

produce. That is the potato planter that is used almost universally in the United States and abroad to-day. So that the hidden things in nature are the things that come very slowly to us.

In the matter of the non-swarming hive the question of room is one important thing, and while I will not give you the details of the hive fully, because of other patents that are to be applied for within a very short time, I will say that I use slatted frames inserted between the regular combs of brood, using usually seven to a hive, sometimes six, sometimes five. Seven is about the best number, as I have already experimented with numbers from five to eight or ten. My hive is made to hold fifteen frames. In the month of May, during apple bloom, or rather during the bloom of the sugar maple and willow, the seven combs upon which the colony is wintered is extended by adding one at a time or two, according to the strength of the colony. By the time apple bloom is through many of my colonies have twelve frames most of which are filled with brood. Sometimes I have colonies that will fill nearly fourteen. Of course, my hives are packed so as to winter in the open air. This packing is left on until perhaps the end of the apple bloom sometimes earlier, according to the temperature. The tray is left on to the last. Just at the opening of the main honey flow these slatted frames are placed at once between and outside of the seven combs, speaking for the large number I use now. That gives an outside ventilating space and standing room for the bees as well as inside. It is very important we keep the outside, where the sun strikes cool by an intervening space. My sections are supplied with slatted separators the same as below. So I spread out over fifteen combs—these include the seven and eight slatted frame—nine rows of sec-

tions. The bees are entirely devoid of the swarming impulse under this spreading condition. We all know that the cause of swarming is the bees. If we have a weak colony that does not cover the combs, it will not swarm. If we reduce that condition at the start we have deferred the swarming impulse somewhat. Then putting on 36 sections, when they are well started in that raise that super and put 36 more under, and we have 72 sections; and I have found by experimenting with lesser and greater number that 72 sections is necessary for a colony of 50,000 bees in order to prevent swarming. Now you see, gentlemen, we have made the placing of sections upon this hive compulsory to overcome swarming. I use full sheets of foundation. Should I stop one week in the honey flow there would be one factor present itself and would not prevent swarming, and that is the clogging of the hive with honey. There would not be sufficient room to give employment for all the comb builders.

Many of you are perhaps aware that in the economy of the hive at a certain age the bees take to the fields. If there is an insufficient number of workers the younger ones will leave for the fields perhaps a few days sooner than their natural time for leaving the hive. I know from experimenting that many young bees are drawn out of the hive at twelve and thirteen days old, simply because we have forced the bees in that direction.

Now, the paper that was read was by the writer of an article presented the "Review" in November, and treated the subject of controlling increase largely by the feeding of larval food. I think he has gone into it a little blindly, with all due respect to him, because the bees adapt themselves largely to circumstances in reference to working either for comb or extra honey.

Now, ladies are given in brief the of working. I w and any questions will be very please

Mr. Bortz—Do y cluder between yo nest?

Mr. Aspinwall—N Mr. Bortz—Does combs supplied wi during the time yo frames?

Mr. Aspinwall—S Mr. Bortz—So th does not increase w ed frames?

Mr. Aspinwall—N ing of the brood. from 35 colonies th of 128 sections fille

Mr. Pettit—What those slatted fra Mr. Aspinwall—¾ per; an inch and a compartment.

The President—Fo are you tried this n

Mr. Aspinwall—I h out ten years, but ed to many modifi

The President—Ho ed it on that many

Mr. Aspinwall—My on between 40 a er for ten years, a al change of mak

place. Next ye

hives again, like the best last sea

The President—How

winter on?

Mr. Aspinwall—Sev

Mr. Whitney—Do y ally?

Mr. Aspinwall—Yes the drones that

section boxes, and of the brood nest in