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"THE GREATEST POSSIBLE GOOD TO THE GREATEST POSSIBLE NUMBER."

VOL. I.

BEETON ONTARIO, MARCH 24, 1886

Nc. 52

TABLE OF CONTENTS

	PAGE
Advertisements.....	823
Apology.....	819
Hive, Heddon's new.....	821
Queen Laying Drone Eggs.....	822
Science and Apiculture.....	819

PUBLISHERS' NOTES.

We will always be glad to forward sample copies to those desiring such.

Send us the names of three subscribers with \$3 in cash and receive as a premium one C. B. J. Binder.

Send postal card for sample of leaflet, "Honey, some reasons why it should be eaten."

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We can supply Binlers for the JOURNAL at 55 cents each post-paid, with name printed on the back in Gold letters.

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Communications on any subject of interest to the Bee-keeping fraternity are always welcome, and are solicited.

Beginners will find our Query Department of much value. All questions will be answered by thoroughly practical men. Questions solicited.

When sending in anything intended for the JOURNAL do not mix it up with a business communication. Use different sheets of paper. Both may, however, be enclosed in the same envelope.

Reports from subscribers are always welcome. They assist greatly in making the JOURNAL more useful. If any particular system of management has contributed to your success, and you are willing that your neighbors should know it, tell them through the medium of the JOURNAL.

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This little pamphlet is presented to the Bee-Keeping public with the hope that it may be the means of saving infected colonies from death by fire and otherwise. No expense is required to successfully treat the disease, other than the little time required for fasting.

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FARMERS BUY THE CELEBRATED

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Four-frame nucleus, with pure Italian Queen, in April, \$4
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After 15th May, 25c. less. I would advise the four-frame nucleus as giving the best result.

Italian Queens—untested in April, each, \$1.25, per doz., \$15.
From 5th May to 1st June, each \$1.10, per doz., \$12.
After 1st June, each \$1.00, per doz., \$10. Tested, \$2.50 ea.
Selected Tested, 3.00 each, 50 cents less after June 1st.
Bees by the pound, in lots of five pounds and over, \$1.00 per pound, no queens; if queens a wanted add price of queens.
Safe arrival and satisfaction guaranteed. Discounts, 3 per cent on orders of \$50 or over; 5 per cent on orders of over \$100. Illustrated catalogues now ready. Address

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Six for \$5.00. 12 or more 75c. each.

4-Frame Nucleus, very strong prior to June 15th, \$5.00 each, later \$4.00 each. With untested queen \$1.00 less each. Bees by the pound same price as untested queens. Will also furnish all kinds of sections and hives at A. I. Root's price.

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Nappanee, Ind

NORTHSHADE APIARY AND COMB FOUNDATION WORKS.

Prices greatly reduced. 50 to 100 colonies of choice Italian bees for spring delivery. Nuclei, queens, and bees by the pound, for the season. Foundation for sale. Wax worked by the pound, or for a share. Samples of foundation free. Send for price list.

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Off all goods which may be ordered now for use next season we will give the above discount! This is to induce early orders and in case you need anything for this season, you could save 5 per cent charges and the discount by ordering ALL TOGETHER. Will be given till further notice.

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THE CANADIAN BEE JOURNAL.

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WEEKLY - - \$1.00 PER YEAR

D. A. JONES,

EDITOR.

F. H. MACPHERSON. AS'T ED'R, & BUS. M'GR.

APOLOGY.

WE really must apologise for the scant amount of reading matter in this issue. Pressure of advertisements and the index for the year occupy nearly all the space. Next week we shall not be so crowded and will make amends.

FOR THE CANADIAN BEE JOURNAL.

SCIENCE AND APICULTURE.

HERE has been considerable discussion of late in the C. B. J. on the above subject and I would not take a hand in were it not that I am called upon to do so by Mr. Cushman in the last issue of JOURNAL.

The physiological question in dispute, viz:—How is animal heat produced in the living system, though not directly connected with apiculture science is nevertheless a very important one, inasmuch as upon its true solution depends to a great extent not only the regulation of the winter stores for our bees but the regulation of our own diet which is of much more importance. "Apicultural science," did I say? Brother Pond, of Foxboro, gravely tells us in a late issue of the JOURNAL that we have no science of apiculture. He endeavors to prove this in part by averring that "we to-day are little if any in advance of the bee-keepers of the days of Virgil," and that "as a matter of fact we are all at sea in regard to wintering, and no one has any advantage over the others," that in truth, "all are alike groping in the dark." Surely our Massachusetts friend was either "nodding" (and "even Homer nods") or else slightly bilious when he was led to take such a gloomy and pessimistic view of modern bee culture! Well, we are all more or less subject to these mentally gloomy spells, when the whole universe looks dark. I don't know, of course, how it is with Mr. Pond and the rest of our bee cousins across the lake, but we "Canucks" back here in this "frozen region of howling wilderness" are certainly not "all at sea in regard to wintering," as the sea is already so well frozen over that we can glide along over it with considerable safety. Nor are we "all alike groping in the dark" over this sea of ice (slippery I admit) and liable to run at any moment into the air

holes. I have the presumption to think that a pretty considerable number of us have lanterns very well trimmed—lanterns giving out the light of apicultural knowledge, accumulated through long years of experience, patient observation, and persistent study.

That we have no science of bee culture I cannot for one moment admit. The science, it is true, is not yet, by any means, mature and what science is? Outside of mathematics all the sciences are growing towards maturity—and rapidly too under the nourishing heat and swelling light of this marvelous age. If we are to call every imperfect science no science at all, all outside of the *exact sciences* may be ruled out. Physiology, for instance, must go, and we have an illustration of this in the very matter we are now approaching, for this brings us to the subject in hand as between Prof. Cook, Mr. Cushman and others. The problem in dispute is a physiological one, and as yet an unsettled one—an open question. And here is where Prof. Cook and Mr. Cushman are both, I respectfully submit, in error. Each assumes the solution he urges to be the true one, and this presupposes on the part of each that the question in issue is definitely settled, which it is not. This method would simply issue in a balancing of authorities, and this is certainly not the scientific method. Instead of setting up a theory and then hunting up facts to fit it and authorities to sanction it the true investigator hunts up all the facts and then casts about for a generalization or theory that will fit them all. The one is *a priori*, the other *a posteriori* in its methods.

Liebig was a distinguished chemist, and in his great work, "Organic Chemistry," he propounded the theory that the animal heat of the living system is produced by the combustion in the lungs of the oxygen derived from the inspired air and the carbon derived from the food. The hypothesis soon became popular in scientific circles. It has however from time to time been challenged and controverted, especially by the Hygienic philosophers and the Hygieo-therapeutic school of physicians. Prof. Trall, the founder of, and most eminent authority in, that school very ably controverts Liebig's theory in his encyclopædia and elsewhere. That Trall was a profound thinker and original investigator is certain; but he unfortunately died before his great work "Principles of Hygienic Medication" was completed. In Medical Science he made new and valuable discoveries, solving problems which had baffled the profession for ages. His explanation of animal heat is that it results naturally from the motions of life—from the vital processes, without the necessity of a chemical stove in the lungs. In

the domain of physics proper we know that motion results in heat and why not in the domain of life—which is motion. According to Trall *good health*, or a normal play of all the functions, is the secret and explanation of the production and maintenance of a proper animal temperature. He had no patience with the chemico-physiologist who sought to turn the human system into a chemical laboratory and explain vital processes by chemical data. As bearing upon a proper estimation of Trall as an authority in physiology as against Liebig, it is only fair to state that Trall has apparently successfully refuted one or two of Liebig's other chemico-physiological positions.

