much as when close-side boxes are used.

Mr. Dibbern, of the Plowman, is getting up a collection of bee escapes and thinks he may take them to the World's Fair in '92.

No hurry; that fair is in its infancy yet. Wait till the "grippe" gets hold of it, then it will follow McGinty "to the bottom of the say."

A prominent apiarist in writing us recently, pithily remarked that Mr. Heddon did himself more harm than good when he induced Rev. L. L. Langstroth to write up the Heddon hive as being a greater invention than Mr. L.'s—the Langstroth hive. Mr. H. certainly "put his foot it it," when he tried that way of advertising.

Wiring brood-combs is called a folly by some bee-keepers. To the average apiarist it is not profitable. If any one can tell us how to put up nuclei and have them go safely without wiring the combs, we should be glad to have them do so. We have

sent them singly and in crates of six and only by having wired frames was success assured.

Poor queens should be replaced by good ones, and the quicker the better.

Look over the advertisements and see the attractions offered. Don't forget to mention the BEE-HIVE when you write to any of them.

This number of the BEE-HIVE reminds us of the man who was given a dictionary to read. He said it "changed the subject pretty often."

A little pushing of the bees at this season of the year, by carefully spreading the brood and feeding, if at all short of stores, may make a large difference in the honey crop.

Keeping bees in the antiquated box-hive is rapidly becoming a thing of the past, even here in New England. The force of competition is driving the box-hive people to adopt the frame hive and one-pound sections. When people find that "chunk honey" is no longer saleable, it sets them to thinking that there may be "suthin' in them new-fangled fixins', artar all," as nothing else will.

Mr. Robinson, in Am. B. J., is strongly in favor of shipping bees by mail, and holds that postmasters ought not to receive packages of them unless properly put up. This may be good logic from Mr. R.'s point of view, but how is it from the P. M.'s perspective? When it is admitted that a queen and the few attendants sent with her are occasionally so clumsily put up by the novice as to become liberated in transit, it is a poor guarantee for pounds of bees. Mr. R.'s definition of "attendants," includes anything from half a dozen bees to a whole hive-full.

Wonder what our supply dealers at the Paris Exhibit would take for their diplomas?

It makes our back(?) ache to write so many "cute" ideas! Can't some of our readers give us a lift?

Better send in that 15 cts. at once, as next issue will be out right away, and we do not keep back numbers.

Be careful not to buy bees of any one where there is foul brood, as it will be sure death to your apiarium.

☞ If you want a dollar's worth of good garden seeds for 45 cents, send in your order at once, as the offer on page 128 will not appear again.

No, we don't want a "hundred dollar" queen. 'Twould make us real fidgety, and we shouldn't sleep restful, for fear some body would borrow her.

The Canadian Bee Journal has improved since it changed to bi-monthly, and left off the poultry attachment. Wonder bro. Mason don't take the hint. No "chickens" about the BEE-HIVE—except on last page.

Queer, isn't it? that the older and experienced bee men, like Doolittle, Manum, Clarke, Miller, and others, think that the *thickness* of top-bars makes little difference about brace-combs. Oh, say? which is proper, burr-combs or brace-combs? Where's doctor Miller?

We have three copies of "A Bird's Eye View of Bee-Keeping," by W. F. Clarke, that will be sold for 15 cts. each, regular price 25 cts. It is a pamphlet of 60 pages, giving considerable information about bees, and is in poetry. Also have two copies of "Honey as Food and Medicine," by

Newman, at 4 cts. each. All new.

§ We will send the BEE-HIVE one year and a Warranted Italian Queen for \$1. We now have the best stock of breeding bees we ever owned, and know customers cannot fail to be pleased with them. Queens will be sent about June 20th, and in rotation, so the earlier the order is sent the quicker you will receive the queen.

THREE BOOKS CHEAP.

We have three copies of Prof. A. J. Cook's Bee-keepers' Guide (latest edition), that we will sell, including a year's subscription to BEE-HIVE, at \$1.15 each. The regular price is \$1.50. Order quick.

Special Notices.

Under this heading advertisements of 35 words will be inserted **four times** for only 25 cents.

To exchange.—A B C of Bee Culture, King's Bee-keepers' Text Book, 1888 and '89 vols. of Gleanings, back Nos. Am. Bee Journal, also vol. XV. Bee-keepers' Magazine; all in No. 1 shape. Make me an offer. L. J. Waldo, Merrow, Conn.

Geo. S. Pratt, Jr., Bridgeport, Ct., will sell Italian bees in Langstroth hive, \$8; May, \$7; June, \$6. Eggs from high-class P. R., \$1 per sitting. Fantails, Jacobins, fans, owls, etc. Common pigeons taken in exchange.

Choice tested Italian queens from imported mothers, cheap. Will be sent whenever wanted. Also untested queens in season, as cheap as the cheapest. Satisfaction guaranteed. Send for circular. Simon P. Roddy, Mechanics-town, Md.

