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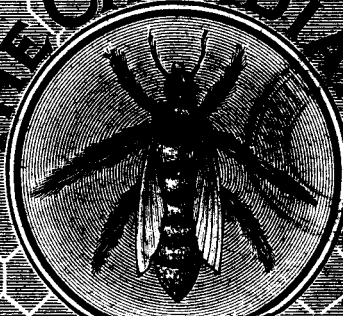
VOL. II, NO. 50.

1887

MARCH 9.

PUBLISHED EXCLUSIVELY IN THE INTERESTS OF THE HONEY PRODUCER

THE CANADIAN



JOURNAL

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To *Every Subscriber* who will forward to us the name of a *new* subscriber, accompanied by \$1.00, before April 1st, we will send FREE a copy of Rev. W. F. Clarke's "Bird's Eye View of Bee-Keeping," price 25 cents.

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BEETON.



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

VOL. II. No. 50.

BEETON, ONT., MARCH 9, 1887.

WHOLE No 102

For the Canadian Bee Journal.

WHAT DOES MR. CLARKE MEAN ?

WHILE perusing your issue of Feb. 16th I discovered that Rev. W. F. Clarke, in his article on page 926-7, has referred to me in a connection and manner which I think is unjustifiable under the circumstances, I have had no controversy with Mr. Clarke through the columns of your paper, and it is not supposable that a great many of your readers are aware that I ever had any controversy with him. Why he should use my name in that connection, unless he wants to pick a quarrel with me, I think he will find some trouble to explain. After lamenting with a sad lamentation over Mr. Heddon like a "hire-d mourner" he goes on to say, "Mr. Kretschmer has done himself honor in the manly way he has retracted. Now let Messrs Demaree, Shuck, Armstrong, Aspinwall *et id omne genus* do the same if they want to have the respect of their fellow bee-keepers, and keep their own self respect."

To my mind no greater presumption than the above has ever appeared in a bee journal, nor anywhere else outside of the history of Jesuitry. I have several letters from Mr. Kretschmer in which he shows conclusively that he used the chief feature of the so called "Heddon principles" long before the latter had any existence in history. But if Mr. Krutchmer has been guilty of a crime, or has injured any one unwittingly it was proper for him to "retract," but it was unchristian in Mr. Clarke to hold him up before the public as a reclaimed heretic. I shall not pretend to speak for the gentleman whose name Mr. Clarke connected with my own, except to say that they stand fully as high among bee men as

does Mr. Clarke, so far as I am able to judge, but they are able to take care of their own reputations. As for myself, I have written nothing concerning the Heddon hive that I did not believe to be well substantiated by evidence in history, and I have no honor to sell for the "respect of my fellow bee-keepers," nor do I crave the respect of a man who would delight to honor (?) me as one who has "retracted."

The Heddon hive was thrust before the public in a manner that to remain silent was equivalent to accepting all of its claims, and no one has contributed so much to the disagreeable and absurd features of this controversy as has Mr. Clarke. Right at the start, without any investigation or any qualification to decide practical questions, Mr. Clarke defied the whole army of apicultural writers, after the fashion of the famous Goliath, but unlike his brave prototype he cries out "persecution" at the sight of the shepherd's bag and smooth stone.

What does Mr. Clarke want me to "retract?" In the light of history and well known facts, the Heddon hive, claimed by Mr. H. and his friends to be new in mechanical construction and in "principles," is simply a combination of old and well known features in bee hive construction, except the application of "set screws" to tighten the frames laterally. This last named feature is *new* as to mere *application* so far as I have been able to ascertain from history. In a like combination in all its parts I presume no one would claim the right to use the Heddon hive without his consent, and I fancy very few will ever want to use it at all. Thumb screws sticking out at the side of a hive is objectionable and when exposed to the weather is impracticable. Inverting hives is a vain conceit, and to

interchange brood, horizontally promises nothing but useless tinkering and fuss, without any advantages. I repeat there is very few that will ever want the peculiar Heddon combination. As to mechanical invention, the hive is simply a shallow brood chamber hive, with Quinby close end frames, differing in no essential features from other shallow brood chamber hives that preceded it, excepting the application of set screws to tighten the frames as I have already noticed. Now, as to the "Heddon principles," as Prof. Cook puts it, the inventor claims that to set one of his shallow brood chambers on another of his shallow brood chambers makes *one* brood chamber, in horizontal sectional parts. Suppose we admit this to be true, is it not a fact that to "tier up" one brood chamber on another—a "principle" that has been well understood and practiced for years before the Heddon hive was ever dreamed of—accomplishes the same thing in fact, and in principle. No doubt the new words and phrases invented to describe the new (?) hive has thrown a mystery round about it, perplexing to the minds of many persons, but it is a fact that commends itself to common sense, that words cannot change material substance, neither can they change mechanical action. A hive "tiered up" is the same as a hive in "horizontal sectional parts." Let Mr. Heddon and his friends be content with such improvements as he has, or may make in bee hive construction and he will meet with cordial cooperation. But to compare Mr. Heddon's thumb screw and combination of old and well known features in bee hive construction, to Mr. Langstroth's great invention which underlies all subsequent invention, is perhaps the "keenest cut of all" that the reverend old gentleman will have to endure this side of the grave.

G. W. DEMAREE.

Christiansburg, Ky.

FOR THE CANADIAN BEE JOURNAL.

THE ARMSTRONG HIVE.

I HOPED my last letter would provoke Mr. H. into confessing some things I could not otherwise find out. He went beyond my expectation in confessing to the use of an apicultural writer. As a confession it does very well, as an "experience" guess at my method I denounce it as incorrect. Almost as unexpected was his squarely made confession that the ring was in understood combination for bull-doing purposes. As to his charge of concert of action among bee-keepers with myself, I believe it's true. I hope it is. I hope it can always be said of our brotherhood that the great majority of them can be depended upon to stand solidly to-

gether for the right. Not by organization as in monopolies, but by that honest instinct or principal that always unites an honest community against a murder or a robber. On this ground I believe I have them, for I am working for even justice, whether it benefits Armstrong, Heddon, or some other man. For the new ideas that go to make up his present system, Mr. H. is very largely indebted to his correspondence with those who challenge his exclusive right to use and sell their ideas, and to the printed statements of those who resist by fact and experience his monopoly claims, and yet I do not recall any public acknowledgment of money rights in these ideas that he has ever made to any of these inventors. Demonstrating by experiment that another man's ideas will work on your machine does not create you exclusive property right in that idea, even though you do advertise it. As to the wrong coat and the statement made in proof of it, I cannot doubt its verbal truthfulness, for he hasn't heard of my hive yet, that is, to know its construction, neither has he forgotten that we corresponded about it last summer, especially the half bee-space, for he speaks of it in this letter. But in view of the fact that I was the only man to whom the department had ever granted a patent on the half bee-space by its present time, the statement I made of responsibility and fair dealing became necessary, fit or no fit. I most emphatically reaffirm the other statements of my previous letters, none of which Mr. H. has seen fit to meet, and have nothing more to offer as they fully cover all points raised in his letters. I lack both the time and inclination, and I hope the talent to engage in a dodging contest that can do no one any good. Mr. Heddon's purpose in dragging in my friends, Kretchmer and Shuck, is too characteristic to be misunderstood. If he is sick of this self-imposed controversy the manly thing is to back out, not shift it. I do not bite at such a poorly concealed bait. I agree with Mr. H. and the Editors that the correspondence is more than personal and that the principles involved justify the use of the space. If no agreement is reached the facts will be before the bee-keepers, and we can depend on them to decide right regardless of sophistry or threats by whomsoever used. In the interest of truth and on the authority of written evidence over the signature of Mr. K. himself I want to correct the supplemental statement of the Editor that Mr. K. came forward unsolicited and manfully, etc. He did nothing of the kind. He says he came hastily, and that much is true. I have not described my hive, nor blowed about it. I am not in the habit of spunging my advertising. In a day or two you will receive cuts and copy

for an advertisement to go in this same number, and then your readers can see the hive and will know how to find out all they care to know about it. I am very much obliged to the Editors for the space allowed, and to my Friend for the abuse given. Both have made me many friends.