Now, Prof. Cook, if I rightly understand him, holds the view taught by Trall as to the production of animal heat in the system; while Mr. Cushman holds the theory taught by Liebig. The Prof. claims "the leading physiologists of to-day" on his side, and here, I venture to submit, he is mistaken. Prof. Huxley is unquestionably the greatest biologist and physiologist and he is on the other side. Prof. Carpenter who died a few months ago, and second only to Huxley as an eminent physiologist, was also, I think, on the other side. I have not Carpenter by me at present but I think Prof. Cook will find that he was distinctly on the other side of the house. I know of no really eminent physiologist who can be quoted on Prof. Cook's side except Trall. Trall's school of medicine, the *Hygienic Therapeutic*, doubtless nearly all agree with their great teacher; while the regular Allopathic profession—that is their authorities—are almost all on the other side with Liebig, Carpenter and Huxley. The Homeopathic and Eclectic Schools of Medicine are divided on the question with a majority, perhaps, on Liebig's side. Thus it is that this problem of the production of animal heat in the living system is still if not an unsolved at least an unsettled one; and hence we must gently oppose Prof. Cook's attitude in the premises as savoring just a little of dogmatism.

When the Prof. wrote in the JOURNAL (page 722) about "a little learning being a dangerous thing," and proceeded *ex cathedra* to set aside Liebig's hypothesis and belabor Mr. Cushman I myself felt just a little in the Professor's road remembering that in my leaflet on "Honey—Some reasons why it should be eaten," I had written the following sentence, viz: "If the animal heat of the system is produced and maintained by the combustion in the blood of the oxygen of the air taken in by the lungs and certain elements of the food, as the most eminent authorities maintain, then it is absolutely certain that for six or eight months of the year in this climate there is no more wholesome or necessary food than pure honey."

Now, the use of the word "if" in the sentence above quoted really leaves the question as to the production of animal heat an open one, as it undoubtedly is, with the preponderance of authority, as there intimated, on the chemical side. I must confess, however, that twenty-five years ago when I looked into Trall's position on this question I thought him right so far as my poor judgment was capable of deciding between great authorities, and ever since, the principle has had its weight more or less in daily life in the regulation of diet, etc. Whether Trall is right or wrong on this point one thing is certain—he teaches more wholesome physiological and hygienic truth in his writings than any other with whom I am acquainted living or dead. One other thing is certain, if Liebig's theory is false it has done a great deal of harm in a quarter of a century in the influence it has had in regulating human diet, and will continue to do a great deal more until it is thoroughly refuted and abandoned. My confidence in what I would call the physiological explanation of animal heat as against the chemical remained firm until Prof. Huxley appeared in the arena. I could easily understand how the allopathic medical profession, even including the great Dr. Carpenter, would readily and naturally accept Liebig's chemical theory of animal heat for it is in close keeping with the fundamental doctrines of their school, which, however, I believe to be erroneous. And it was equally natural that Trall and his school should go to the other extreme in utterly casting out all chemistry from the *living system*, being so dead set against all "drug medication." But when Prof. Huxley comes forward, having no axes to grind either for the chemists or physiologists—without any hobby-horses to ride, but as a scientist and disinterested investigator—and endorses Liebig's theory I begin to think it may possibly be true. Time will no doubt tell. This vexed question, with many others, seeking the light, will be cleared up in due time. Meanwhile, let no one be dogmatic—not even professors—especially when they get out of their special lines. A few months ago when the "hibernation" theory was fairly on the "rampage" in the bee journals and Prof. Cook uttered his laconic dictum, "Bees do not hibernate," which had the effect of making the author of that theory quite petulant and impatient, I thought the Prof. was quite right both in manner and matter. That was in his line as an entomologist and he had a right to speak authoritatively, especially as the point was a settled one. Prof. Cook, of course, means that bees do not hibernate in the scientific sense. He admits with others of us that they frequently get into a very quiescent or semi-

torpid condition in winter quarters, but this is not hibernation in a scientific sense, and the author of that theory may as well accept the fact with complacency. In popular phraseology we may be permitted the license to say that bees "hibernate," but when we come down to the precision of language required by science the word must be dropped as applied to bees. On this question of hibernation I have not a doubt that Prof. Cook is right—in fact he has proved his position—but on the physiological problem I am equally certain he is wrong at any rate as to the authorities.

ALLEN PRINGLE.

Selby, Lennox Co., Ont., March 17, '86.

After all that has been said both pro and con about this matter, surely we will arrive at the correct conclusion sooner or later. By each one advancing his views clearly, and solely with a view of arriving at the facts of the case, irrespective of defeat or victory, many valuable scientific points may be brought out and we, novices, will be enlightened in regard to the various theories in question.

FOR THE CANADIAN BEE JOURNAL.

HEDDON'S NEW HIVE.

MR. Heddon's new hive—so called—is getting quite a boom, and perhaps deservedly so, but how as yet it can be said to be as a matter of fact, so far superior as claimed to all others, I fail to perceive, as it has yet to pass the ordeal of practical tests before its many claims can be fully substantiated. As yet I have not tested the hive (although Mr. Heddon has kindly presented me with the legal right so to do), so I cannot say a word for or against. What I propose to do in this article is to say a few words in regard to its claims to patentability. As a lawyer somewhat conversant with patent rights, and as a bee-keeper tolerably well read up in the history of improvements in hives and appliances apicultural, I have examined the claims made to the patent office, and there allowed, but viewing said claims in the light of the "state of the art" as revealed by history, I fail to find anything new or patentable. "Closed end frames" were originated years ago by the late nestor of the art, Mr. M. Quinby; fastening such frames in the hive by compression is an old device. Shallow hives have been praised and condemned for years, and tiering up of hives and section cases is certainly as old in principle as Root's simplicity hive. Invertible hives have been in use for years, and the patent on such granted to Mr. J. M. Shuck long antedates the Heddon hive. Shuck's hive is formed, too, on precisely the same plan as Heddon's, the differ-

ence being that Heddon used two sets of shallow frames, while Shuck used but one suspended from the middle of its end bars. Reversible frames have been used for years, and the idea of reversing sections in order that they might be more completely filled out was made use of as long ago to my own knowledge as the year 1867. Slatted honey boards with slats breaking joints with the top bars of frames, have been in use for years, and wide frames for sections, both with and without separators, have been both praised and condemned for many years. What is there in this hive then so new and original that a valid patent can be justly granted on its claims? Mr. H. himself admits that he claims nothing new in the various parts which form the hive, not even the wood and paint used in its construction. He does claim in some way for a combination of something in connection with what he calls an improved method of management. I do not say a word against the hive or Mr. H's methods; far from it. I am simply testing his claims by the fire of admitted facts, and in the crucible of past history. If these claims will stand the test, I am giving Mr. H. a fine advertisement gratuitously; if they will not, I am simply showing that fact, and Mr. H. himself can find no fault therewith, for he most certainly does not wish to stand on untenable ground, or succeed in putting his hive on the market by false pretenses. I trust that no one will be mean enough to make use of Mr. H's combinations to Mr. H's detriment whether a valid patent has been granted or not, for whatever there is in the hive that is Mr. H's original idea should be held to belong as sacredly to him, as should his pocket book, or any other property. I am simply criticising, or rather inquiring into the facts connected with a public matter, and only with a desire of eliciting the truth. As a patent solicitor I am always ready to admit the just claims of any to originality, and aid in securing the same by invoking the aid of the patent office; but I have yet to learn that a *valid* patent can be granted for a combination of old ideas in an old form for the purpose of producing an old result.

J. E. POND, JR.

Foxboro, Mass., Feb. 6, 1886.

Since receiving friend Pond's letter relative to the patentability of the Heddon hive, we have given the Canadian patent laws a most careful study, and we are thoroughly satisfied that in Canada the patent is unquestionably secure, and our opinion has been verified by a leading firm of patent solicitors in Toronto, and probably the best firm in Canada. There may be something in the U. S. patents received heretofore by

others that anticipate friend Heddon's ideas, but we understand that he has given the matter very close attention, and so he will be able to "stand up for his rights" in the U. S. Having bought the right of sale for Canada we are in duty bound to protect the Canadian patent. We fully agree with you, friend P., that we have a right to respect the inventions of others be they patented or unpatented, and we like the remarks of friend Root in *Gleanings* a short time since, where he says that those who steal the ideas of others without giving proper remuneration will lose more than they gain by it. Friend Heddon will please explain his position with regard to the "patent" question, as we feel sure he can. By the way, we like the remarks of Dr. C. C. Miller in *A. B. J.*

QUEEN LAYING DRONE EGGS.

