

(Model.)

2 Sheets—Sheet 1.

G. K. HUBBARD.

BEE HIVE.

No. 270,803.

Patented Jan. 16, 1883.

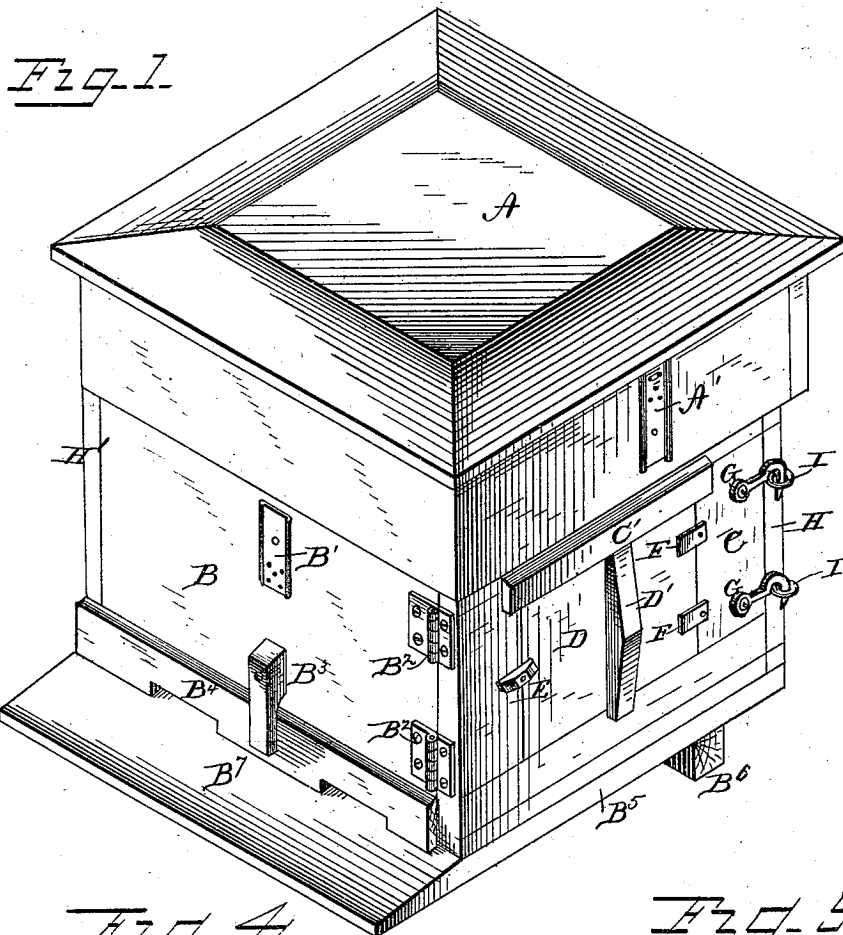


Fig. 4

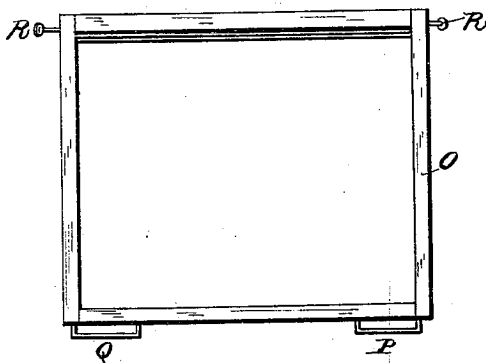


Fig. 5

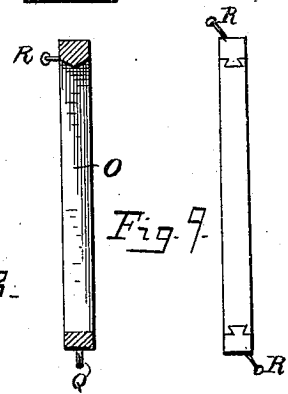


Fig. 7

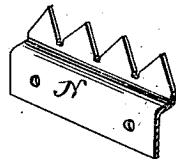
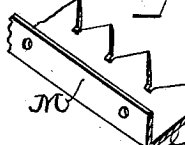


Fig. 8



WITNESSES
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(Model.)