ELVIN S. ARMSTRONG.

Jerseyville, Ill.

We incline to the opinion that you have received about as much free advertising as has Mr. Heddon, especially as he (Mr. H.) is not interested in the territory where the CANADIAN BEE JOURNAL has its principal circulation, so that there is little more to be said on that point. We have about concluded that there has been enough of this controversy, as has there also been about hives in general, and we have decided to "let up" on it for a time so that we will consider this the last letter.

For the Canadian Bee Journal.

HONEY AND POLLEN IN WILLOWS.

REPLY to your query, page 914, C.B.J. as to whether our Willow produces honey and pollen each month in the year, I have to say

No Sir! Our Willow blossoms only once a year, that is in the early spring as with you; some time about March 15th or 25th.

Our Alder is the only thing that I can call to mind at present that blossoms continuously the year through; it only fails to produce tags one month in the 12. It is very plentiful here too.

Our spring appears to be very forward, the Hard Maple (the only kind we have here) is in bloom, and the Tar-Heel bees are just booming on it. The apple and peach trees have not so much as swelled their fruit buds yet.

I have plenty of young bees flying off this seasons rearing.

The American Albino Italians are the 'most forward' of all the bees I have in rearing brood and are booming on the Maples, while the Imported Cyrians and the Golden Italians are quiet in their hives, rearing very little brood and not so much as visiting the maples. The Lyro-Albinos and Cypro-Albinos are next in the order named, to the American Albino Italians for forwardness in brood rearing and storing honey from the early bloom. The Imported Cyprians are the most quiet and latest getting out in the early spring, of any bees I have or ever had before.

ABBOTT L. SWINSON.

Goldsboro, Wayne Co., N.C., Feb. 25th, 1887.

For the Canadian Bee Journal.

BROTHER JONATHAN AND AMATEUR EXPERT.

POOR Amateur Expert you are down—the ponderous Dr. has dropped upon you, and you now lie wreathing in agonies from the effect of the fall. Cheer up man you are not mortally wounded yet. It may be that you will be under the necessity of doing what *Mansie Waugh* did, after his honest exposure of the wandering play actors, to satisfy yourself that you are still "thare." "When I got up" says the honest Scotch tailor, "I found myself leaning with my broadside against the wall on the opposite side of the close. It was some time before I minded what had happened, so, dreading scath, I felt first one arm then the other to see if they were broken, syne my head and finally both of my legs, but all, as well as I could discover, was skin whole and scart free. On perceiving this my joy was without bounds, having a great notion that I was killed on the spot, so I reached round my hand very thankfully to take out my pocket napkin to give my brow a wipe, when lo! and behold, the tail of my Sunday coat was fairly off and away docked by the haunch buttons." I'll guarantee the tails of your coat is intact, notwithstanding the rough handling the yankee has given you. Take out your pocket napkin man, wipe the gore from your face, then apply it (the napkin) to your head. I'll warraat it will cover as much brains as that enclosed in the cranium of your adversary. It was a bold thing on your part to assert that some of his countrymen are selling the seeds of the "Bull Thistle" at 50 cents per oz. to their confiding bee-brethern. It was hazardous for you to assert that Brother Jonathan scruples not to steal the brains of his Cousins across the pond. For this the 229 pound *Medico* has let you have it "right from the shoulder," and you are down, but you are still in the ring. Up and at him again. Ten to one you are the best man, But fair play I say and that Dr. Mason be not handicapped for his gallantry. Let me whisper to the Dr. that you are neither a maid nor a Mrs. but a good-looking, intelligent, and practical bee-master in the prime of life. Go in boys, the bee-keeping world are interested spectators.

R. McKNIGHT.

Owen Sound, March 4th, 1887.

Wisdom is the aggregate of human experience; so, by putting our experiences together, we bee-keepers may become as wise as the little insects we patronize.—*Paxton*.

OUR PORTRAIT GALLERY.

S. T. PETTIT.

THE subject of this biography, is of English, Irish and German parentage. Mr. Pettit was born in the County of Wentworth, Ont. His father and mother were also born in the same county. Mr. Pettit was brought up as a farmer and often relates the fact, that, in his boyhood days, more bees were to be seen upon the flowers than now in his own immediate neighborhood, although 120 hives are kept at his home apiary besides the many owned by others in the vicinity. Mr. Pettit seemed to think that there must have been a very large

In religion, Mr. Pettit is an active worker, having been a member of the Methodist Church since 1850. In 1874 he was appointed Justice of the Peace. As his intimate acquaintances know, as do also those who were of the company which crossed the Atlantic in the interests of the O. B. K. A. Mr. Pettit is an extreme man on the tobacco and temperance questions, and is proud to be able to say, that none of his sons, three of whom are doing business for themselves, use tobacco, nor do they know the taste of intoxicating liquors, and this is something of which he may well feel proud.

To show what a trifling thing will arouse to activity dormant desires, the



number of wild bees in those former days.

The privileges of securing an education in those pioneer days were very limited but our subject made the best use of them. It is said that he had his books and slate always on hand and thus improved his leisure moments; so well did he do this, that when he left home on his own account, he did so to take charge of a school, which profession he followed for six years.

In 1853, he married Abigail, eldest daughter of Mr. Jno. DeWitt, of the same county and by the marriage there are four sons and six daughters.

following incident is related as to Mr. Pettit's commencement in bee-keeping. He had long cherished the thought of having bees of his own. In 1873 a neighbor was moving away from the vicinity of Belmont, and was about to take a colony of bees which he could not sell; to oblige him, Mr. Pettit took the bees on shares for a year, agreeing to return the old hive and half the increase. The result was, one good first swarm and 20 lbs. of honey. The old hive and the neighbor's share were then purchased for \$10 and from this point, the struggle commenced in real earnest. All the hives, bees and bee literature he could

get hold of were carefully studied and mentally devoured until he was fairly prostrated with bee fever. His friends began to have fears for his sanity on this point and the remark was often made that he had "bees on the brain and had gone bee crazy, sure."