GEO. SPITLER.—I think the CANADIAN BEE JOURNAL is up to the best of them. The following is my report: Fall of 1884, packed five colonies out doors, four in chaff, and one in leaves, (lost the latter), and but one came through strong, but had all stores used up, so it had to be fed. Two of the others were weak, with plenty of stores, and one (the third one) was very weak, not bees enough to cover one space between two combs. I put this last one between division boards, left in three frames, and though my highest expectations were to make a fair colony by fall I took 47½ pounds surplus from it, besides a good swarm, and 15 pounds of surplus from it, all comb honey. The other colonies were left without division boards, and though much stronger did not do as well in surplus as the weakest one. I have now ten colonies packed in chaff, and had in all 277 surplus comb honey. I had much trouble with one colony, which cast a swarm, and the queen failed to hatch. I gave it a frame of young brood and eggs. They succeeded in raising a queen, which I noticed out in due time, two days in succession. It was not able to fly, and yet I supposed perhaps it had mated, but I was doomed to disappointment. I did not molest the colony, as it appeared to be doing all right in honey-gathering until removing surplus, when to my surprise I found, what many, in reply to query in *C. B. J.*, said, they had never had a queen laying drone eggs. The worker cells were full of drones, though not solid like the worker bees. The queen was destroyed, another introduced, but the colony did not revive so it could be depended on, and it was united with a weak one. I am but a beginner in the business, and never had any thoughts of going into the bee business until my wife fell heir to a very weak colony from her father two years ago. For the last year I have spent a considerable time in informing myself by reading and experience, and from this on I hope for better success.

THE CANADIAN BEE JOURNAL.

JONES, MACPHERSON & CO.,

EDITORS AND PUBLISHERS,

BEETON, ONTARIO.

WEEKLY, \$1.00 per Year, Postpaid

BEETON, ONTARIO, MARCH 24TH, 1886

We have an able article from friend Pringle on "Spring Management" which will be inserted in next issue—when we hope to have more space at our command.

We hope our friends have not forgotten friend Viallon's premium for the greatest number of subscribers sent in before April 1st—we expect to see a large increase in our list within the next month.

Next week we will issue 6,000 extra copies of the CANADIAN BEE JOURNAL—which will be forwarded to those whom we should like to have on our list of subscribers—should present subscribers receive them they will confer a favor by handing them to some friend who is not at present on our list.

We are pained to hear that friend A. I. Root has been a heavy loser in a fire which burned down a warehouse on his premises destroying \$12,000 worth of property—the fire, it is thought, was the work of an incendiary, though how any one could have spite sufficient to make them commit such a deed to harm friend Root is almost past our comprehension—we have always found him the most honorable and upright man conscientious and christian-like in all his dealings, and we feel satisfied that the poor deluded creature who would endeavor to thus injure him, has been laboring under mistaken and fancied ideas of wrong. Friend Root announces that they will be able to fill orders almost as promptly as ever.

There seems to be some misapprehension as to how to address the different firms which are engaged in the publishing of the BEE JOURNAL and in the supply and bee business. For the better understanding of all concerned we give the following explanations:—All matters relating to the bee-business and the purchase of supplies should be addressed "The D. A. Jones Co.," and all remittances, articles for publication and all matters relating to the BEE JOURNAL and to the publishing business should be addressed "Jones, Macpherson & Co." The two concerns are entirely separate and distinct. To save postage those having business with both firms may enclose all in one letter, but have the communications on different sheets of paper, that each may go to the proper department.

CONVENTION NOTICES.

The next meeting of the Patsulgie Bee-Keepers' Association will be held at Arcadia, March 20th, 1886. M. J. Rushton, Sec., Raif Brand, Ala.

THE BEEKEEPERS' LIBRARY.

We keep in stock constantly and can send by mail post-paid the following:—

BEEKEEPERS' GUIDE OR MANUAL OF THE APIARY, by Prof. A. J. Cook. Price, in cloth, \$1.25 paper, 1.00

A. B. C. in BEE CULTURE by A. I. Root. Price, cloth, \$1.25 paper, \$1.00.

QUINBY'S NEW BEEKEEPING, by L. C. Root. Price in cloth, \$1.50.

THE HIVE AND HONEY BEE, by Rev. L. L. Langstroth. Price, in cloth, \$2.00.

HONEY, some reasons why it should be eaten, by Allen Pringle. This is in the shape of a leaflet (4 pages) for free distribution amongst prospective customers. Price, with name and address, per 1000, 3.25; per 500, \$2.00, per 250, \$1.25; per 100, 80c. With place for name and address left blank, per 1000, \$2.75; per 500, \$1.70; per 250, \$1.00; per 100, 50c.

FOUL BROOD, ITS MANAGEMENT AND CURE by D. A. Jones. Price, 11c. by mail; 10c. otherwise.

BEEKEEPERS' HANDY BOOK, by Henry Alley. Price, in cloth, \$1.50.

A. B. C. in CARP CULTURE, by A. I. Root, in paper 50c.

SUCCESS IN BEE CULTURE as practised and advised by James Heddon—price in paper cover, 50 cents.

HONEY MARKET.

BOSTON.

Honey is selling very well but prices are very low, and we are often obliged to shade our prices in order to make rates. We quote 1 lb. comb, 14 to 16 cents. 2 lb. comb, 12 to 14 cents. Extracted, 6 to 8 cents.

BLAKE & RIPLEY.

CINCINNATI, O.

Demand is extremely slow for extracted honey. Manufacturers seem to have taken a rest. There is only a fair demand for honey in glass jars and for comb honey. Prices are unchanged and nominal with occasional arrivals and a large stock on the market. We quote extracted honey at 4c. to 8c. on arrival and choice comb honey at 12c to 14c. in a jobbing way. There is a good home demand for bees wax. We pay 25c. a lbs for choice yellow.

CHAS. F. MUTH & SON.

Cincinnati,

CHICAGO.

Without any material change. White comb honey in one pound frames brings 16 cents; very fancy 17 cents. Dark is slow sale. Extracted honey 6 to 8 cents per pound. Beeswax 25 to 26 for yellow, market steady.

R. A. BURNETT.

Chicago,

DETROIT.

No change in the honey and beeswax market since I last wrote you.

M. H. HUNT.

Bell Branch, March 15th, 1886.

ADVERTISEMENTS.

THE NEW HEDDON HIVE.

We have bought out the interest of the inventor in his Canadian patent, and we are in a position to make and sell the Heddon Reversible Hive, got up in any shape to suit the purchaser—either in the flat or nailed.



The engraving gives a good idea of the hive. The brood-chamber is in two sections; also the surplus arrangement, which may be interchanged or inverted at will. The cover, bottom-board, and top and bottom of each sectional case has one-half of a regular bee-space, so that the surplus cases with the sections may be placed between the two brood chambers, or the latter may be transposed or inverted—in fact, all parts of the hive are perfectly interchangeable. The brood-frames will ALL be bored for wires.

A SAMPLE HIVE

includes the bottom board and stand; a slatted honey board; a cover; two 6-inch brood chambers, each containing 8 frames, wired; two surplus arrangements, each containing 28 one-pound sections, both with wide frames and separators, both of which can be interchanged or reversed at will. Price, nailed \$2.90; nailed and painted \$3.25. It is absolutely essential to order one nailed hive as a pattern for putting those in the flat together correctly.

HIVES READY TO NAIL.

We have arranged several different combinations in these hives, so that our customers may make a selection from the sample hive nailed without waiting for us to quote prices; in ordering ask for the number which you desire, and no mistakes will be made.

No. 1 consists of the stand, bottom-board, cover, two 6-inch brood-chambers, 16 frames with holes punched for wiring, and the slatted honey-board, price \$1.25 each.

No. 2 is the same as No. 1, with the addition of one surplus arrangement, containing 28 sections, with separator—interchangeable and reversible. Price \$1.75 each; without sections, \$1.60.

