

the use of which it may be adapted for spraying gardens, plants, trees, lawns, &c., as well as for controlling swarms. There are lots of uses to which it may be put and at the price at which we are enabled to offer it many will be sold. The list price for the galvanised iron ones is \$3, but we can offer them at \$2 each to customers as we have got them at a special rate. If any of our subscribers want one let them send right along.

## QUERIES AND REPLIES.

UNDER THIS HEAD will appear each week, Queries and Replies; the former may be propounded by any subscriber, and will be replied to by prominent bee-keepers, throughout Canada and the United States who can answer from experience, as well as by the Editor. This Department will be reserved for the more important questions, others will be answered in another place. We hope to make this one of the most interesting departments of the JOURNAL.

### CAN BEES HEAR?

QUERY NO. 17.—COBourg, ONT.—Can bees hear a report as they do a jar when active?

H. COUSE, THE GRANGE, ONT.—I think not.

O. O. POPPLETON, WILLIAMSTOWN, IOWA.—Am inclined to think they can.

H. D. CUTTING, CLINTON, MICH.—The report of a gun will not disturb them as much as a slight jar on the frame.

ALLEN PRINGLE, SELBY, ONT.—They doubtless can, if the concussion is near enough for the vibrations to reach them.

M. EMIGH, HOLBROOK, ONT.—I have never been able to make noise enough to attract the attention of bees.

S. CORNEIL, LINDSAY, ONT.—As I understand the question there is no difference between hearing a report and hearing a jar. If they can hear one, they can hear the other.

PROF. A. J. COOK, LANSING, MICH.—There is no good evidence that bees hear. That they are exceedingly sensitive to vibrations is patent. This may serve for hearing.

DR. C. C. MILLER, MARENGO, ILL.—I don't know whether they can hear a jar. The feeling of it is probably more perceptible than the noise of a report. There are some things that seem to point to the probability of bees hearing.

G. M. DOOLITTLE, BORODINO, N. Y.—I never could discern that bees could hear anything

except that which caused a sound loud enough to produce a concussion of the air near or about the hive sufficient to jar the same. The firing of a gun near the hive will disturb them, but helloa as loud as you will, they are not disturbed by it.

DR. J. C. THOM, STREETSVILLE, ONT.—It is a difficult question to determine, as the concussion of the air might alarm them, leading the observer to conclude that they had heard the report. I am of the opinion they do not hear a report.

S. T. PETTITT, BELMONT, ONT.—Yes, bees can hear and they have a short language that they understand, and by which they can communicate with each other. If a miller be dropped on the alighting board, they call for help, &c. But they pay attention to sounds only that concern themselves, turning a deaf ear to all other rackets and broils. A good example is it not?

BY THE EDITOR.—At the time of hiving, if the queen is kept out of the hive, the bees become excited, but if the queen is allowed to enter the hive suddenly, they strike up a different note, and commence drumming at the entrance which, apparently, others hear and by which they know the queen is in the hive. We are not yet fully convinced whether they go by sound or sight, the latter appears the more reasonable; if a moth is thrown on the guards at the entrance, or one of their number is touched or disturbed, it seems to make a peculiar sound, the others catch the note, and suddenly there is quite a commotion, and yet these evidences do not prove whether it is the sudden motion or the sound that affects them.

### CONVENTION AT MOUNT FOREST.

A Bee-keeping convention will be held on Thursday, June 18, in the Town Hall, Mount Forest. Morning session at 9.30 o'clock, for organizing association: public meeting at 2.30, open to all comers, to discuss general topics in connection with apiculture; and at 8 o'clock p. m., a general mass meeting, addressed by Mr. D. A. Jones, of Beeton, who will take up bee-keeping generally and give practical information to all lovers of the business. All are invited; no admission; collection at close.

J. H. DAVISON, Mount Forest.