The first winter his bees came through in good shape and did well the ensuing season. By the way, we did not mention that the colony which first came to him was in a box hive. In the fall of the second year two of the colonies were smothered in the usual way with brimstone; this was such a source of grief to him that he resolved to try the movable frames. An extractor was purchased and an entire revolution of things took place. The year following he took 900 lbs. of honey. The sensation which this produced in his neighbourhood can better be imagined than described: As was the case with the father of Mr. D. A. Jones, so it was with the people around Belmont, some believed it, some did not, while others said it was impossible that so much honey could be found in the flowers, thus insinuating that Mr. Pettit must have some hidden spring from which to draw the sweet nectar at will.

Like most bee-keepers, he invented a hive, but did not bring it to the light of the public gaze and says now he is pleased to think he did not.

It did not take him long to decide that *with him* farming and bee-keeping for the best results, in both callings did not agree, and wishing to take the world somewhat easier, turned the management of the farm over to one of his sons, and from that time devoted most of his attention to the study and care of bees.

At the annual meeting of the O. B. K. A. in 1885, he was elected President of the Association and took an active part in securing incorporation for the O. B. K. A. in 1886. The office which he held as the Executive of the O. B. K. A. gave him a great deal of work, and his efforts, together with those of others interested in the welfare of the Association, to make a creditable display at the Indian Colonial Exhibition at South Kensington, London, Eng., in the same year, are acknowledged and appreciated by bee-keepers generally; as proof of which, Mr. Pettit was re-elected President of the O. B. K. A. for the

current year. This is the first instance in which the President has held office for two continuous terms since the organization of the Association. We regret that during the past few months Mr. Pettit has been in ill health, but hope he may recover and be of much further service to his chosen vocation.

For The Canadian Bee Journal.

THE O. B. K. A. COMMISSIONERS AT THE COLONIAL.

(Continued.)

The honey reached London some ten days after those in charge of it had arrived. By this time the work of preparing for its reception was about completed. The staging and shelving were arranged as had been agreed upon. Then, the work of assorting and checking it with the invoices was begun and in due time completed, after which, the question of how best to display it came up. As might be expected, a well-marked difference of opinion manifested itself in this connection. There was about nine tons of extracted in jacketed tins containing 56 lbs. each, a goodly proportion of it in tins 10 lbs. each, the balance was done up in smaller packages as various in form as are the faces of the contributors. There were tubs, glasses, crocks and tins, all filled with honey. The comb was no better fitted, on the whole, to make a creditable show—fully one-half of it done up in crates of two dozen sections each, with a glass front, showing only one-eighth of its contents. Some there was, however, done up with the express object of displaying it to advantage. It is to the latter and those who contributed it, that most of the credit is due of making the exhibit what it was—an imposing one. How best to arrange this heterogeneous mass of honey was a puzzling question and one that called forth a variety of suggestions, one was for stacking it up by tons in their jackets, another would unjacket the clumsy looking packages and make at least a *clean* show of the thing. Different opinions were expressed and maintained with a tenacity characteristic of the importance each attached to his own opinion. There was no "let up" on the part of any one. Each clung to his opinion as the darling of his heart. The party was made up of one president and two or three ex-presidents—who then dare claim seniority or paramount control? Who among the party had the right to lord it over his fellows? There was a dead-lock, succeeded by a little "bear garden." Upon one point, all were agreed, that is, that there were four contributors whose quotas were markedly superior to all others in the neatness and taste with which they were prepared

and gotten up, there was but one opinion upon this point. It was also agreed that these were entitled to the four most conspicuous parts of the building, because of their special merits. It may be stated as a matter of justice, that these were not all contributed by the delegates themselves. That no man should be favored above his fellows, it was agreed that lots should be cast as to the respective places on which these four contributors should be set up. It was also arranged that every contributor's goods should be kept separate and distinct from every other, and, at the same time, the entire display should have the appearance of one homogeneous whole. Harmony and progress went hand in hand, so far, but the style and manner of staging the whole lot was where the difference of opinion manifested itself. To get away from this dilemma, each of the delegates set about putting up his own lot. This exercise appeared to bring them to their senses, and by and by their heads were brought together and a "show-man" was duly appointed. The duty was assigned him of not only setting up the display but of keeping it in a respectable form till the close of the exhibition. This duty he discharged with the exception of one lot which he either would not or would not be permitted to touch. Now, when "everything was lovely" and the honey stood high, the doors were thrown open to the public.

Whilst the preparatory arrangements were being carried out, some of the leading bee-keepers of England dropped into the building and became interested spectators of the work of unpacking, as well as competent critics of the quality of the honey itself. This, together with the way in which it was put up, was a surprise to the visitors and called forth warm encomiums which gladdened the hearts of the delegates and made their labors light. Prominent amongst the gentlemen who first presented themselves, may be mentioned Mr. Cowan, editor of the *B. B. J.*, Mr. W. Broughton Carr, joint editor of the *British Bee-Keepers' Record* published at Liverpool, Mr. Hooker, Mr. Sambels and Mr. Neighbor. Mr. Hooker was especially attentive from first to last, especially in arranging little excursions to points and places historically and otherwise interesting, himself chaperoning the party with great acceptance. His kindness and attention from their arrival to their departure never abated. His hospitality was as generous as it was disinterested and will not soon be forgotten. Mr. Cowan was equally kind, courteous and attentive, coming all the way from his winter home in Switzerland to receive them and to arrange the preliminaries for the banquet subsequently given them by their British brethren. It was matter for regret when he had to

leave and join his family at the base of the Alps. To Mr. Sambels they are greatly indebted for many pleasant visits and much considerate attention. He sent them up from Hertford, a nice collection of English honey and manifested his good will in many other ways. To Mr. Neighbor, their gratitude is due—he it was who invited them as a party—to their "first dinner out" in the metropolis. With him and his good lady, a very pleasant Sabbath afternoon was spent at their comfortable and commodious suburban home. Here they were taken for a stroll through the celebrated Kew gardens with their beautiful walks and flower plots, their green-houses, ferneries and palm houses. In the latter may be seen the largest specimens in the world, of these exotics, together with many other rare, strange and interesting plants. Mr. Neighbor is the possessor of perhaps the most complete library of bee literature in the world. This list might be continued but Peek-a-boo stops here for he sees the editor of the *C. B. J.* is introducing these and others to its readers. Let the brother bring out and exhibit each in turn, they are, one and all, a credit to the fraternity.

PEEK-A-BOO.

For the Canadian Bee Journal.

THE SCIENTIFIC HIVE.

SIR, MR. JONES, MACPHERSON & CO. :—I notice in *CANADIAN BEE JOURNAL*, Jan. No. 12, 87, page 835 and No. 28, page 875, same month. Giving my name and address, to the public a free adv. of course.