No. 3 is the same as No. 2 with the addition of another surplus arrangement, and sections, and is the same in all particulars as sample hive. Price \$2.30 each; without sections, \$2.00.

Those who wish the hives *without* the stand, or honey-boards, may make the following deductions from above prices: Stands 10 cents; honey-boards 7 cents. For extra brood chambers, with frames in flat, adds 45 cents each; and for extra supers adds 40 cents each. Separators of tin are included in these prices throughout. If separators are not desired, deduct for each super 4 cents.

DISCOUNTS IN QUANTITIES.

For 5 or more hives, 5%; 10 or more, 7½%; 25 or more, 10%; 50 or more, 15% off these prices.

THE D. A. JONES CO., (Ld).

BEETON ONT.

Bee-Hives, Honey-Boxes, Sections.

Largest Bee-Hive Factory in the World.

Write for our prices for one price sections, delivered freight and duty prepaid.

G. B. LEWIS & CO.

WATERTOWN WIS

THE MITCHELL FRAME NAILER.

Saves the cost of the machine in nailing the frames, to say nothing of the extra quality of the work obtained by using it.

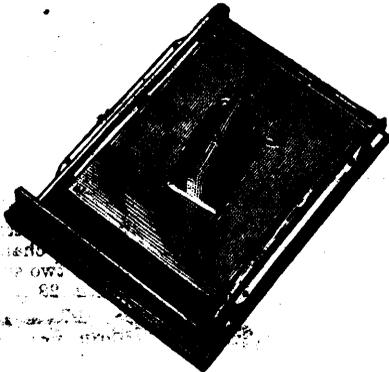


FIG. 3.

For Jones' Frame \$1.25
For Langstroth Frame \$1.50

Ready to go by express or freight
THE D. A. JONES CO., LD., BEETON, ONT

BEEES AND HONEY Y

TO ALL that are interested in Bees and Honey, send for our **Free** and Illustrated Catalogue of Apiarian Supplies. Address

M. RICHARDSON & SON,

Port Colborne, Ont

APIARIAN SUPPLIES

MANUFACTURED BY

W. T. Falconer - Jamestown, N. Y.

Are unsurpassed for **Quantity** and fine **Workmanship**. A specialty made of all styles of the **"Simplicity Hive"** including the **Van Densen-Vells**. The **"FALCONER CHAFF HIVE"**, with movable upper story, continues to receive the highest recommendations as regards its superior advantages for **wintering** and handling bees at all seasons.

DOVE-TAILED SECTION.

same price as one-piece. Also manufacturer of **VAN-DREVOORT FOUNDATION**. Dealer in a full line of **Bee-Keepers' Supplies**. Send for Illustrated Catalogue for **1906**, Free. Prices always reasonable. Mention this paper.

GIVEN FOUNDATION PRESS

The Given Press is the only perfect machine in the Market for making wired frames of Foundations, while our customers claim its superiority for Sections. James Heddon, George Grim, Oatman Bros. and others affirm its superiority. For Circulars and Samples. Address

J. R. Caldwell & Co.,
Hoopston, Ill. U. S. A

ONE MOMENT PLEASE

Send for my Circular. It tells you about my **NOTED** strain of **Red Clover Bees**, also other valuable information. I challenge the world on fine bees and queens. Also have on hand, and breed fine English Rabbits.

F. BOONHWEB, Gallupville, N. Y.

Beeton Printing & Publishing Co.,

FINE BOOK, JOB, & LABEL PRINTING.

Send for our **FREE "Honey Label"** circular. Printing furnished promptly, and neatly done. Estimates of "circular" and other work on application.

F. H. MACPHERSON,
3-1-1. Manager, Beeton, Ont

FRIENDS If you are in any way interested in **BEEES AND HONEY.**

We will with pleasure send you a sample copy of our **SEMI-MONTHLY GLEANINGS IN BEE CULTURE**, with descriptive price-list of the latest improvements in **HIVES, HONEY EXTRACTORS, COMB FOUNDATION, SECTION HONEY BOXES**, all books and journals, and everything pertaining to Bee Culture. Nothing Patented. Simply send your address on a postal card, written plainly **A. I. ROOT, Medina Ohio**

FARNES' FOOT-POWER MACHINERY.



Read what **J. I. PARENT**, of **CHARLETON, N. Y.** says—We cut with one of your **Combined Machines**, last winter, **50 chaff hives** with **7-inch cap, 130 honey-racks, 500 broad frames, 2000 honey boxes**, and a great deal of other work. This winter we have double the amount of bee-hives etc., to make and we expect to do it with this Saw. It will do all you say it will. Catalogue and Price-list Free. Address, **W. F. & JOHN**

BARNES, No 472 Ruby St., Rockford, Ill.



THE ITALIAN APIARY.

M. B. HOLMES, Delta, Ont.

IMPORTER OF AND DEALER IN

ITALIAN BEES AND QUEENS.

The best of Italy's choicest queens their mothers. Not one disappointed customer in 1883, 1884, and 1885. Price, untested, \$1.50; Tested, \$2.00; Selected tested, \$3.00. Colony in Jones' Hive, \$9.00.

Agent for all kinds of Apian Supplies.



DADANTS FOUNDATION

As attested by hundreds of the most practical and disinterested bee-keepers to be the cleanest, brightest, quickest accepted by bees, least apt to sag, most regular in color evenness and neatness, of any that is made. It is kept for sale by Messrs.

- T. G. NEWMAN & SON, Chicago, Ill.,
- C. F. MUTH, Cincinnati, O.,
- JAMES HEDDON, Dowagiac, Mich.,
- F. L. DOUGHERTY, Indianapolis, Ind.,
- CHAS. H. GREEN, Berlin, Wis.,
- CHAS. HERTEL, Jr., Freeburg, Ill.,
- E. L. ARMSTRONG, Jerseyville, Ill.,
- ARTHUR TODD, Germantown, Philadelphia
- E. KRETCHMER, Coburg, Iowa,
- E. F. SMITH, Smyrna, N. Y.,
- C. F. DALE, Mortonsville, Ky.,
- EZRA BAER, Dixon, Lee Co., Ill.,
- CLARK, JOHNSON & SON, Covington, Ky.
- J. B. MASON & SONS, Mechanic Falls, Me.
- J. A. HUMASON, Vienna, O.
- C. A. GRAVES, Birmingham, O.

and numbers of other dealers. Write for SAMPLES FREE and Price List of Supplies, accompanied with

150 COMPLIMENTARY

and UNSOLICITED TESTIMONIALS from as many bee-keepers as will send every inch of our Foundation equal to sample in every respect.

CHAS. DADANT & SON,
HAMILTON Hancock Co., Ill.

1886. ITALIAN QUEENS. 1886.

Six Warranted Queens for \$5. Send for circulars. No circulars sent unless called for.

J. T. WILSON,
Nicholasville, Ky.

BEESWAX WANTED.

Will pay the highest market price for any quantity of pure wax. Comb foundation for sale to suit any frame or section. Wax worked on shares or for cash. All freight to Campbellville station, C. P. R. If by mail to BNER PICKET

Nasagaweya P. O., Ont.
Also agent for D. A. Jones' supplies.

BEE-KEEPER'S GUIDE.

OR MANUAL OF THE APIARY.

11,000 SOLD SINCE 1876.

The twelfth thousand just out, 10th thousand sold in just four months. 2,000 sold the past year. More than 50 pages and more than 50 costly illustrations were added in the 8th edition. It has been thoroughly revised and contains the very latest in respect to Bee-Keeping.

Price by mail, \$1.25. Liberal discount made to Dealers and to Clubs.

A. J. Cook, Author and Publisher
State Agricultural College Lansing, Mich

THE NEW ONE-PIECE SECTION.

Though these sections cost more to make than the old style, still we are supplying them at the same price. We keep in stock 3 1/2 x 4 1/2 (ours), and 4 1/2 x 4 1/2 (Langstroth), and can make any other sizes to order on short notice. Prices:

Per 1,000.....	\$ 6 00
" 5,000.....	27 50
" 10,000.....	50 00

Sample sections sent on application.

