

T. AKASHI.
 BEEHIVE ATTACHMENT.
 APPLICATION FILED MAR. 7, 1917.

1,247,607.

Patented Nov. 27, 1917.

FIG. 1.

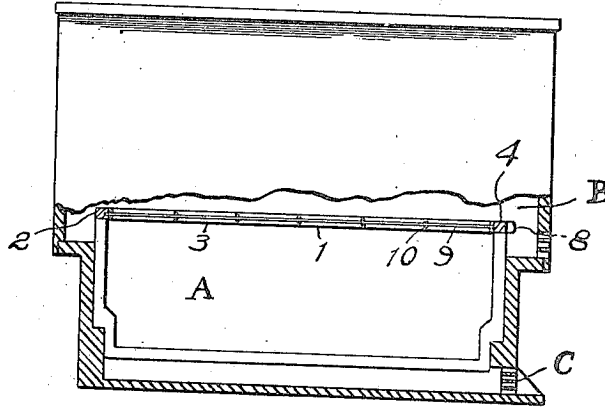


FIG. 2.

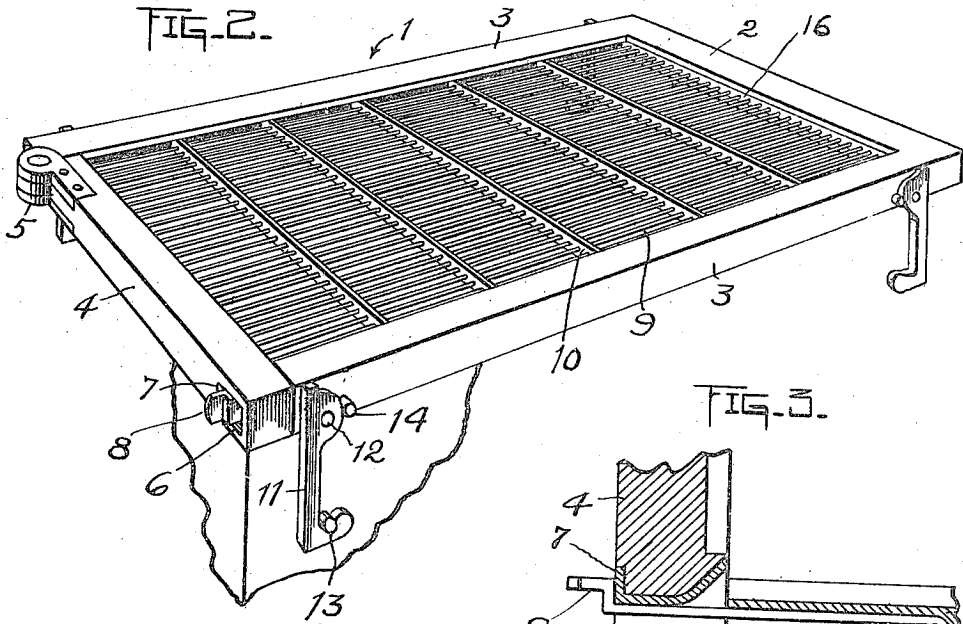
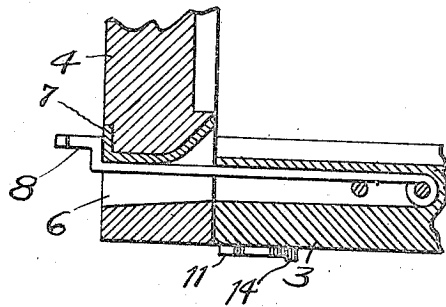


FIG. 3.



INVENTOR

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, TOKUTARO AKASHI, a subject of the Emperor of Japan, residing at La Mirada, in the county of Los Angeles and State of California, have invented new and useful Improvements in Beehive Attachments, of which the following is a specification.

This invention relates particularly to a slatted frame adapted to be placed between the brood apartment and the comb honey storage chamber of a beehive, to control, regulate, and restrain the queen bees, and prevent their exit from the hive or their passage from the brood apartment to the storage chamber.

The objects of the invention are, to prevent exit of the queens from the hive, to allow only the workers to enter the storage chamber, to overcome the tendency to swarm, and to provide a device, which, while excluding the queens from the storage chamber, will allow ready access of the workers thereto.

Another object of the invention is to provide a means for quick and easy renewal or replacement of the parts of a honey board, to provide a means for securing the same in a hive, and to provide a means for handling of the honey board when removed.