Sir Mr. Jones, by the way, it appears that you have your sleeves rolled up and standing between Mr. Heddon and myself. well suppose you roll up your pants and wade through that neck of water that divides U. S. A. & Can. Mr. H. I suppose would call it the river of Jordon & the Wader the Goliath of Canada or the armor bearer of the Philistines it appears that we have this side of Jordon many Davids with good slings and a few smooth stones picked out of the brook of common sense and we do not intend to have them tallowed or boilt in tallow as we would be in the estimation of Mr. H. in using some of his inventions. thinking my article may become too lengthy I would in short say to you Jones & Co. that we have plenty of natural gass here in sight that comes out of the Bowls of the earth, and when you give my name to the public as stated in your *JOURNAL* that the scientific hive is a glaring infringement on the Heddon hive is it not a fact that Can. gets gass out of Editors boots. I would say to you Mr. Editors I would like to have a shake with you & Mr

H. the first shake I remember of having with a bee master was Mr. King in the city of Dayton O. in 1852. Since that time I have kept myself posted on bees hives patents on hives &c. & in regard to Mr. H's writings he perhaps went to school with Horace Greely or Bob. Ingersoll as for his hive I never saw it only as it appears on paper. as for its shallow brood chambers and several other points are very good in fact all shallow hives are the hives for section box honey. yes and just as good for wintering in if honey does not contain too much acid in regard to the scientific hive I have studied the wants of bees for money and I have for several years caught on to these facts that shallow chambers by tiering up and properly economizing animal heat and proper ventilation will bring honey & honey is money. said hive I have been manufacturing & using the same in my apiary and intend to continue manufacturing and selling the same. as I am not in a court of Justice at this writing it is not necessary for me to explain my hive as it is explained in my circular if I am infringing on Heddon's hive I am right here at the above address and fully able to pay costs at court.

in conclusion I would say to the bee fraternity deal out Justice to whom justice is due my motto is if Heddon or any bee keeper has made an improvement on any of his supplies we or any one else in my estimation would be doing wrong to rob his brother in that way. pay your neighbor like a good boy if I was a ware of the fact that I have wronged Mr. Heddon he could have my hand and a royalty

well just think of it bee friends Mr. H. is a high kicker in fact he is the highest kicker of the shetland pony family. neighbor bee men do you not remember some years ago he kicked at all hives except box hives, yes and at our beautiful Italian bees, yes he kicked at them, would not have any thing in his oats but honey made by black bees. finally the little fellow got to kicking over the Honey extractors and had come foundation, yes he kicked with two or more feet among the Roots in Medina Co, yes and in my estimation he is kicking through the fish gates of London at present I would say to the bee friends if Mr. H. is kicking into your pockets and you are shure and can prove that you have not wronged him in regard to the patent on his hive, let him have his rights and we will have ours so let the little fellow kick.

J. B. MURRAY.

Ada. Hardin Co., Ohio, Feb. 21, '87.

We give place to the above article because we know Mr. M. will feel hurt if he is not allowed a hearing and partly

to illustrate the ridiculousness and absurdities that naturally follow in the wake of wrong doing. Mr. Murray, although having met Mr. King 35 years ago, does not yet clearly understand the hive he is trying to infringe. The Heddon hive is not a shallow hive nor yet has it a shallow brood chamber but a rather deep one, possessing the novel and useful functions arising from having that brood-chamber horizontally divisible and the parts interchangeable. Mr. Murray's assertion that he is right there ready to stand suit over this infringement is nothing but empty sound. When Mr. Heddon would get there Mr. M. might not be worth anything, yet every person to whom he sells the "scientific hive" is equally liable to prosecution if it is found to infringe Mr. Heddon's patent, as we think it does. The talk about Mr. Heddon's character comes very ungracefully from those we cannot keep their hands off the results of his labor, and his history is so well known that such talk is not worthy of further notice. The above article savors of foolishness so much, that, with all due respect for Mr. M., we must say that we have no more room for this class of literature.

QUERIES AND REPLIES.

UNDER THIS HEAD will appear Questions which have been asked, and replied to, by prominent and practical bee-keepers—also by the Editor. Only questions of importance should be asked in this Department, and such questions are requested from everyone. As these questions have to be put into type, sent out for answers, and the replies all awaited for, it will take some time in each case to have the answers appear.

DRONE COMB IN SECTIONS.

QUERY No. 133.—Why not use drone comb that is new and clean in sections, fitting it snug all around?

S. T. PETTIT, BELMONT, ONT.—Certainly use it.

G. M. DOOLITTLE, BORODINO, N.Y.—Have done so for years.

PROF. A. J. COOK, LANSING, MICH.—Sure enough. Why not?

DR. A. B. MASON, AUBURNDALE, TOLEDO, O.—I should certainly use it if I had it.

DR. C. C. MILLER, MARENGO, ILL.—I do not know of any objection, unless the queen can get to it,

JUDGE ANDREWS, MCKENNY, TEXAS.—I see no reason why I should not use it thus; but it is rarely on hand *new and clean*.

DR. DUNCAN, EMBRO, ONT.—Because the queen is apt to lay drone eggs on it when there is a scarcity of drone comb in the brood-chamber.

H. COUSE, CHELTENHAM, ONT.—Have had some very nice sections filled in this way, but it is not advisable to "grow" drone comb for this purpose.

H. D. CUTTING, CLINTON, MICH.—It does not make as fine an appearance when capped over as worker comb or foundation. Try it and see how you like it.

S. CORNEIL, LINDSAY, ONT.—So I do when I can get it without either honey or brood. The capping of the finished sections is a little coarser than that of worker comb.

DR. J. C. THOM, STREETSVILLE, ONT.—Why not? But the question comes, would it be the most profitable way of doing. I think you can't afford to do it.

G. W. DEMAREE, CHRISTIANBURG, KY.—I have tried it often and it does very well, but the bees do not finish the outer edges as nicely as they do when building the comb from a V-shaped starter.

ALLEN PRINGLE, SELBY, ONT.—New and clean drone comb that has not been used at all for brooding will answer in the sections very well, but you must shut the queen away from them by means of the perforated zinc.

JAMES HEDDON, DOWAGIAC, MICH.—We who kept bees many years before the advent of foundation, used to practice, *just* that. It is well to use what little perfectly new and white comb you can command, but for general use I feel that we will always depend upon foundation, either for guides or in full sheets.

J. E. POND, FOXBORO, MASS.—My reason is that I do not fancy the "look" of drone comb honey as well as worker. If the appearance is not objectionable it may be used, and the bees will fill it sure. Care must be taken to keep the queen out of such sections, else more drone brood than honey will be deposited.

BEES PACKED ON THE ABSORBENT PLAN.

QUERY No. 134.—Have you packed bees on the absorbent plan this season with or without top ventilation, or have you given a brood chamber sealed tight with plenty of entrance ventilation?

JUDGE ANDREWS, MCKENNY, TEXAS.—I never "pack bees."

G. M. DOOLITTLE, BORODINO, N.Y.—I use the former plan.

PROF. A. J. COOK, LANSING, MICH.—We have them both ways.

DR. A. B. MASON, AUBURNDALE, TOLEDO, O.—Sealed tight, with plenty of entrance ventilation, and in the cellar.

S. T. PETTIT, BELMONT, ONT.—My bees, 101 live in cellar, one outside. All, or nearly all, sealed tight, with propolised cloths on top.

JAMES HEDDON, DOWAGIAC, MICH.—Of our 500 colonies we have packed both ways, on an extensive scale, both in and out of doors.

DR. C. C. MILLER, MARENGO, ILL.—My bees were carried in the cellar just as they were on the summer stands; entrance open full width and all closed above.