THE D. A. JONES CO., LD.,

Beeton, Ont.

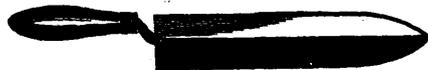
VANDERVORT

Comb Foundation Mills.

Send for samples and reduced price list.
DNO. VANDERVORT, Laceyville, Pa.

HONEY KNIVES.

We have just to hand a large shipment of honey knives from the makers, Lockwood Bros. Sheffield, England. These are undoubtedly the finest we have had made yet, being the most perfect in shape and neatness of manufacture.



These Knives are made of the Finest Razor Steel

- Ebony Polished Handle, mirror polish \$1 50
- Ebony Polished Handle, glazed polish..... 1 25
- Wood Polished Handle, glazed polish..... 1 00

If by mail, add 18c extra for, each knife.
THE D. A. JONES CO., LD., Beeton, Ont.

THE INVERTIBLE HIVE.

INVERTIBLE FRAMES,

Invertible Surplus Honey uses.

- Entrance Feeders, Top & Bottom Feeders,
- Hive-Lifting Device, Honey Extractors,
- Wax Extractors, Comb Foundation, etc.

My new Illustrated Catalogue is now ready, and will be mailed to all who apply for it. Address

J. M. SHUCK,
DES MOINES, IOWA

EARLY ITALIAN

Queens From The South.

In April, \$1.25 each; \$13.00 per dozen.
 In May, \$1.15 each; \$12.00 per dozen.
 In June, \$1.00 each; \$10.00 per dozen.
 Tested, \$2.50.

Safe arrival and satisfaction guaranteed. Special rates to dealers.

W. J. ELLISON,
 STATEBURG, SUMTER CO., S. C.

MUTH'S HONEY EXTRACTOR

Is second to none in the market. Square Gears, Honey Jars, Tin Buckets, Langstroth Bee Hives, one-piece Sections, etc., etc.

Circulars mailed on application. Send ten cents for 'Practical Hints to Bee-Keepers.' Address

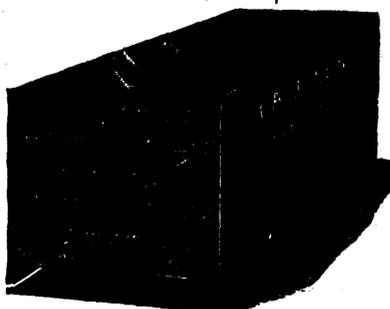
CHAS. F. MUTH & SON.
 976 and 978 Central Avenue, Cincinnati, O.

Queen Bees and Nuclei

Italian and Albino Queens bred from Northern mothers, equal to any in the United States, being hardy and superior honey gatherers, as my surplus is stored largely from red clover. Three frame Nuclei a specialty. Vandusen and Given Foundation. Extra nice dovetailed white poplar sections. Also one Apiary of 75 colonies of bees. Prices reasonable. Satisfaction and safe arrival guaranteed. Cash with order. Reference, Schenectady Bank.

A. E. WOODWARD,
 GROOMS CORNERS, SARATOGA CO., NEW YORK.

WINTER FEEDERS.



These are for feeding in winter, or at any other time when the weather is too cold to admit of feeding liquids

DICTIONS FOR MAKING THE CANDY.

Great Reduction in Prices.

Our beautiful all-in-one-piece sections, smooth inside and out, at \$4.00 per 1,000. For larger lots, write for price. Send for price list of other supplies.

M. H. HUNT,
 BELL BRANCH, WAYNE CO., MICH., near Detroit.

Take pure pulverized, or granulated sugar—the former preferred—and stir it into honey, nicely warmed up, until the honey will not contain further additions. Allow it to stand in the dish until both are thoroughly mixed through each other, then place in feeders and set them on top of the frames, packing all around nicely to allow no heat to escape

Each, made up	30
Per 10, "	2 75
Each, in flat	20
Per 10 "	1 75

We have a full stock on hand ready to go by return express or freight. THE D. A. JONES CO., LD., Beeton

QUEENS, 1886. QUEENS.

Rearred from Imported Mothers. Two, three and four frame Nuclei. Send for price list. Address

FRANK A. EATON,
 Bluffton, Ohio.

EARLY ITALIAN QUEENS

Nuclei and Full Colonies.

Fine stocks of Imported Queens on hand. Send for Illustrated Catalogue of Bees and Supplies. Address,

J. P. H. BROWN,
 Augusta, Georgia, U.S.

KENWARD HALL APIARY.

We have 100 queens ready for mailing March and April and hope to meet all demands—later—by return mail. All queens are from imported mothers, imported by us, and selected for gentleness, prolific and honey gathering qualities. Price \$1.00; dozen, \$10.00; tested, \$2.00. Dealers, have special rates.

J. W. K. SHAW, & Co.,
 Loreauville, Iberia Parish, La.

WANTED!

A position as Manager or Assistant by an experienced Apiarist. Best of references.

Direct, APIARIST, care of D. A. Jones, Beeton.

SAVE MONEY

By Making Your Own Foundation.

FOUNDATION MILLS.

Through arrangements made with Manufacturers I am enabled to offer Canadian customers the following makes of mills at prices much lower than they can be ordered singly and but little above makers list prices.

VANDERVORT,
 ROOT, GIVEN,
 PELHAM, OLM.

Duty free and freight or c. charges to be paid from my station. Don't fail to write me before purchasing, stating kind and size of mill wanted. ORDER EARLY. Circulars and samples free.

Frank W. Jones,
 Bedford, Quebec.

FOUR REASONS WHY YOU SHOULD PATRONIZE

C. M. Goodspeed

CIRCULARS FREE.

Low PRICES.—Everything is guaranteed first quality—PROMPTNESS—and last but not least RELIABILITY.

If you want Bees, Queens, Hives in flat, Sections (1 lb.) Bee Books or Papers (any two American Bee Papers to one address for \$1.70), B. Leghorn fowls, (eggs for hatching, 50 cts. for 13), Alsike Clover, seed clean \$7.00 per bushel, raspberry and strawberry plants, basswood sprouts, etc. Drop me postal stating what you want.

Remember I am agent for all the Leading Newspapers of the country; price list of 350 on application. You can save money by ordering of us. Ample reference given.

C. M. GOODSPEED,
 Thorn Hill, Onon. Co., N.Y.

WE CLUB

Price Both. Club.

THE CANADIAN BEE JOURNAL and.....		
Cook's Manual (cloth).....	\$2 25	\$2 00
A B C in Bee Culture (cloth).....	2 25	2 00
Quinby's New Bee-Keeping (cloth).....	2 50	2 25
Alley's Handy Book (cloth).....	2 50	2 25
Langstroth on the HoneyBee (clh).....	3 00	2 75
Heddon's Success in Bee Culture....	1 50	1 40

180 ACRES SELECTED,

High, gray hummock and pine lands, not subject to overflow, situated on the

GULF COAST RIDGE,

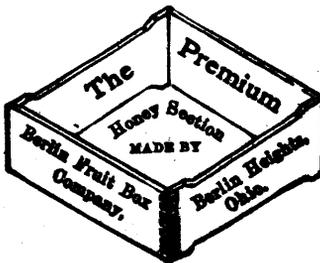
In Tropical Florida, 81° 50 m longitude west of Gr., and 26° 35 north latitude. 16 miles south of Fort Meyers, 24 miles distant from Ostego Bay, crossed in its whole length by the lovely Estero Creek, for the culture of Oranges, lemons, limes, pineapple datepalm, coconuts and winter vegetables, etc. Climate grand and delightful, water good and healthy, health unsurpassed. In 5 acre lots, \$12.50 per acre. The whole, a 140 acre tract, at \$10.00 per acre. 100 to 270 colonies of Italian bees can be had if wanted. Apply to

G. DAMKÖHLER,
Punta Rassa P. O., Monroe Co., Florida.

50000 lbs of Bees For Sale.

