

of a nail. Fill the can with the syrup, put in the top, set the can upside down on the top of the frames. As many cans as the frames will hold can be used at once. The bees will carry the syrup as fast as it leaks out. Of course, an empty hive must be on top of the hive to hold in the heat and to prevent bees from other hives getting at the supply. A Mason jar will do just as well. An excellent top-feeder on the market is known as the Miller. With it 25 pounds of syrup can be fed at one time.

For spring feeding the writer recommends the Doolittle division-board feeder, which is placed in the hive alongside the brood-nest like an ordinary frame. The



Fig. 22. Division-board Feeder.

illustration will show its construction. The sides are made of $\frac{3}{4}$ -inch wood, 5 x 17 $\frac{1}{2}$ inches, rough on the inside to give foothold to the bees. The bottom and end bars are of $\frac{3}{4}$ -inch wood, 1 $\frac{1}{2}$ inches wide. The end bars are 5 inches in length; the bottom bar is 16 $\frac{1}{2}$ inches. Each joint is coated with thick paint before nailing. For the lugs cut two pieces of $\frac{3}{4}$ -inch wood, 1 $\frac{1}{2}$ x 3 $\frac{1}{2}$ inches. From one end of each piece cut a cheek 2 x 1 inch. This feeder will drown bees unless a slat is put inside of it to float on the top of the syrup. To fill the feeder, turn back the quilt sufficiently far, pour in the syrup, then replace the quilt.

FEEDING A POLLEN SUBSTITUTE.

In some parts of the dry belt there is a lack of pollen in the early spring months, so that in the ordinary course brood-raising is seriously hindered. The bee-keeper in such a region can provide a substitute in the form of finely ground, dry, unbolted rye meal, or even ordinary flour, which is set out in shallow troughs or boxes. The layer must be quite thin, otherwise the bees will drown in it. To attract the bees, smear a little honey on the edge of the tray. The boxes must be placed in a warm spot, sheltered from the wind. Continue feeding until the bees cease to use it, which will be when the blossoms provide the real article.

Various methods have been devised for feeding artificial pollen inside the hive, but in practice they are found to be injurious to the welfare of the colony.