DR. DUNCAN, EMBRO, ONT.—Mine has the brood-chamber sealed tight, with plenty of entrance ventilation. I use the same quilt summer and winter; take cushion off when in the cellar. All right so far.

H. COUSE, CHELTENHAM, ONT.—My bees are all in the cellar with the exception of three colonies, packed outside on the absorbent plan, with entrance full size, porous quilts and chaff packing.

G. W. DEMAREE, CHRISTIANBURG, KY.—I have bees packed both ways in my apiary, tight at top, and with absorbents at the top. It never makes any difference with my bees, if they are well ventilated at the entrance.

H. D. CUTTING, CLINTON, MICH.—I prefer plenty of entrance ventilation when left on summer stands. I want a good non-conductor over the frames in the upper story. With a good non-conductor you will not be troubled with moisture.

J. E. POND, FOXBORO, MASS.—I always pack my bees on the absorbent plan, using such top packing as will allow moisture to pass off imperceptibly, and still keep the heat retained within the hive. I give large entrance ventilation in all cases.

DR. J. C. THOM, STREETSVILLE, ONT.—A few stands I have out for the purpose of experiment, are packed on the absorbent plan, with cushions above through which moisture may evaporate. We have had the wrong kind of weather for a month past for much top "ventilation."

ALLEN PRINGLE, SELBY, ONT.—I give my bees abundance of entrance room in winter in cellar and spread over the frames from two to six inches in thickness of wool quilts, depending on the character of hive, the condition of the colony, etc. Of course I make provision for passage between the frames and the quilts.

S. CORNEIL, LINDSAY, ONT.—If our coats of woollen cloth and our woollen underclothing may be called "absorbents," then all my bees (180 stocks) are packed on the absorbent plan. A quilt of sheep's wool will confine the heat of the cluster within the hive better than a board cover, while at the same time it passes off the exhaled moisture, rendering unnecessary a large opening at the entrance for the rapid change of air at that point.

HOW TO GET BROOD IN SPRING.

QUERY No. 135.—Can we get as much brood in a shallow frame as a deep one in spring—one being six the other twelve inches deep?—E. LUNAN, Buttonville, Ont.

JUDGE ANDREWS, MCKENNY, TEXAS.—I can not.

PROF. A. J. COOK, LANSING, MICH.—I think so.

DR. A. B. MASON, AUBURNDALE, TOLEDO, O.—Think not.

DR. C. C. MILLER, MERERGO, ILLS.—I think not.

H. COUSE, CHELTENHAM, ONT.—I would prefer the latter.

DR. DUNCAN, EMBRO, ONT.—If there is the same number of square inches in both frames it makes no difference if you have plenty bees to cover them.

G. M. DOOLITTLE, BORODINO, N.Y.—I use a frame 10½x10½ mainly for the good results in brood rearing in early spring believing that it has an advantage over the shallower frames.

DR. J. C. THOM, STREETSVILLE, ONT.—I see no reason why we should not get as much brood in a shallow frame as in a deep one.

S. CORNEIL, LINDSAY.—Possibly we can by packing the bottom sides and tops of the hive with material which will keep the heat within the cushion.

J. E. POND, FOXBORO, MASS.—I don't know. I have used for years and prefer the "L" frame 9½ inches deep and believing that frame to be the best all-purpose frame now in use.

H. D. CUTTING, CLINTON, MICH.—For my use I prefer a frame from 9 to 10 deep. I think you can get more brood in a 10 inch frame with less work than you can with a 6 in. frame. The shallow frame is all right in its place but I don't want it in the brood chamber.

ALEN PRINGLE, SELBY, ONT.—That depends. Other things being equal, no. You would of course require more of the shallow frames than the deep ones, and then you might get as much brood in the aggregate. With equal cubic capacity and proper management you can get about as much with one style as the other.

S. T. PETIT, BELMONT.—I think not. But if you will strike a happy medium and try a frame from 9 to 10 inches deep, I think your bees will breed as rapidly as in a deeper frame. In a hive with frame from 9 to 10 inches deep the heat will be more evenly distributed throughout the entire hive than in a hive of deep frames.

JAMES HEDDON, DOWAGIAC, MICH.—Surely, as much, and if any difference more in the shallow hive. In a flat hive the heat cannot leave the cluster so readily. The queen will extend her brood-rest horizontally as or more readily than vertically. I know by years of experience and further, that flat hives are fully as good or better in which to winter safely.

G. W. DEMAREE, CHRISTIANBURG, KY.—Bees will breed faster in the early spring in a deep brood nest, this I have seen ample proof of, when transferring from tall "bee gunns" in the early spring. Six inches is too shallow for a brood chamber, unless two of them are to be used in the old tiering up plan. I tried this plan as soon as anyone else in modern times, and the plan is objectionable to me because of cost of hives made in that way, and chiefly because the plan adds labor to manipulation. But now, we cannot afford to adopt a certain depth, or make of hive because it is better than other hives for *just one thing*. I would make my frames 8 inches deep, if we did not have a standard frame 9½ inches deep.

SUNDRY SELECTIONS.

MORE LIGHT.

B. LOSEE.—You correspondent, Mr. Bridge, very properly gives his county and address, which is always necessary to judge.

Light is very attractive to bees in confinement, it is their life. My bees cross a light cellar from a cold cellar when the temperature has registered between 32° and 38°, and so far are quiet and are raising brood, loosing a bee a day by natural causes, and the discharge is in proportion to the loss of bees.

Cobourg, Feb. 25th, 1887.

THE INTERNATIONAL CONVENTION.

S. T. PETTIT.—Allow me to say in answer to Friend Heddon's call in a recent number of C. B. J. for an International Convention of bee-keepers, that my son has been suffering in a critical condition for some three weeks with inflammatory rheumatism which throws many cares upon me of which I have been relieved of for several years, and besides all that my own health is badly shattered so that it will be out of the question for me to give any attention to the matter at present, but should a convention be called I will do my best to be present.

Belmont, Ont., Feb. 28th, 1887.

ELLIS IMPROVED SUPER.

WILL ELLIS.—I am going to make a T super one half the width of hive. Mine shall be six inches wide inside, to hold three sections with separators. By making the supers in two parts they can be changed bringing the two outside rows to the centre of brood. I have been studying for some time how to solve this problem and I think I have done it. I have never seen it in use or in print. I shall claim it as my invention but any one can try it and report, yourselves included.

St. Davids, Ont., Feb. 25th, 1887.

BEES KEPT QUIET BY GIVING THEM AIR.

WM. BUEGLASS.—From my experience I think S. T. Pettit is correct in his statement in C. B. J. Feb. 23rd, 1887, in regard to fresh air keeping bees quiet. Last winter I set a colony with the entrance (size of entrance $\frac{1}{2} \times 12$ inches) about 2 ft. from the supply ventilator. Bees remained quiet with a change of temperature every day from 52° to 60°. If temperature went over 60° bees would begin to move around. They consumed very little honey and came out in splendid condition.

I had a good warm cushion over frames; I never gave bees water in winter confinement.

Don't think I will ever want to, unless to see if it would give bees dysentery. I have the fresh air idea under a good test this winter in my experiment room.

