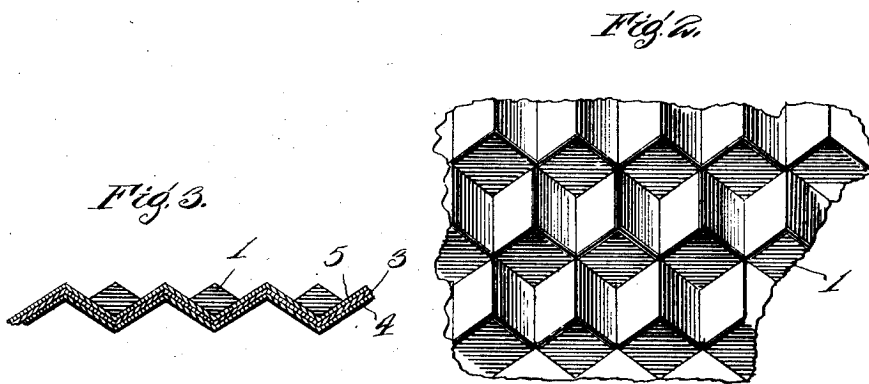
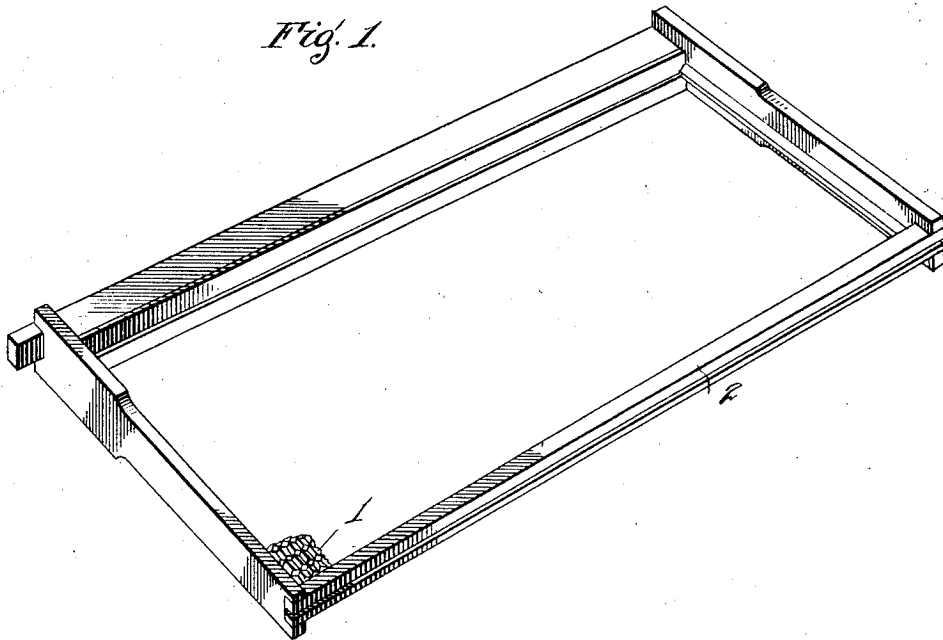


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H. L. SETTLE  
HONEYCOMB FOUNDATION  
Filed March 1, 1927



WITNESSES  
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# UNITED STATES PATENT OFFICE.

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## HONEYCOMB FOUNDATION.

Application filed March 1, 1927. Serial No. 171,827.

This invention relates to the art of bee culture generally and more specifically to a honey comb foundation particularly adapted for use with those types of extracting frames known to the trade and bee keepers as "brood" or "extracting" frames.

These articles are now made for general use by bee supply houses from bees wax, this constituting the "starter" for the bees to draw out full combs. However, they are open to the objections and disadvantages in that they will not withstand the hot summer weather nor the strain of the high speed used in the extraction process.

The present invention further seeks to improve upon the prior provisions in foundation structures by employing a tough composition sheet of hard fiber in the place of the wax and other foundation structures of other and different materials heretofore known or employed in the practice.

Reference is had to the accompanying drawings, in which:—

Figure 1 shows in perspective the application of the invention,

Figure 2 shows a fragmentary perspective view of the structure, and

Figure 3 is a sectional view taken vertically through the foundation per se.

From the drawings it will be seen that the comb foundation 1 is mounted in a frame 2 in the usual fashion, and that the same is formed as a composite structure comprising members 4 and 5 upon a central core 3.

This core 3 is formed of tough composition sheet of hard fiber readily obtainable

on the open market and to form the structure desired the sheet 3 is coated on each side with a layer of wax 4 and 5, the cell impressions of the comb foundation being then milled into the coated fiber, similar to the milling operation where wax sheets are employed for this purpose.

The structure of the present application has the advantages that the bees accept it quickly, there are no drone cells, it will not melt down in the hottest weather, it will not sag or stretch, it is never gnawed by bees. It will not crack or jar loose in transportation, moths can not destroy it, mice will not gnaw through it. It will hold up under excessively high speeds used in the extraction, it is not affected by soaking in disinfectant solutions or in water, and hard and glazed-over pollen may be scraped and cut away without injury to the foundation.

I claim:—

1. A honey comb foundation comprising a tough composition sheet of hard fiber.

2. A honey comb foundation comprising a tough composition sheet of hard fiber coated with wax.

3. The process of making honey comb foundations which comprises coating a tough composition sheet of hard fiber with wax, and milling the cell impressions of comb foundation depth therein.

Signed at Payette, Idaho, this 24th day of February, 1927.

HOMER L. SETTLE.