Containing Queens raised from choice mothers. They are on straight selected frames, most of which are wired. The queen can occupy them nearly to the top bar. Prices as follows: One colony of bees on eight Jones' frames for delivery in May, \$9.00. Hives or boxes for shipping extra as follows: Box, suitable for shipping, 50c. [can be returned if desired]; a hive to hold 10 or 12 frames, \$1, or \$3 for my special storey and a half hive, 28 inches long inside, with one inch chaff space at the sides, contains 2 division boards, and has a special feeder whereby you can feed without removing cover or disturbing cushion. It is made of first-class material and well painted. With this hive the honey can remain until well ripened, as you can extract 50 lbs at one time.

G. A. DEADMAN,
Druggist, etc., Brussels.



If you want to use the best one-piece sections made, try ours. They have taken 1st premium wherever exhibited, and all who use them once want no other. H. R. Boardman, of



East Townsend, O., who used 10,000 of them last season, says: "In trying them I folded 1000 without breaking a piece. Send for our price list of Apiarian Supplies and

Berry Packages. Address as above.

NORWAY SPRUCE.

Something for every Bee-Keeper. Shelter your Apiary. Large quantities at low prices. Send for price list.

A. GILCHRIST,
GUELPH P. O., ONT.

BEE-HIVES, SECTIONS,

Foundation & Apiarian Supplies.

Having a large stock of sections on hand we will fill orders in March at the following prices:

4 1/2 x 4 1/2, in lots of 500 to 4,000, per 1,000,	\$5.00
" " " " " " " "	4.75
" " " " " " " "	4.50
" " " " " " " "	4.50

4 1/2 x 4 1/2, at same prices. All V-grooved.

Our Section-Cases and Shipping-Crates are as good as any in the market, and at correspondingly low prices. For description and prices of the SUCCESS HIVE, send for Price-List. Estimates given on all other hives.

QUEENS AND BEES FOR 1886.

We make a specialty of rearing the ALBINO QUEENS AND BEES. Price-List free. S. VALENTINE & SON Hagerstown, Md.

SECTIONS!

SECTIONS!

Bake's All-in-One-Piece!!

4 1/2 x 4 1/2 x 2—to 1 3/8.....\$3.00 PER 1,000.
5 1/2 x 5 1/2 x 2—to 1 3/8.....\$4.00 PER 1,000.

SPECIAL FREIGHT RATES GUARANTEED.

New Firm.

New Factory

New Machinery.

Samples and Price List, with unsolicited Testimonials, sent on receipt of five cent stamp to pay postage.

"Sections received. As far as material and workmanship is concerned they cannot be excelled. Send me 10,000.

"R. STEELE,
Marietta, Ohio.

"We would like the exclusive agency of the whole Northwest Territory. Send us 10,000 at once.

"HAVE & SON,
Council Bluffs, Iowa.

Address,

LAKE BROS. & CO.,
CATONSVILLE, MD.

Lock Box, 17.

Italian Bees and Queens.

Full Colonies, Nuclei and Queens, sent on short notice.

A. NEEDHAM
Sorrento, Orange Co., Fla.

ASSISTANT WANTED.

Capable young man in apiary for season. Give experience, wages, etc.

DR. THOM, Streetsville, Ont.

Bee - Breeding Establishment of

F. J. DOKOUPIL,

Vigaun, Upper Carniola, Austria, Europe.

Queens sent free of charge. Safe arrival and purity of separate races guaranteed.

Price of each in Marks, German Money.

	April	May	June	July	Aug.	Sep	Autumn
Carniolan Original Queen	8	7	6	5	5	4	4
Italian Original Queen.....	9	9	8	7	7	6	6
Cyprian or Syrian Original Queen.....	20	20	20	20	18	18	18
Cyprian - Syrian Queens, bred in Carniola.....	12	12	11	11	10	10	10

WHAT EVERYBODY WANTS.

—THE—

CHAMPION EGG TESTER.

PRICE, 50 CENTS.



Use it at home, everywhere. Take it with you in your pocket when buying eggs. Save money and trade. Bad ones are seen at a glance. For incubating purposes they are far superior to anything out-durable, nice form, and will last a long time.

THE CHICK'S HEART can be seen beating through the shell in three days, and dead ones are plainly noticeable. After eggs have been under a hen or incubator for five days, the unfertile ones should be removed. This can be done by using an Egg Tester.

We will send one of these Egg Testers free to every person sending us \$1.25, the price of one year's subscription to the 'POULTRY MONTHLY,' the best magazine of its kind. If you have already paid your subscription, induce one of your neighbors to subscribe, mail us the amount (\$1.25) and we will send you the Egg Tester free of charge for your trouble. Send for Price List of Poultry Supplies. Address:

THE 'POULTRY MONTHLY,'
P. O. Box 215, Toronto, Canada.

1884 - TAR-HEEL APIARIES - 1886. -
1 - ABBOTT L. SWINSON, 71 - 86.

No. Co. Queens, PROPRIETOR, No. Co. Queens
All warranted Goldsboro Wayne American Albino
Purely mated.) Co., N. C.) Italians, Syrians and Carniolans.

Price list of warranted American Albino Italian, Syrian and Carniolan Queens:

	For the Year 1886	April	May	June	July & on
Untested laying, each...	\$1 50	1 00	1 00	1 00	1 00
Untested laying, 1/2 doz...	8 00	6 00	5 25	5 00	5 00
Fine Tested Q's each...	3 00	2 50	2 25	2 00	2 00
Fine Tested Q's 1/2 doz...	15 00	13 50	12 50	11 00	11 00

My AMERICAN ALBINO ITALIANS, all show 3 yellow bands and many the 4th and 5th, with an equal No. of white silvery bands of the same, these are my specialty for 1886. Syrians and Carniolans are bred from imported mothers of Mr. F. Benton. The Syrian was specially selected to order, for producing the gentlest and whitest banded bees to be found in Syria. Nuclei—Add 75 cents for each L. frame of Bees and brood to price of queen. Bees by pound, same price each month as untested queens. Pelham foundation 45c. and 55c. a pound. Untested queens by April 15th. Circular free.

NOW THEN ORDER.

Having determined to devote my time exclusively to the production of

PURE ITALIAN BEES & QUEENS

the coming season, I am enabled to offer the following prices:

- Tested Italian Queens.....\$1 00
- Bees per lb. 1 00
- One Frame Nuclei with Tested Queen, 1/2 lb. Bees and 1 Frame Brood..... 2 00
- 2 Frame Nuclei, 1 lb. Bees & Tested Queen 3 00
- 3 " " 1 1/2 " " " " 4 00
- 4 " " 2 " " " " 5 00
- 1 Tested Queen and 1 lb. Bees..... 2 00
- 50 choice Colonies for Queen rearing for \$10 each.

See what last season's customers say:

PENETANGUISHENE, CANADA.

Queen received all right. She is a noble looking queen and pleases me better than any I have yet received.

HARVEY L. LEACH.

The queens are both giving satisfaction.

R. M. TAYLOR,

Port Dover, Can.

Those two queens I got from you are giving excellent satisfaction.

JNO. G. KNIDENGER,

Kilmanagh, Mich.

I am very much pleased with the tested queen I got from you last summer.

J. S. SHELLEY,

Sodus Point, N. Y.

and hundreds of others.

I will commence mailing soon after May 1st, and of course first orders are first filled, so order now. Terms cash with order. Safe arrival, and satisfaction guaranteed in every case. Sample of live workers free by mail.

THOS. HORN.

Box 1691, Sherburne, N. Y.

ESTABLISHED 1855.

BEE SWAX HEADQUARTERS.

We have constantly on hand a large stock of Domestic and Imported Bees-wax in original shape, which we offer to manufacturers of Comb Foundation at lowest prices. We guarantee all our beeswax absolutely pure. Write to us for prices. Address,

E. BOKERMANN & WILL,
Beeswax Bleachers and Refiners. **Syracuse, N. Y.**

THE YUCCA BRUSH!!

