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one corner. This too allows the air to pass upward through the hive. Dry leaves are now packed loosely about the hives, and ten to twelve inches on top, the last five or six inches of top packing being put in on Nov. 27th. In four cases planed shavings were used. While these answered well, I would give the preference to the leaves. At the same time, a board ten inches wide was placed in a slanting position against the outer case, protecting the entrance in the wintering case.

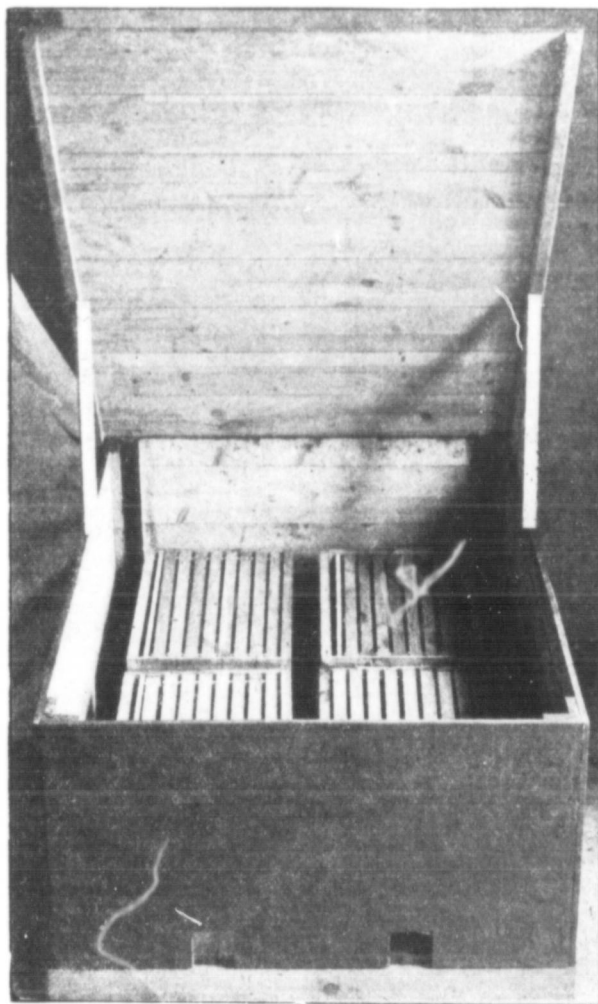


Fig. 4. Outer case containing four hives.

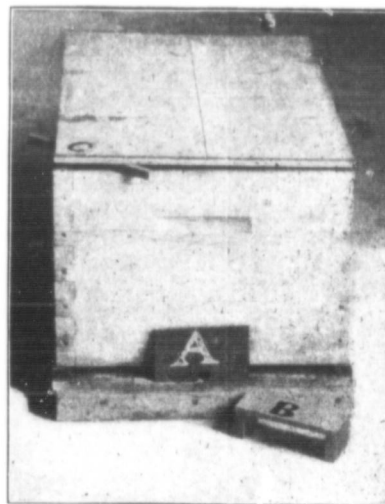


Fig. 5. Hive, showing—A, card with entrance—B, bridge which goes in front of card and on alighting board—C, block under honey board leaving space for upward ventilation.

The object in having the small entrance is to prevent rapid changes of air in the hive, and in the same way prevent loss of heat generated by the bees. It also keeps the air at the bottom of the hive warm enough to enable the bees to go down and keep the entrance clean. The board leaning against the outer case was placed there to prevent snow from falling against the entrance—also to keep the bees quiet by excluding light, and, to a certain extent, wind.

The opening between the honey board or quilt and the hive allows the air to pass gradually up and through the loose leaves taking all moisture with it. With the small entrance I consider this exceedingly important. The forest leaves are packed somewhat