

rest directly over the space between two brood-frames below, and the centre of the top bars below, shall come directly under the spaces between the said slats. Any honey-board that contains neither of these principles, is not a Heddon honey board, but one that does contain either of them, is. Extensive and repeated experience with these boards not only gives me the knowledge that their usefulness by far outweighs their cost and manipulation, but they are in no way, whatever, any detriment or hindrance to the bees and their work. You will notice that by fitting your hives and supers to a honey-board containing a bee-space, the same can be used without the honey board, all bee-spaces remaining as perfect as when used in connection with it. This honey board has never been patented, except in combination with my new hive as described in past numbers of this JOURNAL. It is used and highly prized by such producers as Dr. C. C. Miller, R. L. Taylor, W. Z. Hutchinson, Prof. A. J. Cook and scores of other equally expert bee-keepers, less known to the public. I am confident that it has come among us to stay.

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FOR THE CANADIAN BEE JOURNAL.

THE HEDDON HIVE CRITICISED.

PERMIT me to write a few words in reply to Mr. Heddon's answer on page 227 to my communication on page 190 C. B. J. about the new hive. First, I wish to repeat what I have said heretofore and which it seems that Mr. Heddon doubts, namely:—That I have no envy, or as he calls it bitterness, etc., but what I have said in my communication on the hive is purely and solely the conclusion (after seeing the hive) of my studies of the nature and habits of the honey bee the past eighteen years, just about the same length as Mr. Heddon has been at it, although I must admit that Mr. Heddon can at times make bee culture look a great deal better on paper than is possible or profitable for many bee-keepers, if put in practice. His late year's management of bees does not warrant all bee-keepers to follow him without investigating first, no matter how good and simple they may look on paper. There are not many bee-keepers who can stand to lose \$1800, or nearly all their bees, in one single year with Mr. Heddon's management and then tell us of our weak understanding of it. If this is true who will be very anxious to adopt it?

Mr. Heddon knows also that the pollen theory is a mistake, but will not acknowledge it and as he got stuck on it (by many undoubted facts

which appeared in the bee-papers) he will let Prof. Cook hold to the tail as that is a good way for him to get out. According to the writings of chemists it is not very likely that Prof. Cook will analyse the cause of bee diarrhoea "correctly" out of pollen. Chemists tell us that there are different stones which contain the same ingredients yet one is the best of fertilizers and the other is worthless. Different flowers analyse the same, one has a very fine aromatic and the other a very disagreeable and offensive smell. We have different mineral springs and lakes, whose waters contain the same ingredients and yet there is a vast difference in their healing powers, which analysis do not show and the chemists acknowledge that they have not as yet reached that point of excellency to find a way to show it. There is as much unfolded in their line, as is in the apiary and the Creator of all things alone knows, though we all hope that we may yet find out the cause of bee diarrhoea, however my late years experience satisfied me that cold is undoubtedly the main cause. We heartily and cheerfully give Mr. Heddon praise and honor for such inventions and writings as are really practical and in accordance with the unchangeable nature of the honey bee. Of the many contrivances that Mr. H. has invented or recommended the section case stands at the head, which is, to my estimation, the best and most practical in use. The slotted honey-board is probably another good invention and many other contrivances which may be good, but I have no use for any of them and I defy Mr. H., if he can produce more and nicer honey with all of them (except the section case) than I can other things being equal, not forgetting to have the bees in the best possible wintering condition on natural food when the honey season is over, and not create suspicion on the customers by feeding sugar. If I am not mistaken Mr. H. is also the inventor of the sugar feeding, at least he advocates; it is a pretty way to buy sugar to feed the bees and let the honey lay high and dry in a store-room for a year or two. But I can not imagine what struck Mr. H. when he invented his hive, with which he splits the very best part of a colony of bees right in two and holds them apart with a lot of sticks on each side of that split. Mr. Heddon and every practical bee-keeper will agree with me, that this is the worst part about the hive and the one that will fulfill my prophecy. Every practical bee-keeper, too, knows that no better results can be obtainable, other than to keep the bees in such a shape as to have their brood nest as much of a form as is the cluster of a natural swarm when hanging quietly on a branch of a tree. It is natural for them in