BY MAIL SIX CENTS EACH.

I also manufacture a first-class article of Comb Foundation, and keep in Stock Sections, Honey Knives, Cans, Smokers, etc. Write for particulars.

W. W. BLISS,
Duarte, Cal.

J. P. Connell,

HILLSBORO, HILL CO., TEXAS.,

Makes a specialty of rearing Pure Italian Queens and of Shipping Bees in two, three, and four frame nuclei. My queens will be bred from the best imported mothers. Tested Queens, in March and April, \$2.50; after, \$2.00. Untested Queens, in April, \$1.25; after, \$1. Safe arrival and satisfaction guaranteed. **Send for circulars.**

ITALIAN BEES IN IOWA.

60 cents to \$1 per lb. Queens 30 cents to \$2.50. Nuclei and full colonies. Order from my new circular.

OLIVER FOSTER,
Mt. Vernon, Linn Co., Iowa.

EASTERN BEE HIVE FACTORY,

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INDEX.

<p>A</p> <p>Address, President's..... 473</p> <p>A Florida Letter..... 423</p> <p>A Flaw in the indictment. 620</p> <p>Afterswarms, to prevent, ..</p> <p>.....484, 516, 583</p> <p>.....276, 775</p> <p>Alausocolatus, <i>Linn</i>..... 295</p> <p>Ants in Packing..... 250</p> <p>" King Birds..... 235</p> <p>An official organ..... 440</p> <p>Apiary, How I located my. 584</p> <p>Report of season... 524</p> <p>Apiculture.....91, 106</p> <p>and Science.....</p> <p>.....722, 788, 790, 804, 819</p> <p>Apiculture, Commercially. 539</p> <p>Apicultural patents..... 678</p> <p>Australia honey resources 435</p>	<p>lore. 109, 203, 446, 461, 511</p> <p>notes for December... 574</p> <p>October..... 426</p> <p>from Virginia... 360</p> <p>plants..... 621</p> <p>Poison, my experience</p> <p>with..... 362</p> <p>Products, uses of..... 317</p> <p>space..... 429</p> <p>space above frames... 170</p> <p>stings..... 442, 494, 582</p> <p>Bee-keepers at fairs..... 221</p> <p>crisis..... 196</p> <p>in trouble... 285</p> <p>Home, A..... 340</p> <p>Organ..... 472</p> <p>Organization of 525</p> <p>progressive... 68</p> <p>Bee-keeping and bees... 543</p> <p>A science, Is.. 581</p> <p>a business. 622, 685</p> <p>adapted to min-</p> <p>isters..... 213</p> <p>A pioneer in... 135</p> <p>Financial as-</p> <p>pect of.. 444, 806</p> <p>My experience</p> <p>in..... 729, 804</p> <p>past and present 535</p> <p>with farming.. 42</p> <p>in Cuba... 101, 188</p> <p>Florida..... 166</p> <p>Manitoba... 406</p> <p>Muskoka. 36, 168</p> <p>Tunis..... 74</p> <p>Bees and sheep..... 221, 601</p> <p>and strawberries... 365</p> <p>and their management 199</p> <p>by the pound.. 98, 234, 628</p> <p>by weight..... 67</p> <p>can they be killed.... 25</p>	<p>commit trespass..... 278</p> <p>confining the queen... 259</p> <p>Changing from one</p> <p>stand to another.... 489</p> <p>culture in Egypt..... 780</p> <p>Changing location of.. 781</p> <p>Different races of.... 777</p> <p>Does it pay to keep... 740</p> <p>Eat anything but liquid</p> <p>food, Do..... 264</p> <p>Facts about..... 389</p> <p>Fly, How far do..... 523</p> <p>Flying in winter..... 780</p> <p>General usefulness of.. 601</p> <p>Hear, can. 309, 422, 436, 453</p> <p>Heddon strair..... 700</p> <p>How to get into sections 771</p> <p>Holy Lands and Syr-</p> <p>ians..... 556</p> <p>In excellent condition.. 135</p> <p>in partnership..... 331</p> <p>in root house..... 542</p> <p>in India..... 406</p> <p>Introducing with chlor-</p> <p>oform..... 390</p> <p>in Northern Canada.. 536</p> <p>in winter quarters. 600, 700</p> <p>living on their stores.. 419</p> <p>Langstroth on..... 285</p> <p>Moving..... 138, 285</p> <p>to clamp..... 444</p> <p>from clamp to</p> <p>cellar..... 716.</p> <p>Native..... 216</p> <p>not gathering honey.. 762</p> <p>on cotton bloom..... 383</p> <p>on shares..... 121, 283</p> <p>Palestines or Holy</p> <p>Lands..... 453</p> <p>Providing pasturage for 597</p>
<p>B</p> <p>Balmy Florida..... 263</p> <p>Basswood..... 259, 276</p> <p>bloom..... 409, 428</p> <p>Three kinds of... 283</p> <p>planting..... 331</p> <p>Bee guards..... 347</p> <p>Bee hive, protection for... 791</p> <p>Bee house..... 185, 293, 579</p> <p>How to build... 245</p> <p>or cave..... 509</p> <p>Bee, A bumble..... 341</p> <p>An old..... 249</p> <p>convention in Syria... 310</p> <p>diarrhoea..... 280</p> <p>" its causes and</p> <p>prevention. 326</p> <p>hunting in Australia.. 489</p>		

G

Good Feelings must rule us 11
 Good Sisters, The..... 292
 Greeting..... 2
 Grievances..... 430

H

Heavy rains and cold weather..... 307
 Hedges, For Windbreak... 330
 Hercules, Club tree..... 452, 492, 509, 536
 Hibernation, Mr. Clarke... 552
 Mr. Pringle... 522
 Theory..... 221, 237, 277
 Hives and covers..... 330
 and hearing..... 340
 Cedar for..... 121
 Chaff..... 234
 Chaff or single walled distance from ground 758
 Frames crosswise in Heddon's new... 748, 803
 Height from ground. 102
 Hilton..... 407
 Honey and..... 122, 138
 Ice in..... 138
 in cellar..... 536
 Next season's..... 462
 Stands..... 779
 Two storey..... 440
 too near the ground. 805
 Which way face..... 220
 Holy Lands ahead in Cuba 9
 Honey adulterated, 66, 694, 746
 and increase..... 313
 and sugar mixed for wintering..... 716
 boards perforated... 762
 buckwheat for winter stores..... 605
 Crop..... 487
 Composition of..... 644
 Care of for market... 618
 Canadian in England 661
 Comb, or extracted..... 22, 747, 772
 extracted..... 341
 working..... 443
 best results..... 573, 617
 failure in Kansas... 347
 for colds and sore throats..... 462
 Great finds of..... 487
 Hamilton show..... 468
 harvest in Kansas... 584
 judging..... 603, 681
 knives..... 205
 lots of and a good season..... 478
 liquifying granulated market, Development of..... 680
 our 743, 756, 789, 807
 More heating than sugar..... 570
 or sugar..... 692

outlook..... 494
 Pouring in..... 237
 producer's meeting.. 627
 production with deep frames..... 115
 Reasons for eating.. 398
 ripening..... 250, 716
 season in N. Iowa... 502
 selling..... 467
 shipping in bulk... 302
 small crop..... 572
 Ten feet of solid... 312
 vs, sugar as feed. 692, 774
 Honey dew..... 75
 No..... 509
 Honey plants, Collecting &..... 163, 180, 792
 Naming..... 205
 tares as..... 297
 Humbuggery in patent rights..... 638

I

Injuring the market..... 430
 Increase by Division..... 519
 "I" rise to explain..... 478
 Indian and Colonial Exhibition..... 467, 478
 Interesting Items..... 537
 In Memoriam, W. M. Cary 564
 Introducing Virgin Queens 265
 Incidents in connection with Bee Culture... 312
 Iowa's short crop..... 428
 Italianizing..... 253

K

Kind words, 428, 430, 462, 495..... 510, 544, 621, 686, 761
 King Birds, eat worker bees, Do..... 682, 729