Bright, Ont., Feb. 26th, 1887.

Here we have already one favourable reply. Now, the next one please.

THE CANADIAN BEE JOURNAL

BEETON, ONTARIO, MARCH 9, 1887.

A CORRECTION.

We regret indeed the typographical error which made us say that *nine* of the suits as against bee-keepers which were taken up and defended by the "Bee-keeper's Union" were lost. Our copy said *none*, and by some means the accidental use of the letter "i" instead of "o" made the greatest difference in the world to the meaning we intended to convey. We thank the A. B. J. for calling our attention to it. The item appeared on page 931.

THE BEE-KEEPERS' ADVANCE.

The editors of the *Advance* take the CANADIAN BEE JOURNAL to task for what it terms "sarcasm" in our notice of it on page 895. Well, really, we hadn't meant to be so very sarcastic and we apologise, right here, if we were "shorter" than we should have been, as such was not our intention. So much has been said of late about copying the works of others and taking similar names or names on which there was a "moral patent," that we felt like having a joke at friend Mason's expense. When the C. B. J. commenced publication, it took *Gleanings* as its pattern, to a great extent, but we said so at the time, in our prospectus, because as friend M. remarks in his reply to us, "It would be hard indeed, at the present time, to publish a journal combining the several interesting features of correspondence, question department, letter-box, etc. and not pattern in part after some of our valuable journals." As to the motto of the C. B. J. which the *Advance* has, in substance, copied, we were the first to use it in connection with a bee publication, and had any one else had it, we should have cast about for some other motto representative of our ideas as to the interests which our journal was published to represent. The motto, of itself, is "as old as the hills." We did not wish to call the good people of the *Advance* thieves, so we "take it back." Seriously, issue No. 2 is away in advance (this is no pun) of No. 1, as to style and make up, and the contents are equally good, so that we again wish it success. This makes *three* times.

CONTROVERSIES IN GENERAL.

We think that friendly controversies are a good thing. They bring out points on any subject which, otherwise, a great many of us would remain in total ignorance of, but all subjects will after a time become exhausted, and further remarks will be, to a great extent, a re-hash of those already made. We think now, that enough has been said in the columns of the CANADIAN BEE JOURNAL to satisfy the majority of its readers and as our motto is "The greatest possible good to the greatest possible number," we propose that we give the "hive question" a "rest." There may be one or two who have a "right of reply" to articles which have already appeared and after these have been given space we will drop the subject for the present. To continue it, would, in a sense, be to our own benefit, but we are not working "on that line" altogether, as we have the interests of our readers at heart too much to wish to be so selfish.

CONVENTION NOTICES.

THE ST. JOSEPH INTER-STATE BEE-KEEPERS ASSOCIATION.—Will hold its spring meeting in Unity Church in St. Joseph, Mo., on 9th, between Edward and Felix, on Wednesday afternoon and evening, March 16th, at 2 p.m. and 7 p.m. All are invited.

E. T. ABBOTT, Sec.

St. Joseph, Mo.

The fourth annual meeting of the Listowel Bee-Keepers' Association will be held at the Royal Hotel, Listowel, on Friday, March 11th, at 2 p.m. A full attendance requested.

J. VANKLEEK, Sec.-Treas.

HONEY MARKETS.

BEETON.

Extracted.—Very little coming in. For A 1 clover or linden, 10 cents is paid; mixed flavors, 8 cents; darker grades, 6 cents—60 lb. tins, 30 cents each allowed.

Comb.—None offered, with market dull. We have about 200 lbs. on hand, No. 1 will bring 14 cents; No. 2, 12 cts. per pound. See special notices.

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.

DETROIT HONEY MARKET.

Best white comb honey in one pound sections at 12½ cents; other grades, 10 to 11 cents; beeswax, 23 cents.

M. H. HUNT.

Bell Branch, Feb. 11th, '87.

CHICAGO.

Since my last quotation honey has come forward very freely and from information now at hand it would appear that the Middle States will have all the Honey produced at home this season that can be marketed or consumed, and that we shall not be apt to draw upon the Eastern States as we did last year. Best grades of white comb to-day at thirteen cents, Extracted six cents and beeswax 25 cents.

R. A. BURNETT.

NEW YORK.

Since Christmas the comb honey market has been very sluggish and sales slow, but has shown more activity the past week. Stock in dealer's hands is large and prices rule accordingly. We quote present prices as follows:—White comb, 1 lb. sections, 10 and 12c.; white comb, 2 lb. sections, 9 and 10c.; off grades, 1 and 2c. per lb. less; buckwheat, 1 lb. sections, 8 and 8½c.; buckwheat, 2 lb. sections, 7 and 7½c.; California extracted, 5 and 5½c.; buckwheat, 4 and 4½c.

McCAUL & HILDRETH BROS.

HONEY OUTLOOK FOR SEASON OF '87.

The new comb honey coming in shows good quality. There was but little old comb held over, and consequently new arrivals sell well. Fancy white comb in 1 lb. sections, in paper boxes or glassed, commands 12 to 14c. and 2 lb. sections, glassed, 10 to 12c.; while lower grades of both sizes go at 8 to 11c. Dark pungent flavored Buckwheat Honey will probably be a good crop and go lower. The crop in N. Y., Pa. and Vt. is reported fair, while Ill., Iowa, Kas., Wis. and N. W. are said to have yielded well. A small quantity of Southern strained irregular Honey comes here, and sets as low as 50c. per gal. The crop there is large. Eastern Honey in barrels, sell at 5 and 6c. The California crop is reported heavy, and the 5 gal. cans (two in a case) finds ready sale in the East. In consequence of the big crop of this splendid Cal. Honey and low freights, there have been a number of cars disposed of here already at 4- and 5c. per lb. and much larger sales are expected in cooler weather.

PANCOAST & GRIFFITHS.

242 South Front Street, Philadelphia.

SPECIAL NOTICES.

Discount for March off our catalogue prices, 2 per cent.

We are prepared to pay the prices reported in the honey markets for all that is sent us, *in trade* at our catalogue prices.

We make a special offer on sections for the next month. We will supply the regular sizes (3½x4½ or 4½x4½) in Linden (formerly Basswood) in lots of 5,000 at \$4.50; 10,000, \$4.25. Price per 1,000, \$5.

We are the Canadian Agents for Mr. H. Chapman, Versailles, N.Y., for the sale of the "Chapman Honey Plant." Prices, ½ oz, 50c.; 1 oz, \$1; 2 oz, \$1.50; 4 oz, \$2; ½ lb, \$3; 1 lb, \$5. by mail prepaid. One ounce contains 1,600 to 1,800 seeds. One pound will sow ¼ acre.

PRINTING

PRINTING

Supply Men, Foundation Dealers,
and Bee-Keepers,

SEND FOR ESTIMATES FOR WHATEVER
YOU REQUIRE IN THE WAY OF

CATALOGUES,
PRICE LISTS,
CIRCULARS,
LABELS,
OR GENERAL PRINTING.

A large number of cuts in stock of
which patrons have free use.

JONES, MACPHERSON & CO.
BEETON, ONT

HEDDON HIVES!