Look here! Before buying your bee-hives and one-piece sections, write for prices to O. B. Besley, apiarist, Columbia X-Roads, Bradford Co., Penn.

5-Banded golden Italian bees: very gentle, good workers, and the most beautiful bees known. Sample free. Sure to please. Prices very reasonable, considering quality of stock. S. F. & I. Tregg, Swedona, Ills.

Chenango Valley Apiary.—The largest and purest Italian Queens: known to many of my customers of years past. Tested, in May, \$2; June, \$1.50. Untested, \$1. Send for circular. Mrs. Oliver Cole, Sherburne, Chen. Co., N. Y.

Cinnamon bulblets, 8 cts. per doz.; strawberry plants, 8 cts. per doz.; choice Sugar-cane seed 10 cts. pkg.; Water-melon seed, best, 5 cts. Wm. Ebert, Denny, box 22, Butler Co., Penn.

☞ Please mention the BEE-HIVE in writing to above advertisers and you will receive prompt reply, and do us a kindness also.

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Reared from **Pure Imported Stock** by improved methods. Queens in June, \$1.00 each.

Send for Circular—Free. } **ALSO APIARIAN SUPPLIES**
OF ALL KINDS.

MY NEW BOOK on Queen-Rearing Nuclei Management, postpaid, for 10 cts.

E. L. PRATT, Pratt Bee Farm,
MARLBORO, MASS.

☞ Pure Carniolan bees should show no yellow bands. ☞ Mention Bee-Hive.

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For only 45 cts.

These Seeds are guaranteed to be Fresh and to give entire satisfaction. They are put up in boxes and sent by mail, postpaid. Each box contains one packet each of the following Seeds:—

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6. **Musk Melon**—Best Varieties Mixed.
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9. **Radish**—Best Varieties Mixed.
10. **Summer Squash**—Crookneck.
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12. **Tomato**—Best Varieties Mixed.
13. **Water-Melon**—Pride of Georgia.
14. **Winter Squash**—Hubbard.

FLOWER SEEDS.

Four Packets—Pansy, Petunia, China Pinks, Phlox—Finest Varieties Mixed; all colors.

At the low price of 45 cents, or 2½c. a packet, these Seeds are a genuine bargain. ☞ Do not confound these with store seeds, which are often venerable with age and as frequently fail to grow. WE GUARANTEE these Seeds to be FRESH and satisfactory, or money refunded.

THE BEE-HIVE one year and above Box of Seeds for only 50 cents.

E. H. COOK, Andover, Conn.

THE BEE-HIVE
FOR ALMOST NOTHING.

The following prices include the paper or book named and the **Bee-Hive** one year.

| | |
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| American Bee Journal.....w | 1.20 |
| Bee-Keepers' Advance.....m | .55 |
| " Guide.....m | .60 |
| " Review.....m | .55 |
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| Revised Langstroth.....m | 1.75 |
| Doolittle's Queen-Rearing.....s | .35 |

Address, BEE-HIVE, Andover, Conn.

THE FAMILY HERALD & STAR, Montreal, Canada, weekly, and the **BEE-HIVE**, each one year, for only 75 cts.

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INTERNATIONAL
TYPEWRITER!

A strictly first-class machine. Fully warranted. Made from very best material, by skilled workmen, and with the best tools that have ever been devised for the purpose. Warranted to do all that can be reasonably expected of the very best typewriter extant. Capable of writing 150 words per minute—or more—according to the ability of the operator.

Price - \$100.00.

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THE PARISH MFG. CO.,

Agents Wanted. **PARISH, N. Y.**

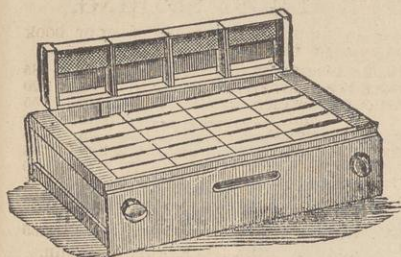
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FREE. STENOGRAPHY and TYPEWRITING FREE. First class facilities and best of teachers. Address, with stamp for return postage, **THE PARISH MFG. CO.,**
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This Cut Represents Cary's **New Clamp,**



And is the Best thing out for securing Comb Honey in the Neatest Shape. A three years' trial demonstrates this fact. They are especially adapted to Tiering-up on Simplicity and Chaff Hives, as shown below.

Can be used on Any Hive.