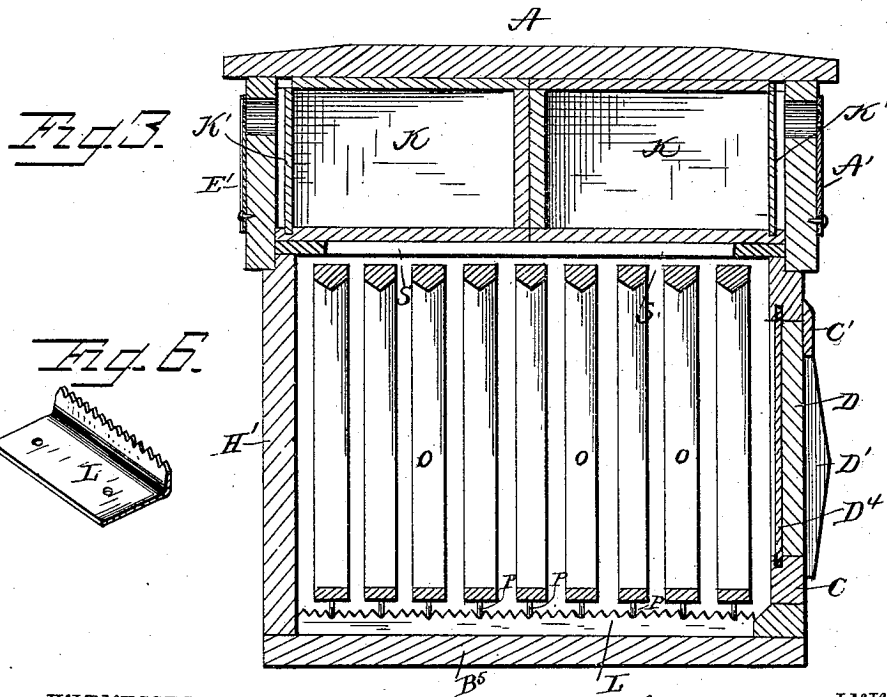
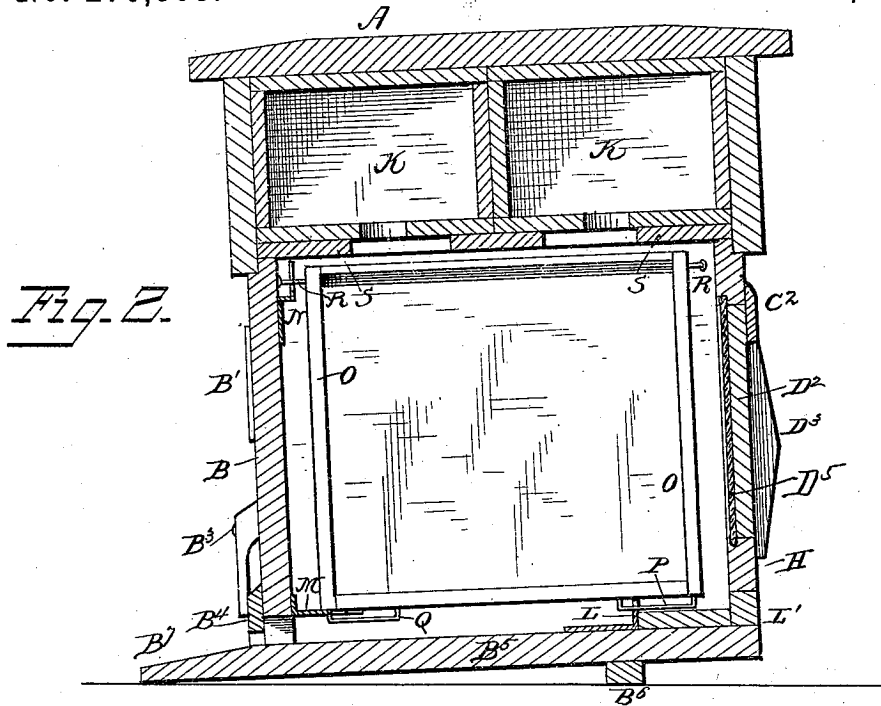
2 Sheets—Sheet 2.