We are the owners of the patent on this hive in Canada, and we are in a position to make and sell the hive gotten up in any shape to suit the purchaser—either in flat or nailed up.

A complete working hive consists of bottom-stand, bottom-board, entrance-blocks, two brood-cases, one honey-board, two surplus cases (in good seasons we often use three surplus cases on the hive at one time) and cover. So that if you order these hives in the flat this is just what will be sent you.

Sample hives we make up with the brood-frames wired and the surplus cases supplied with fifty-six 4 x 1/2 x 7 to the foot sections. These are designed for testing the complete working hive.

In quoting prices of brood-cases and wide-frames, surplus cases, the set-screws, brood-frames, and wide-frames with their tin separators are always included, both in flat and made

up. We quote the prices of sample hives made up, and of the various parts made up, so that should there be any portions of the hive you do not wish you can easily ascertain what deductions to make.

Sample hive, made up..... \$2 90
Add ten per cent if you wish the hive painted.

Prices Of Parts.

Bottom-stand.....	made up flat.	
	12	09
Bottom-boards.....	15	11
Entrance blocks (two).....	03	03
Brood case, invertible, including set screws and frames wired when made up or punched for wiring in flat.....	60	45
Honey Board (wooden) slotted, invertible.....	10	07
Honey board, metal and wood, invertible	30	25
Surplus case, invertible, including wide frames and separators.....	60	50
Cover, half bee-space.....	15	12
Sections, full set of 28 in flat.....	15	15
Tin Separators, seven to each.....	10	10

The cost of one hive such as you would receive, in the flat, would therefore be (without honey boards of either description) \$2.15. Add the cost of whichever style of honey-board you prefer, and you get it exactly. If you do not designate either we shall always include the wooden-slotted one.

Discounts in Quantities.

For 5 hives or more, 5 per cent.; 10 or more, 7 1/2 per cent.; 25 or more, 10 per cent.; 50 or more, 15 per cent. These discounts are off the prices quoted above, either nailed or in flat.

Individual Rights.

We will sell individual rights to make for one's own use, and to use the new hive or any of the special features of Mr. Heddon's invention at \$5. We do not press the sale of these rights, believing that the hives cannot be made to good advantage by anyone not having the proper appliances. We will sell however to those who wish to buy, and for the convenience of such we append a list of prices of what we would likely be called upon to furnish in any event:—

Woodscrews per 100, boiled in tallow.....	\$1 00
Tap bits for cutting threads.....	1 00
Tin Separators, per 100 proper width.....	1 50
Brood Frames per 100.....	1 00
Wide " " ".....	1 25

Heddon's 1887 Circular.

NOW READY.

ALL ABOUT THE NEW HIVE.

Canadians who wish my circular to know about the new Hive, ONLY, should send to the D. A. JONES CO., for their s, as I have sold the patent for all the American British possessions to them, and have no more right to sell the hive in their territory than have they to sell them in the United States.

Address,

JAMES HEDDON,
DOWAGIAC, MICH.

ITALIAN QUEENS.

Bee Hives and Supplies.

One piece sections, crates, shipping cases, foundation extractors, honey knives, bee-feeders, wire nails and metal corners.

Please send your orders before the rush comes.

B. J. MILLER & CO.,

98-110.

Nappanee, Ind.

THE CANADIAN BEE JOURNAL.

AND

American Agriculturist

With a good deal of other valuable matter,

ALL FOR \$2.00.

See advertisement on page 964.

ITALIAN QUEENS, 1887.

For Italian Bees and Queens in their purity for beauty and working qualities they are equal to any in the U.S. or Canada. Comb Foundation, 40c. per lb. Untested queens, \$1 each, \$11 per dozen; tested \$3.50 each. Queens reared in full colonies from egg; safe arrival and satisfaction guaranteed. Send for circular.

T. S. HALL,

Kirby's Creek, Jackson Co., Ala.

ESTABLISHED 1855.

BEEWAX 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,

R. ECKERMANN & WILL,

Beeswax Bleachers and Refiners.

Syracuse, N. Y.

BEE-KEEPERS ADVANCE.

Is a Monthly Journal of 16 Pages. 25 CENTS PER YEAR. Clubbed with the CANADIAN BEE JOURNAL for \$1.10. Sample copy sent free with our catalogue of supplies. Don't forget to send name and address on a postal to

J. B. MASON & SONS,

t.f.

Mechanics' Falls, Me.

RAY'S OF LIGHT.

—A new publication devoted to Bee-keeping and Poultry-raising. A number of the leading, most practical and successful Bee and Poultry-Keepers have already been secured as regular contributors. Its principal aim will be to advance progressive ideas upon the various topics of modern scientific Bee-culture and Poultry-Raising. Subscription, 50 cents a year. Sample copy free.

J. J. MARTIN & CO.,

North Manchester, Indiana.

TORONTO SUPPLY DEPOT.

AT BEETON PRICES.

MR. JOHN McARTHUR,

845 Yonge Street, Toronto, Ont.

For the convenience of bee-keepers living within driving distance of Toronto, and inside the city limits, we have established an agency at the above address. All orders which he may be unable to fill promptly will be sent on to Beeton and be filled from here. He will have on hand a supply of hives, sections, foundations, knives, tins, etc.

THE D. A. JONES CO., Beeton.

FOR SALE.

GROUP OF 120 AMERICAN BEE-KEEPERS' photographs, 10 of them Canadian, got up by E. O. TUTTLE, Vermont, almost all the leading bee-keepers of America in it. Supplied by R. F. Holterman from Brantford, Ont., who is the authorized agent for Canada. Price, post paid, \$1.35; size 11x14 in.

Feeders.

The demand for feeders seems to be growing. We offer three different styles suitable for different seasons:

ENTRANCE FEEDERS.

Double the usual size, each..... 15c
" " " per 100.....\$12 50c

THE CANADIAN FEEDER.

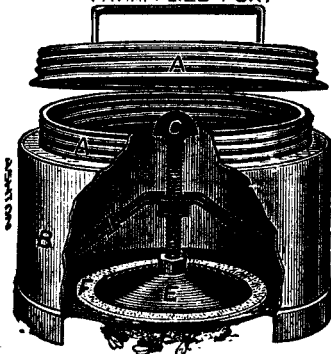


This is for fall feeding and enables you to feed 15 to 20 lbs. at once with no danger of robbing.

Made up, each.....\$ 50
" " per 25..... 10 00
In flat, each..... 35
" " per 25..... 7 50
" " " 100..... 25 00

THE D. A. JONES CO.

PAT. APPLIED-FOR.



10 lb. \$5 50.

PERFECTION BEE FEEDER.

The "PERFECTION" having been thoroughly tested, and proved of inestimable value in bee culture, the undersigned, a practical apiarist, is prepared to furnish the same at reasonable prices, and the usual discount to the dealers. Among the many points in which this feeder excels all others are the following.

The supply of food can be perfectly regulated.

The food will not become rancid, nor sour, and is strained before it reaches the bees.

The same method is used in feeding as provided in nature.

The "PERFECTION FEEDER" is simple in construction, well made, readily cleansed and durable.