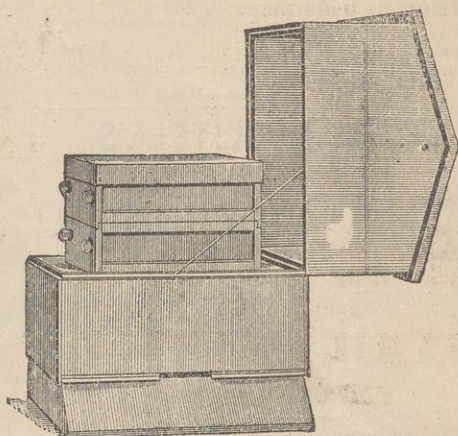
If you want to know anything further about them; also how to obtain one at just

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send for our 40-page Catalogue.

A full line of Bees, Queens, and Bee-Keepers' SUPPLIES.

Address (mentioning BEE-HIVE),



Wm. W. Cary & Co., Coleraine, Franklin Co., Mass.

THE CLARK CYCLE CO.

340 N. Charles St., - - BALTIMORE, MD.

**NEW RAPID BICYCLES.
NEW RAPID SAFETIES.
QUADRANT TRICYCLES.
QUADRANT TANDEMS.**

Two hundred second-hand machines, all kinds, sizes and prices. Bicycles, Safeties and Tricycles for Boys and Girls. Send for Catalogue and Price Lists. Mailed free. AGENTS WANTED.



Branch Store, - - - 908 Pennsylvania Ave., Washington, D. C.

The BEE-HIVE one year and a Warranted Italian Queen for \$1.00.

THE BRIGHTEST

Five-Banded, Golden Italian Bees and Queens, and the **Reddest Drones**. Very gentle; very prolific; good honey-gatherers—working on red clover—and the **Most Beautiful Bees** in existence! Took 1st premium at Mich. State Fair, in 1889. (Reference as to purity of stock, Ed. of the BEE-HIVE.) Sample of Bees, five cents. Untested Queens, before June 15th, \$1.25; after June 15th, \$1.00. Tested (3 bands), \$2.00; Selected tested (4 bands), \$3.00; **Breeding Queens** (4 to 5 bands), \$5.00. Virgin Queens, 50 cts; 5 for \$2.00.

Safe arrival and satisfaction guaranteed.

Jacob T. Timpe, Grand Ledge, Mich.

(Mention the Bee-Hive.)

How to Italianize.—A little pamphlet of 16 pages, by H. L. Jeffrey. It tells how to Italianize 100 colonies of bees with only two Italian queens, even if there are plenty of black bees in the vicinity. Price, 5 cts. Bee-Hive, Andover, Conn.

G. M. DOOLITTLE'S

— METHOD OF —

REARING QUEENS.

Without exception this is the best article on Queen-Rearing that Mr. Doolittle has written. It gives, in language so plain that all can understand, the method used by Mr. D. himself, which is a guarantee of its valuable qualities.

Dr. C. C. Miller, of Marengo, Ills., a prominent apicultural writer, says of it:

"You have done a good thing in putting in pamphlet form 'Doolittle's Method of Rearing Queens.' It is of value, and gotten up nicely."

CONTENTS:

A sketch of G. M. Doolittle, wherein his Early Love of Bees, Reading Bee-Books and Papers, Influence of the Teachings of E. Gallup, Good Queens, Writing Articles, etc., are interestingly described. Following this comes Mr. Doolittle's Method of Rearing Queens. The first subject treats on the Importance of Good Queens, showing how necessary they are if one would be successful. The Old Way of Rearing Queens is then described and its defects clearly shown, followed by the Method Now Used, and its disadvantages. Eggs and Food are then discussed. The way of arranging and fastening the Queen-Cups is then clearly described and fully illustrated. The Cell-Building Colony is next described, followed by Larvæ for Queen-Cells; Transferring the Larvæ; Advantages of this Method; Points to Remember; Natural Queen-Cells; How to Make the Nuclei; How to Cut Out the Cells, and How to put Cells in Nuclei. This is followed by pithy points gleaned from Mr. D.'s writings, as follows—Honey-Queens; Scraps; Honey-Combs, Reports.

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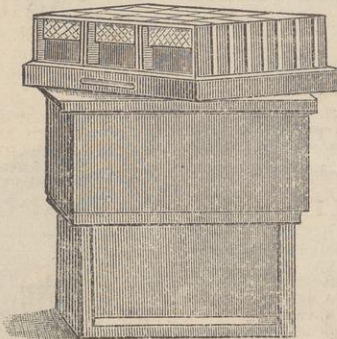
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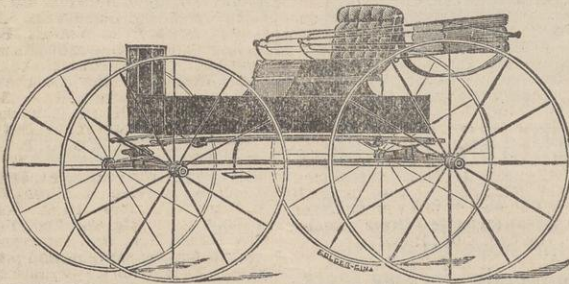
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