L

Labels..... 44
 for glass bottles 254, 301
 Late Summer Hints..... 394
 Light Colonies, Feeding... 371
 London Exhibition..... 349
 London B and Honey Show 427
 Location, Best..... 88, 437
 Locality, Hard to beat... 477
 Losses around Trenton... 232

M

Market, Honey..... 158
 How to develop a Home..... 108
 Marketing Honey..... 52
 Man toulin Honey Resources 248
 Membership Fee N.A.B.K.A 525
 Mice, Destroying..... 417
 " in Bee-House and Cellar..... 762
 Mucilage, 5c. a half gallon. 462
 Mortality amongst Bees... 50
 Cause of..... 103
 The great..... 151

My Reference Book..... 438

N

National Bee-keeper's Union 613
 Natural stores, A disciple of 356
 Notes from Wills Apiary..... 246, 294, 391, 711
 " for November..... 585
 " of warning..... 740
 Napanee County Fair.... 493
 Nabalus Albus..... 535
 Nuclei..... 421
 " swarming out.... 219

O

Obituary..... 295
 " Rev. R H. Peel... 238
 Odds and Ends..... 531
 Ontario Bee-keepers. 387, 405
 Organization..... 473, 518, 568
 Organ, That..... 499
 " O. B. K. A..... 510, 534
 Our Richardson yard.... 446
 " own correspondent "rises and explains" 547
 Over production..... 536
 Over stocking..... 621

P

Packing, Keep dry..... 286
 Outside..... 525
 Sawdust dry. 461, 730
 Paper hives, metal frames, 285
 Paste for tins..... 285
 Perforated metal. 44, 199, 281
 Plants..... 380
 Pollen..... 121
 A superabundance of 572
 removing old..... 218
 theory..... 69, 180, 651
 Potato culture, A. B. C.... 93
 Premiums awarded..... 408
 Prices in England..... 189
 Prophecy..... 558
 Put up a sign..... 295

Q

Queen rearing..... 393, 675
 Average life of..... 345
 Introducing unfertilized..... 436
 Introducing a virgin 357
 not going out with swarm..... 347
 Feeding, when caged 716
 laying drone eggs... 822
 New way of Introducing..... 761
 Nursery, How to use..... 282, 397, 622
 on her wedding trip. 452
 Cage, Benton's..... 477
 and half-pound bees..... 666, 697
 Queens..... 276, 317
 Queens, and drone, layers, difference..... 538, 555
 and fertile workers.. 894

Building..... 204
 Balling..... 716
 Caged..... 90
 Clipping..... 397
 Chloroforming..... 763
 Caging alone..... 282
 Clipped..... 421
 dying prematurely... 556
 from Benton..... 221
 Fertilizing..... 716
 from drone eggs... 259
 Introducing.....
 249, 265, 324, 532
 How reared.....
 152, 153, 211, 220
 Late..... 462
 Laying in winter... 216
 Losing..... 220
 Losing while mating 475
 Mating..... 491
 Space for, when ex-
 tracting..... 444
 Sounding, for with
 pickfork..... 361
 Twin..... 291
 Two in a hive..... 558
 Unfertil in spring.. 557
 Queen cage--Boombower's 247
 Queenless colonies... 573
 How to
 tell..... 302
 Queen cells, bees building. 371
 Late..... 349
 Ondrone comb 475
 Raising..... 589
 Saving after
 started.....
 Questions, Answering pri-
 vately..... 10
 Questions answered..... 697
 Query department, Our... 11
 " 44, Remarks on..... 584

R

Raspberry juice..... 323
 Reports..... 11
 bees nearly all dead 40
 for Ontario 1885... 593
 for spring, My..... 251
 for winter quarters 19
 from a box hive man 556
 from Quebec..... 557
 from Virginia..... 284
 good..... 396, 364
 of a very good..... 11
 of the season..... 428
 winter of '84-5... 97
 1884.....
 J. Bull..... 602
 G. Guyer..... 701
 E. Schultz..... 745
 Robbing..... 573
 Coal oil to prevent 216
 To prevent..... 297
 Wet hay for..... 525
 Running water in bee cellar 588

Season at the north..... 428
 Season's lessons, The..... 486

Secretion, What is it..... 419
 Sections,.....3, 18, 20
 Bending..... 2
 Breaking..... 91
 Glassing..... 622
 How to get out of
 skeleton crates... 414
 In half storey.... 282
 Size and shape of.. 40
 Taking off..... 477
 Unfinished, to use 419
 Section cases..... 20
 rests..... 59, 133
 strips, tin..... 90, 200
 Setting out bees 5, 19, 59, 75, 131
 Shipping cage, Bentons... 403
 crates..... 41
 Shavings in lieu of sawdust 347
 Spagnum for cushions... 762
 Spring dwindling 4, 185, 344, 782
 Spring outlook..... 53
 Starters, Using..... 409
 Starvation..... 41
 Stings, blotches and sickness 250
 Stores, Raw sugar for... 444
 Strong Colonies feeding
 weak ones..... 606
 Sumach as a honey producer 270
 Sugar Syrup..... 429
 Swarms, absconding... 424, 429
 Clustering..... 201
 Hiving..... 490
 " four together 260
 " in a tent... 389
 large or small, for
 wintering..... 792
 Prevention of... 550 710
 Run away..... 252
 Strengthening their 364
 Smothering in hive 712
 Unusual..... 311
 Catcher, a good... 323
 and drone (Strang-
 ways)..... 349
 Swarming out..... 131, 199, 283
 Success in Bee culture 670, 722

T.

T. anusatratus, Fab..... 276
 T. back in yard..... 105
 Tar paper for bee-house
 ning..... 445
 Texas Bee Journal..... 558
 Temperature, Something
 about..... 666
 Ontario & Mi-
 chigan..... 567
 Val'ble points
 on..... 650
 That smell of tobacco..... 413
 Tin separators..... 282
 Tools, Care of..... 632
 Toronto Exhibition, good
 word for..... 428
 Transferring..... 71, 72, 121
 Trees for bee-keepers.... 744

Vice-presidents N. B. K. A 620

Ventilating..... 556
 Ventilation in cellar..... 736
 in winter, No. 698
 of strong and
 weak colonies 778
 upward..... 683, 729
 without upward 697

W

Wax..... 44, 60, 75, 126, 488
 Clarifying..... 51
 Duty on, 70, 116, 149,
 246, 317, 670, 742, 776
 Duty on and Adultera-
 tion..... 214
 Extractor..... 493
 Moulding..... 343
 Shipping..... 156
 Testing..... 510
 Varieties of..... 164
 Well Done, Dr. Tinker... 477
 Weight of a quart and colony 460
 " for wintering... 460
 What a Farmer's Son Did 520
 " Woman's hand may do 420
 What is it?..... 201
 " our English friends say 522
 " shall tie harvest be... 229
 Winter, The..... 10
 Wintering 48, 56, 99, 180,
 229, 391, 679
 Cellar..... 102, 413, 645
 Clamp..... 185, 204
 Doors damp affect 412
 Experience..... 359
 Feeding..... 515, 685
 Glance at..... 375
 Items on..... 469
 Losses in Haldim-
 and..... 104
 Management..... 707
 More about..... 536
 My plan of..... 230
 Notes on..... 231
 Preparing for 379,
 420, 460
 Problem..... 358, 549
 Quarters, weight
 ' for..... 437, 716
 report..... 215
 repository..... 294
 stores..... 382
 " preparation of 382
 Bulletin No. 8
 Are such losses necessary 503
 Dampness and ventilation 504
 Food..... 504
 Important Suggestions.. 504
 Methods that secure suc-
 cess..... 504
 Mode of procedure..... 506
 Packing..... 505
 Points to be considered.. 503
 Problems in connection. 501
 The cover..... 506
 Uniform Temperature.. 505
 Ventilation..... 506
 Winter losses..... 503
 Winter Feeding..... 755
 Wiring Brood Frames.... 28
 Wisconsin's Honey Flow.. 43