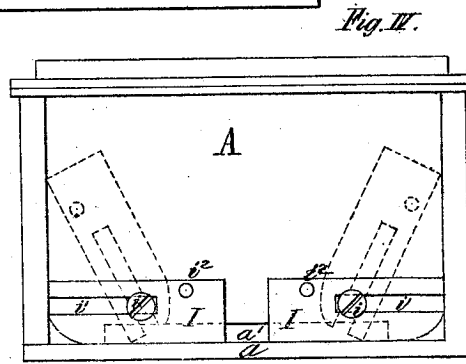
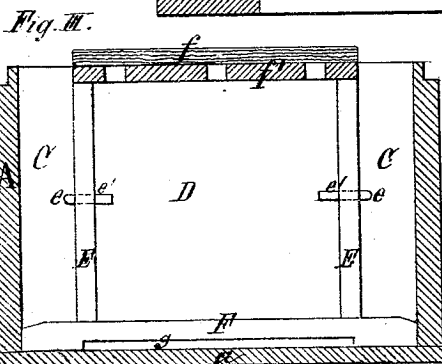
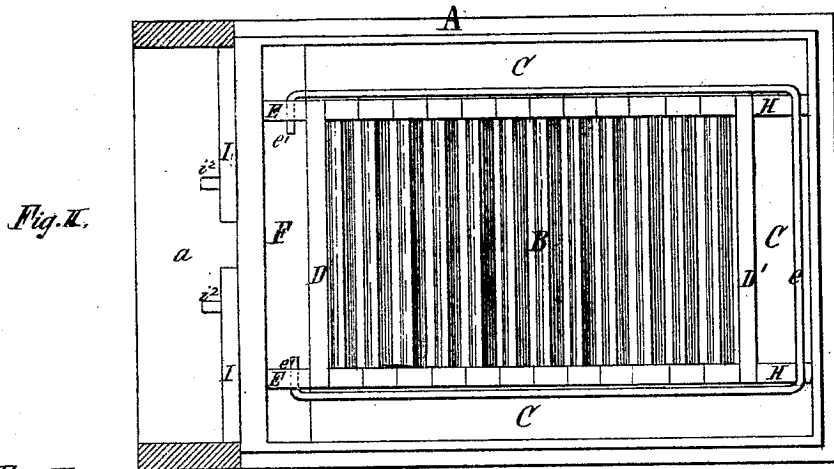
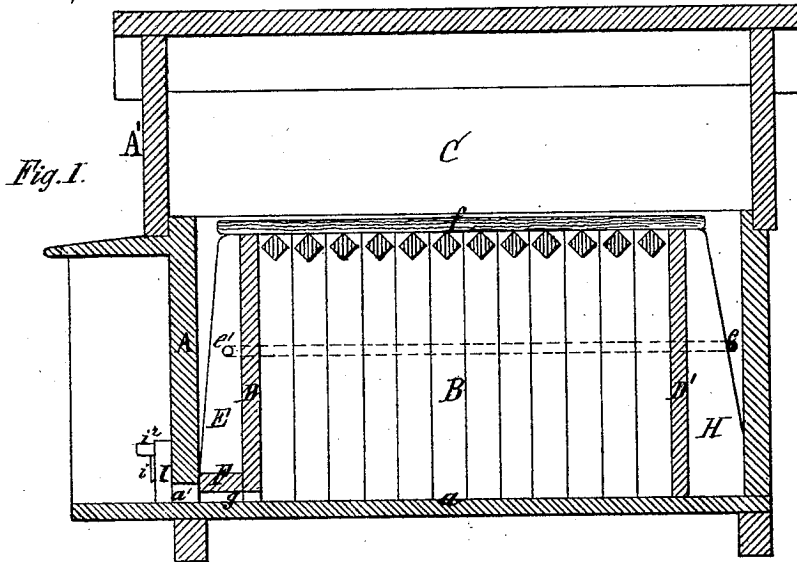


J. M. BEEBE.

Improvement in Bee-Hives.

No. 130,101.

Patented Aug. 6, 1872.