It is most admirably adapted to the use for which it is intended, and will give entire satisfaction to those who will give it a trial, as its merits are unquestionable.

Prices for sample Feeder, by mail, postage paid, 4 lb. Feeders, 50cts. 6 lb. 60cts. 10 lb. 70cts.

For one dozen PERFECTION FEEDERS F.O.B., 4 lb. \$3.50, 6 lb. \$4.50
Address, **M. E. HASTING,** New York Mills, Oneida Co., N.Y.

TOOLS For BEE-KEEPERS

HAMMERS.

We shall hereafter keep in stock a full line of tools suitable for bee-keepers. For ordinary use, where a person has only a few hives, etc., to nail, we have an iron hammer (with adze eye) which we can send you at 15 cents.

Then in steel hammers we have three styles all with adze eyes, which we sell at 40c., 50c., and 60c each.

Small hammers—steel face with adze eyes, just what are needed for frame nailing, etc., No. 55, 35c; No. 52, 50c.

SCREW DRIVERS.

With good hardwood handles and of the best steel—nicely finished, round bits, in two kinds, No. 1, 5 inch bit, 18c.; No. 2, 6 inch bit, 20c.

TWO-FOOT SQUARES.

In iron squares we have two kinds—the first of these is marked down to one-eighth of an inch, and is marked on one side only, the price is, each, 20c.

The other style is marked on both sides down to one-sixteenth of an inch—price, each, 35c.

We have a splendid line in steel squares which we can furnish you at \$1.35. They are well finished and are usually sold in hardware stores at \$1.75.

TWO FOOT RULES.

A splendid line in rules we offer at, each, 18c. Then we have a nice box-wood rule at, each 25c.

HAND SAWS

Just at the present we have but one line in these—26 inch long—A. & S. Perry's make—usually sold at 75 cents we offer them for 55c.

PANEL SAWS.

These are what are often called small hand-saws, and for the finer classes of the bee-keepers work are indispensable. We have started out with two lines in these. The 18 inch are of good steel (Shirley and Dietrich) and can be sold by us at 50c.

The 20-inch are finer steel—same make—that money.

PLANES.

Iron block planes, just the thing for dressing off hives, each, 75c.

Wooden smoothing planes—the best of the kind, 85c.

All the above goods are sold at prices 20 to 25 per cent. below the ordinary retail price, so that when ordering other goods you may just as well have any you want as the cost of transportation will not be any greater. These will be included in the next revision of our price list.

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

BEETON, ONT.

HIVES NEW AND SECOND HAND.

We have about 500 hives all made up—some of them painted, which are just as good as new, having been used for storing combs in, a few have also been used one season, coat of paint will make them all as nice as new. We have no room to store them, and will sell them at less than regular figures.

In lots of.....	5	15	25	50
Regular price, each..	\$1.40	\$1.35	\$1.30	\$1.30
We will sell at.....	1.00	.95	.90	.85

These prices are for the painted ones, deduct 10 per cent. for the unpainted ones. The terms will be cash with order, and these will be nett figures.

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

DADANTS FOUNDATION

is 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. 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, 1910 Germantown Ave., Philadelphia
- G. B. LEWIS & CO., Watertown, Wis.
- 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.
- I. A. HUMASON, Vienna, O.
- C. I. GRAVES, Birmingham, O.

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

COMPLIMENTARY

and UNSOLICITED TESTIMONIALS from as many bee-keepers in 1883. We guarantee every inch of our Foundation equal to sample in every respect.

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

THE CHAPMAN HONEY PLANT,

Having expended thousands of dollars in bringing before the people one of the most wonderful honey producing plants known in the United States, or even in the world, and testing it honestly and fairly, wish to say through your valuable JOURNAL, that the seed contains so much oil that nothing but fresh seed will grow, or by thrashing if the seed is bruised or broken it will not grow, for this reason, and by the advice of many prominent bee-keepers, I have decided to sell the limited amount of seed I have raised this season at the following prices, and will send to those who have already ordered, the amount of seed due them at this low price:

Half Ounce.....	50c
Onc Ounce.....	\$1 00
Two Ounces.....	1 50
Four Ounces.....	2 00
Half Pound.....	3 00
One Pound.....	5 00

One ounce contains from 1600 to 1800 seeds. One pound of seed is sufficient for half acre if properly thinned out and reset. Write all orders plainly and given your Post Office in full

H. CHAPMAN
Versailles, Cattaraugus Co., N. Y.

APIARIAN SUPPLIES

MANUFACTURED BY

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

Are unsurpassed for **Quality** and fine **Workmanship**. A specialty made of all styles of the **Simplicity Hive**. The "**FALCON** 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. Also manufacturer of "**FALCON**" **BEARD FOUNDATION**. Dealer in a full line of **Bee-Keepers' Supplies**. **TWO (2)** per cent. discount in March. Send for Illustrated Catalogue for 1887. Free.

W. T. FALCONER.

BEE-KEEPER'S GUIDE,

OR

MANUAL OF THE APIARY

5000 SOLD SINCE 1876.

The fourteenth thousand just out. 10th thousand sold in four months. More than 50 pages and more than 400 illustrations were added to the 8th edition. It has been thoroughly revised and contains the very latest in facts to bee-keeping. Price by mail, \$1.25. Liberal discount made to dealers and Clubs.

J. COOK, Author & Publisher.

Agricultural College Michigan

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,
Manager, Beeton, Ont.



Flat Bottom Comb Foundation.
High side-walls, 4 to 14 square feet to the pound. Wholesale and retail. Circular and samples free.

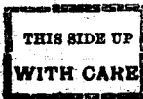
J. VANDEUSEN & SONS,

SOLE MANUFACTURERS,
SPROUT BROOK, MONT. CO. N Y

Shipping Labels.

These are for pasting on the tops of cases.

Price, per 10..5c. by mail, 8c.
" " 100.25 by mail, 27
" " 1000.1 50 by mail, 1 60



YES! I take the Poultry Monthly and consider it the best Magazine published, by a large majority. My fowls are now the best paying stock that I own. I have cleared over \$400 thus far, and business is just booming. I would advise every poultry keeper to subscribe for it without delay, as it is brim full of practical information.



NO! I do not subscribe for the Poultry Monthly but intend to do so at once. I am told it is the best poultry journal published. I said I was too poor. My hens did not lay, They sickened and died. I had no poultry paper to tell me what to do, all because I wanted to save a dollar. I had to sell my place under mortgage. The "old woman" has gone back on me. My hair is getting thin, and the fact is I feel bad.

SPECIAL OFFER.

We want to place the MONTHLY in the hands of everyone interested in poultry and pet stock, and will send the paper for a full year for \$1 to all who subscribe this month. The regular price is \$1.25 per annum.

Address,

THE POULTRY MONTHLY.

P. O. Box 215, Toronto, Can.

PRIZES.

Are being offered by the Magazine to the three subscribers who obtain the largest amount of comb honey during 1887. Write for particulars.

BEE-KEEPERS' MAGAZINE,

Barrytown, N. Y.

Mention this Journal.

Queen City Oil Works

The Highest Honors and Gold Medal For Our

PEERLESS OIL,

Manufactured only by SAMUEL ROGERS & CO. Toronto