

most approved signal designs, nothing added nothing to be subtracted. These instincts and endowments are very curious and puzzling to man, and he can only use them and work by them. He does not change the bee or instruct it in his wants, or to do his pleasure, but he simply works by what he finds, and accommodates himself to them and assists them all he possibly can.

MAN'S ASSISTANCE IN BEE WORK

is measured by his ingenuity in this line and is generally in the way of improved hives for them to work in, comb foundation for them to build on, division, temperature, etc. By these well directed means the income and gross earnings or revenue from the bees of any given country is simply immense. The real wealth thus added to a country's assets can only be properly estimated by a strict and careful census of the bee workers of that country. This you will observe is a redeemed wealth that were it not for them and their labors would be entirely lost to the inhabitants. Not having the authorized statements of the bee products of our country at hand, I am not in a position to give you the statements, but I have no doubt that the value thus saved to us would run into the

HUNDREDS OF THOUSANDS OF DOLLARS.

Just imagine that we had no bees, and that all this great wealth of richness were not gathered at all, can you estimate the loss to our national finances to our plant and fruit products, and to our individual wealth and palate enjoyments? In this view of your industry, how is its importance magnified before you? Are you not more and more impressed with the clear and manly duty of cherishing, harboring, caring for, and assisting

"THE LITTLE BUSY BEE

that gathers honey all the day from every opening flower?" The original designs of the honey were to attract the bee to the flower for the purposes of the plant. Man engages the services of the same bee for his individual purposes, and to enhance his direct enjoyments. A beautiful harmony is thus seen to exist in all the arrangements of nature. I feel a sort of relationship existing between my happiness and the workable

duties of so small and insignificant an insect.

For the Canadian Bee Journal.

PRIORITY OF LOCATION.

ON page 27, C. B. J., in the address of Rev. W. F. Clarke, occurs the following statement: "Some prominent members of the apicultural fraternity are advocating the passage of a law, to secure to the first comer as a bee-keeper into a neighborhood, the exclusive ownership of the bee-forage within certain limits." Will you, Mr. Editor, ask Mr. Clarke to kindly give the names of the parties to whom he refers, and also the place, if any, where mention has been made of the matter in the bee papers?

DR. C. C. MILLER.

Marengo, Ill., April 9th, 1887.

For the Canadian Bee Journal.

"SHALL WE CALL IT A SHUT OUT?"

HOW IT IS MADE AND HOW USED.

IN reply to Mr. Clark Hall, who on page 97 of C. B. J., asks me to explain my honey-board. I presume Mr. Hall means my, my, O, dear! what shall I call it? The same thing is called perforated zinc, zinc separators, perforated metal queen excluders, perforated metal honey-boards, queen excluders, etc. Now it seems to me that we ought to do better than that. Now when this instrument is used to shut the queen out of any part of a hive, or to confine her to any particular part thereof I move that the term "Shut-out," be used. If anyone will kindly second the motion it shall be submitted to the popular vote and I believe it will be carried.

How to make a Shut-out, (O! beg pardon, the name has not yet been sanctioned). For rims and to form proper bee-space, I use pine $\frac{3}{4} \times \frac{1}{2}$ inches, the sheets should be full size of hive, this gives the bees perfect freedom. I cut and nail on pieces of I. C. tin $\frac{3}{4} \times 2\frac{1}{2}$ inches across the joints to make all stiff. Now a piece same as rims should be nailed and tinned across the centre of "Shut-out" in such a manner as to lie across the frames of hive when placed on hive.

Remember there must be two bee-spaces, one above "Shut-out" and one below it. And if you use metal of the right sized holes, and if your shut-out is so made and applied that you get the right bee-space, viz., $\frac{3}{8}$ in., not more, better a shade less, your bees will not be, either annoyed or hindered in their work. Worth to me, one dollar apiece, or more.

Their principal use is for hives run for extracting. If sections are not filled with foundation