With these objects in view, I construct my attachment with a frame having one end hinged so that it may be swung outward for insertion or removal of the spaced apart slats therein, and with latch means for securing the frame within a hive.

Other objects and advantages may appear from the subjoined detail description.

In the drawings: Figure 1 is a vertical section of a hive with my improved attachment emplaced therein; Fig. 2 is a perspective detail of the attachment; and Fig. 3 is a sectional detail showing the latch which secures the swing end of the frame.

Referring to the drawings: A hive of ordinary construction is shown, having the brood chamber A and the storage chamber B; the hive being provided with an entrance C comprising spaces of a width to permit the passage of worker bees which are smaller than the queens and drones.

At the top of the brood chamber a honey board embodying my invention, is attached, the construction thereof, comprising a horizontal rectangular frame 1, having a perforated inner end 2, and grooved sides 3. The

swing end 4 is also provided with a perforated inner edge, and is pivoted to the frame by the hinge 5. Member 4 has a slot 6 at its free end, which may be faced with a metal strip 7. A spring latch 8, fixed to the frame, passes through slot 6, and engages with said swing member 4, retaining the same in closed position to form a rectangular frame. From end to end of the frame, a series of parallel wooden rods 9, extend, the same being spaced apart by the spacing bars 10.

At each corner of frame 1, I have provided latch members 11, which swing upon the pivots 12, and which serve, when in engagement with latch pins 13, to retain the frame in position within the hive.

That the frame may be handled with greater facility when detached, I have provided stop pins 14, with which the latch members 11 engage when opened outward. The honey board may therefore, be readily handled for removal of honey comb which may have been deposited thereon.

The bars 9, 10, extend within the perforations 16 of the frame. To remove a bar which may have become broken or damaged, the latch 8 may be released, and the swing member 4, opened outward. The broken bars may then be replaced, as the bars 9 are formed to slide within the spacing members 10. The bars 9 are preferably round and smooth and therefore do not injure the bees as they pass through the spaces. The bars 9 are relatively small in cross-section, and thus render the storage compartment more easy of access to the worker bees, which will be conducive to the accumulation of honey therein.

What is claimed is:

1. A honey board comprising a rectangular frame, having a perforated inner edge, a swing end thereon which is hinged to the frame and arranged to open outward, a series of longitudinal bars disposed therein, transverse spacing members within the frame adapted to hold the longitudinal bars in parallel relation, and means to secure the frame in a hive.

2. A honey board, comprising a rectangular frame, a swing end hinged to open outward, longitudinally disposed slats therein, and spacing bars to hold the slats in parallel alinement.

3. A honey board, comprising a rectangular frame, longitudinally disposed slats therein engaging with said grooved edges,

and spacing bars to hold the slats in parallel alinement, said slats being slidable within the spacing bars.

4. A honey board, comprising a rectangular frame, a series of longitudinal bars disposed therein, spacing members to hold the bars in parallel alinement, said bars being detachable from the spacing members and from the frame, and means for removing said spacing members separately from the bars and from the frame.

5. A honey board, comprising a rectangular frame, a series of longitudinal bars disposed therein and detachable therefrom, and a series of spacing members extending transversely in the frame and maintaining the bars in parallel relation, and said bars being removable separately.

6. A honey board, comprising a rectangular frame, a series of detachable slats disposed therein, swing latches to retain the frame in a hive, and stop-pins for the latches in the extended position, whereby the latches serve as handles for the frame when detached from the hive.

7. A honey board, comprising a rectan-

gular frame, a swing latch pivotally mounted adjacent to each corner, said latches being adapted to secure the frame in a hive, and stop pins on the frame to determine the extended position of said latches, whereby said latches serve as handles for the frame.

8. A honey board, comprising a rectangular frame, a series of longitudinal bars disposed therein, and transverse spacing bars to hold the longitudinal bars in parallel alinement, said bars being detachable, each from the other, and from the frame.

9. The combination with a rectangular frame, of means to secure the frame in a hive, longitudinal slats disposed within the frame, means to maintain the slats in parallelism, means to secure the slats within the frame, and means for opening the frame to remove the slats.

In testimony whereof, I hereunto affix my signature, this 26th day of February, 1917.

TOKUTARO AKASHI.

Witnesses:

FREDERIC M. KEENEY,
MASAYASHI KAJIMA.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."