

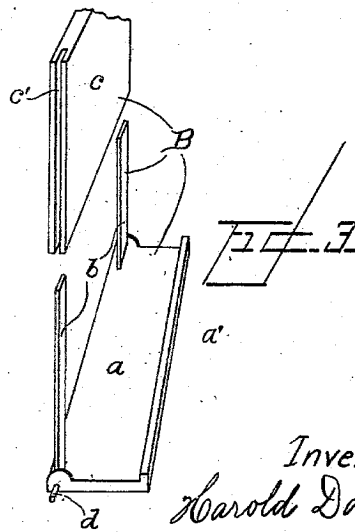
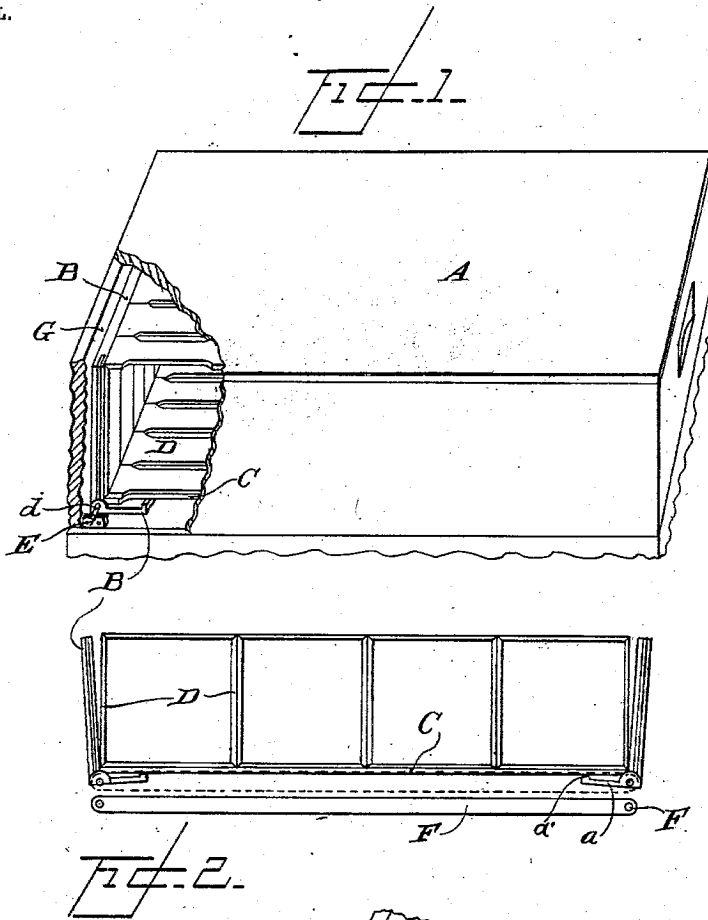
No. 758,203.

PATENTED APR. 26, 1904.

H. DAVENES,
BEEHIVE.

APPLICATION FILED JUNE 19, 1903.

NO MODEL.



Witnesses
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UNITED STATES PATENT OFFICE.

HAROLD DAVENES, OF SIERRA MADRE, CALIFORNIA.

BEEHIVE.

SPECIFICATION forming part of Letters Patent No. 758,203, dated April 26, 1904.

Application filed June 19, 1903. Serial No. 162,233. (No model.)

To all whom it may concern:

Be it known that I, HAROLD DAVENES, a citizen of Great Britain, residing at Sierra Madre, in the county of Los Angeles and State of California, have invented new and useful Improvements in Beehives, of which the following is a specification.

My invention is especially designed for that class of beehives in which the honey is stored by the bees in honey frames or sections; and the object thereof is to provide an improved frame binder and rest or support for the honey-frames which will keep the edges of such frames in such close proximity to each other as to preclude any desire on the part of the bees to bee-gum any interstices between the frames, or rather to prevent any interstices being formed, to provide ready means to easily remove any frame in a row or any row of frames without disturbing any other frame, and to provide means whereby all the frames in a hive may be removed in a body.

In the drawings, Figure 1 is a perspective view of a portion of a hive, partly in elevation and partly in section, provided with my improved frame binder and rest. Fig. 2 is an edge view of the binder and rest and a row of frames and a retaining-strip. Fig. 3 is a perspective view of one of the binders and rests with the parts detached from each other.

A is the outer shell of the hive, and B is the frame binder and rest, which supports the base-strips C, on which the removable honey frames or sections D rest, and which binds said frames together. The honey-frames may be of any approved construction. Rest B is preferably formed of a metallic base *a*, having a ledge *a'* along the inner edge thereof upon which the strips C rest when in place in the hive. A standard *b* at each end of the base near the back thereof holds the removable back *c*, which back is provided with grooves *c'*, which slip over these standards. The standards are preferably cast integral with the base. The base is provided with pivotal bolts or pins *d* on a line with the center of the standard, which pins rest upon supports E, affixed to the sides of hive, one near each corner. These supports are preferably removably attached by screws, (not shown,) so that the frame binder

and rest may be easily moved in the hive to adjust them for binding and supporting frames of different sizes.

If desired, the frame binder and rest could be made of wood; but I prefer a metal base and a wooden back, as it is less likely to warp than if made wholly of wood.

To keep the rests at each end of the hive from separating in case it is desired to remove the rests and all the frames from the hive at one time, I have provided retaining-strips F, preferably of zinc, shown in dotted lines and in full lines below the rests in Fig. 2. These strips have holes F' in each end, which slip over the pins of the rest, and as there is a strip on each side it will be seen that when the rests are removed from the hive these strips keep them from separating.

It will be observed that there is a space G between the end of the hive and the back of the binder and rest, which permits the top of the back thereof to be drawn out of the perpendicular at each end for the insertion or removal of the frames, as shown in Fig. 2, and that when the frames are placed on the supporting-strips their weight comes upon the ledge *a'* of the base, thereby causing the back to firmly grip the frames and hold them in such close contact that no interstices appear therebetween. These rests and binders are spaced apart, so that when the backs thereof assume the perpendicular the frames form a continuous line at both the top and bottom. The adjustability of the support for the pins of the rests affords easy means to effect this.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a beehive a binder and rest for the honey-frames comprising a base having an upwardly-projecting ledge adapted to support the frame, said rest having a back adapted to bear against the frame, a pin at each end thereof at or near the junction of the base and back and means to support said pins.

2. In a beehive an L-shaped honey-frame binder and rest pivotally secured at or near the junction of the base and back thereof in the hive.

3. In a beehive the combination of two L-

shaped honey-frame binders and rests having pivotal bolts at the ends thereof at or near the junction of the back and base, with supports secured to the hive to support said pivotal bolts.

4. In a beehive the combination of two L-shaped honey-frame binders and rests having pivotal bolts at the ends thereof at the junction of the base and back; with supports secured to the outer casing of the hive, said supports being adapted for the removal therefrom of said pivots.

5. In a beehive the combination of two L-shaped honey-frame binders and rests having

pivotal bolts at the ends thereof at the junction of the base and back; with supports secured to the outer casing of the hive, said supports being adapted for the removal therefrom of said pivots; strips surrounding and extending from the oppositely-disposed pivots of said rests.

In witness that I claim the foregoing I have hereunto subscribed my name this 13th day of June, 1903.

HAROLD DAVENES.

Witnesses:

G. E. HARPHAM,

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