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WITNESSES
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of front piece, B, near the top of the hive, the notched part projecting upward. It is adapted to engage and secure the frame-pins.

O O represent the honey-comb frames.

5 P and Q are two rectangular metallic loops on the under side of the frame—front and rear, respectively.

10 R Rare two pins on the front and back pieces, respectively, of the frame, driven in slightly angular to facilitate the swinging of the frames when the side door, C, is opened. By means of the pins and loops on the frames, said frames are secured in position in the hive and rendered susceptible of adjustment in the notched strips.

15 By driving the pins into the sides of the frame obliquely said frames can be more easily swung out, and will swing round farther than if they were driven in straight. When the frames are thus hung there is no danger of killing the
20 bees when the frames are swung out. If the pins were driven straight into the middle of the end pieces of the frame, the corners of the frame would catch and prevent the swinging of the same.

25 I am aware that hives in some respects similar to mine have been patented, in one of which the frames are held in place, both above and below, at the front side of the hive, by hooks and screw-eyes. I have provided my
30 hive with a notched tin, M, in which the outer end of the staple Q in bottom of frame is securely held. The advantage of this over the hive referred to is that, instead of having to look carefully and to exercise a great amount
35 of patience to get the bottom properly hooked, my frame will drop into its place below after being properly placed in its bearing N above. The advantage of this is, instead of having to brush the bees away from around the bearings
40 and search carefully for the place to hang the frame, in my device I get it near where it belongs and the frame instantly places itself; and, again, instead of the wooden ledge that supports the frame at the bottom, at the rear
45 end of the hive, as in the hive referred to, I have a very fine notched tin, L, that supports the frame by means of the staple P in the bottom. The advantage is, wherever the wooden
50 part of a frame touches the wooden part of the hive the bees will gum it fast with propolis, making it difficult to remove it; but they show a natural aversion to metal. However, they will sometimes wax up metal; but even if they should the bearings are too delicate to

55 permit their being waxed to the extent they would be if the whole end of the frame rested upon a wooden support.

The distance between the frames in my hive can be varied. The advantage is, the combs vary in thickness, and it frequently happens
60 that one wishes to put two thin ones close together to make room for a thicker one. By reason of the fine-notched tin L, which supports the rear end of frames, said frames can be accommodated to the irregularities of the
65 comb. If the hive should be tipped sidewise, the notched plates would prevent the frames from swinging out of place.

Both ends of my frame being constructed in a similar manner, it must be obvious that
70 said frame can be easily reversed. This is frequently desirable. When the comb becomes bulged in places, and in exchanging combs from one hive to another, two of these thick
75 places would often come together, making it very inconvenient to fit in the frame; but by being able to reverse the comb the trouble is avoided. Another advantage derived from having an exchangeable and reversible frame
80 is, that one can put the queen-cell on the side next the window, and can thus readily learn the day the queen will emerge without disturbing the colony.

Having thus described my invention and set forth its advantages, I claim as new and desire
85 to secure by Letters Patent—

1. In a bee-hive, the fine-notched plate L, fixed to the bottom board and abutting against the ledge L', and the coarse-notched plates M and N, fixed to the inside of face-board B, said
90 plates being adapted to engage the metal parts on frames O, for the purposes specified.

2. The frames O, provided with bottom staples, P Q, and oblique end pins, R R, substantially as described, and for the purposes set
95 forth.

3. The frames O, provided with bottom staples, P Q, and oblique pins R R, in combination with the notched plates L, M, and N, substantially as described, and for the purposes
100 set forth.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE K. HUBBARD.

Witnesses:

C. S. STROUSS,

CASSIUS M. C. GRIFFITH.