

tect the queens in their cells while perhaps one had escaped, and in unfavorable weather we have known them to continue piping for several days, and even then not swarm. But when a swarm issues in the regular way, when the piping is heard in the hive about the time the second swarm is expected, you may watch for a swarm very soon after you hear the piping.

The little braces that they build between the combs is a very common occurrence. They do not build them so frequently when the combs are kept a little farther apart. But as they are easily removed, they will do no harm.

We like the tone of your letter and believe it is just such men as yourself who will succeed at bee-keeping. We would advise you, however, if there is a scarcity of honey plants in your section, that you procure some seed which will produce honey plants, and sow it along the roadside, in vacant lots, in fence corners, or any place in which you think it will grow. In the course of two seasons you will notice a vast difference.

We hope to hear from you frequently, and wish you every success in your new undertaking.

FOR THE CANADIAN BEE JOURNAL.

NEW BEEKEEPING PATENTS.

The following is the list of patents issued to Nov. 9th, 1892, from the United States Patent Office, Washington, D. C.:—

Beehive, to John W. Crisinger, Nevinville, Ia., U.S.

This hive consists of a storage compartment consisting of a rectangular casing having inwardly extending side flanges and end flanges extending inwardly from the casing. A series of trays of a length less than the length of the interior of the casing and greater than the distance between the end flanges, rests on the trays, a series of right-angled openings in the upper edges of the trays, hooked bales for fitting in the said openings, and a stop having a lateral projection on its lower end

of a width equal to the width of the space between the trays and casing, and of a length equal to the width of a tray.

Centrifugal Honey Extractor, Florence Williams, Seneca, Wis.

A comb-holding frame comprising two or more bars at its lower end, a ring uniting the same upright bars and a ring uniting them at their upper ends, and comb holders pivoted to the said frame; midway between the upright bars, a gear segment carried by the pivot of each holder at its upper end, a ring having a rack for each segment, and a shaft carrying said ring and journaled in said frame at its lower end.

MISCELLANY.

Cellar Wintering.

Not every cellar is a safe repository for bees; it should be warm and well ventilated, the thermometer indicating between forty and forty-five degrees. Some beekeepers claim that bee cellars do not need ventilation. Why not? Bees breathe and throw off moisture and impurities, the same as man. The first bee-cellar I ever saw, was at the foot of the Green Mountains in Vermont, while visiting an aged bee-keeper residing there. In answer to my query, as to how he kept his hives so new and fresh, he said, "my bees are only out of doors when honey is to be gathered. I keep them in the cellar until Summer returns. When the honey season is past I return them to the cellar." He showed me where he kept his hives saying: "this cellar has been built one hundred years. It is walled with stone and does not freeze. That hole there above the wall, which looks like a square stove pipe, is a ventilator which I can open and close at pleasure. This box is for holding ice, if the bees get too warm, but I've never used it. They always winter well, and appear stronger in spring than in autumn. Some of my neighbors set their bees out during a warm time in March, and when I took my bees out, *theirs* were all dead."—As I had lost in previous winter and spring 95 colonies of bees, I was converted to cellar wintering, after seeing how this man wintered without loss, and saw his bees filling up the honey.—*Orange Judd Farmer.*

Improved Hives.

Perhaps the latest invention in the direction of a hive is the one in which the brood chamber can be divided in two, horizontally; that is, it consists of two storeys, half the depth of the Langstock frame, and the brood chamber can, therefore, be