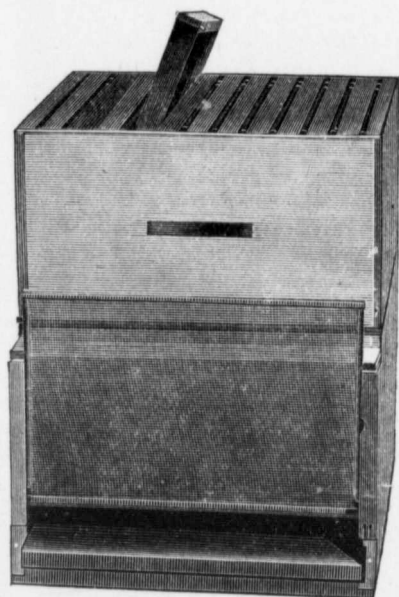


and excludes cold air. It also prevents the coaxing out of bees when the sun is bright but the wind and cold air makes it dangerous for them to take flight. The sun's rays are prevented from reaching the true entrance of the

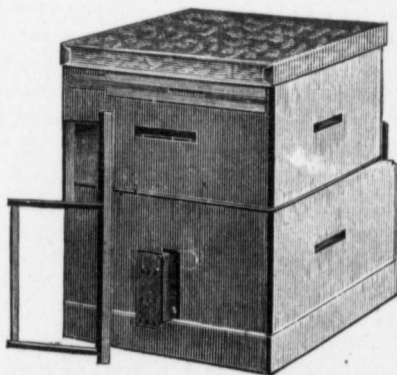


The Holtermann 12 fr. hive, front view showing Portico and Screen

hive. Again, bees in the spring, after having had a cleansing fly, leave the hive largely for the purpose of getting water. By placing in the enclosed portico a section the cells filled with water, especially with a slight flavor of salt, the bees will be less inclined to leave the hive. A little wooden feeder would, of course, answer.

The screen serves a number of purposes. If the bees attempt to rob a stock, and before they are overcome, by sliding the screen into place access to the hive is barred and the attacked stock is isolated, yet has ventilation through the screen and can recover itself. If the robber bees have already gained entrance to the hive the screen must be raised occasionally to allow

the strange bees confined to the hive to leave, or they might feed their own hive bees through the screen. Again, the entire apiary can be confined to their hives for a day or less when some operation is to take place during the robbing season, such as extracting, any bees that are left outside the hive after an operation will not rob, but cluster outside on the screen of their hive. If the day is hot the bees should be watered in the portico occasionally, especially if they are Italian bees, as these bees have when excited the characteristic (peculiar to them alone, as far as I know) of once in a very long while stinging one another to death in the portico. My attention was first drawn to this trait by Mr. Jacob Alpaugh of Galt, Ont. The screen can be used with great success in confining the bees to the hive and portico when they begin to swarm. As long as the queen is not out the bees which have escaped will act in the same way as if the queen had been clipped; that is, return, unless it unites with another



The Holtermann 12 fr. hive, back view showing Feeder.

swarm. In this case the bees cluster on the screen. After, the bees have returned to a normal condition the hive can be examined and shaken, or cells broken down; in fact, if shaken before the bees have emptied their honey sacks,