

four inches wide before being run through the six inch mill.

WEED'S ARTIFICIAL COMB.

Mr. E. B. Weed, of Detroit, has succeeded in making an artificial comb with septum the same thickness and walls as light and deep as natural comb. This is for use in sections. For brood he uses, I understand, a thin wooden base to give sufficient strength to the comb to put a swarm on in hot weather, and to bear extracting. At this writing I have only seen a small sample of the first-mentioned and cannot speak from experience of its practical value, but it certainly is a marvellous production.

ONE-SIDE CELL FOUNDATION.

At various times beedom has been agitated with reports of "new inventions" in the shape of foundation having some material foreign to nature as a base and with cells on one side only. M. Koerbs, a German, makes great claims for an invention of this kind, but its practical value has yet to be proven.

A great many years ago before foundation machines were made I became interested in comb foundation and tried glass, wood, tin, paper, as bases for sheets of wax, etc., without much success. In one of my experiments I waxed the side of the division board and placed it next to the combs. The bees drew out cells on some of it, other places they would build brace combs between that and the combs next. Portions of the wax, especially towards the bottom of the division board, they did not seem inclined to work on, and spots of smooth wax were left untouched. I could induce them to build comb or draw them out by taking a small hexagonal stick and indenting the thin layer on the board so that it had somewhat the appearance of an imperfect septum. Since then we have tried calico, bleached cotton, various kinds of paper, tracing linen, tin, glass, wood and tinfoil. On my return from Cyprus with bees in 1880 I brought samples of wood foundation from Mr. Abbott, of Southall, London. The only cloth I could get the bees to accept with any degree of satisfaction was tracing linen, and the only paper a very heavy linen with a smooth surface. On sheets of this paper I have frequently written the Lord's Prayer in

a large bold hand, dipped the paper in hot wax, passed it between the rollers, and had the bees draw it out into perfect comb and fill with honey. Years ago I exhibited this at Toronto Exhibition, also wood, metal and cloth foundation. After it was drawn out the bees would gnaw at the septum and seemed to fancy the threads in the cloth were moth webs, and commenced pulling and gnawing them out; if they were left in long enough they would tear every shred of the cloth away. All the experiments proved was the utter uselessness of proceeding on this plan.

For the CANADIAN BEE JOURNAL.

AN ENTOMOLOGICAL QUERY.

YOU will find enclosed one dollar and fifty cents, being the price of Cook's Manual, which I am well pleased with; it shows that bees have more enemies than I was aware of. When we took our bees out of the cellar in the spring, we cleaned and white-washed it and put our milk in, but found a lot of dust on the milk every day. We examined it with a magnifying glass and found it to be small insects, so one day we got hold of a small wasp and examined it, and found the body was covered with small insects, very much the same as in the cellar, but rounder. We came to the conclusion that they came off the bees, but never saw any on bees. Any information on this would be gladly accepted.

WILLIAM MCKENZIE.

Woodbridge, Ont.

From the Bee-Keepers' Review.

Heddon Case, Wide Frames and T Supers, the Last-Named Preferable.

I HAVE heard men say they were satisfied with their arrangements for taking surplus honey and wanted nothing better. I have never had anything with which I was entirely satisfied, and never expect to have. None the less, I think I can tell something about the advantages and disadvantages of different sections and supers. At present I am using T supers and one-piece, $4\frac{1}{2} \times 4\frac{1}{2} \times 1$ 15/16, sections, which is equivalent to saying that in the present state of my knowledge I know of nothing better. I have used, previous to using the T supers, 6 lb. boxes on box hives, also on frame hives, wide frames, and Heddon supers, giving each a thorough trial, and to a less extent two or three other kinds of surplus arrangements. If I were like some, merely