James B. Brown  
Edward Wilhelm  
Witnesses

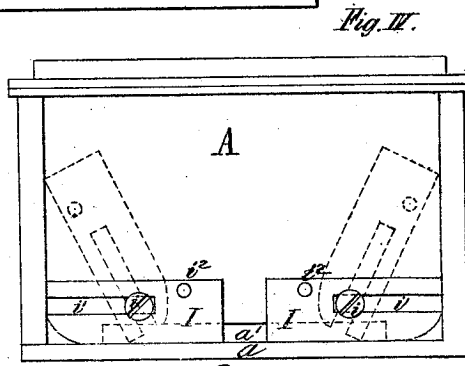
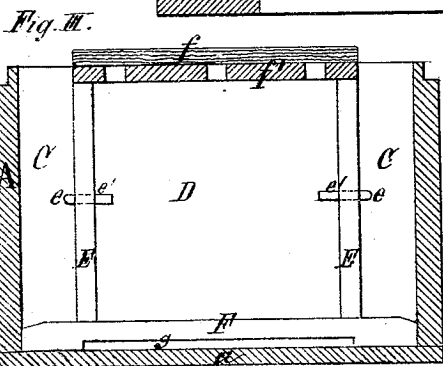
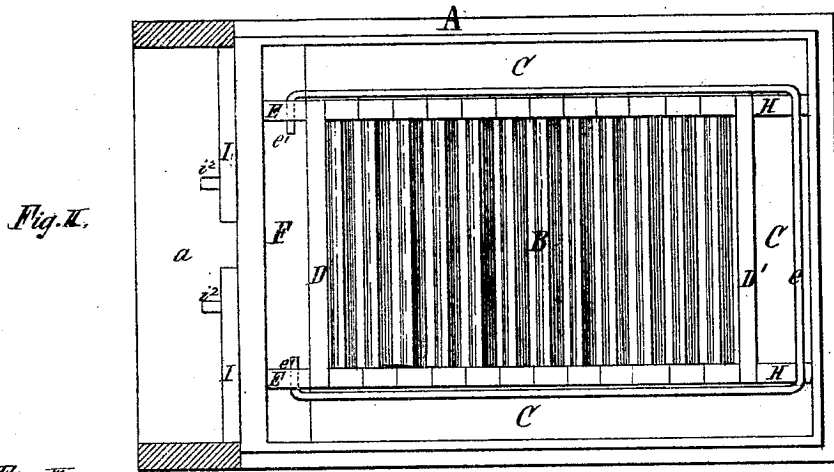
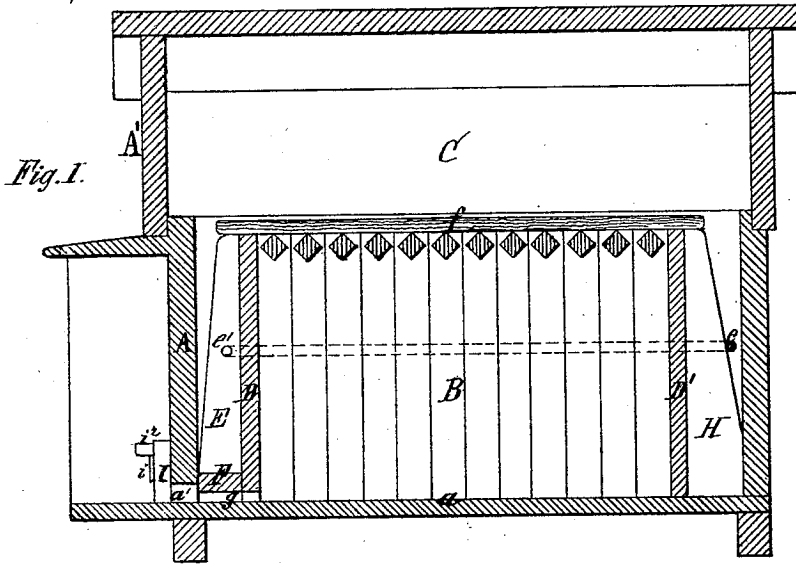
James M. Beebe ..... Inventor  
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pivots so as to cover a greater or less portion of said passage, or entirely close the same, as may be desired, the lower corner of each door being rounded, as shown, to permit of its being turned up at right angles.

In the accompanying drawing, A A' represent the outer case, *a* the bottom, and *a'* the aperture in the front thereof. B represents the comb-frames of the inner hive; C, the packing material surrounding the same; D D', the front and rear end board of the inner hive; and *e*, the wire bail securing the parts of the latter together. All of these parts are old and well known. *f* represents the piece of felt arranged on the top of the inner hive in winter so as to cover the apertures thereof. It is an excellent material for protecting the inner hive against cold, while answering all the other requirements hereinbefore stated, as I have found by the experience of two winters. The slotted board *f'*, which is interposed in summer between the comb-frames and the auxiliary honey boxes, may either be retained in winter and the felt placed upon the same, as shown in Fig. III, or it may be removed with said honey-boxes. E E represent the upright standards or braces, to which the front end board D is secured; and F, the bridge-piece connecting the standards E at the bottom, and fitting snugly between the sides of the outer case. The bridge-piece F and end board D are provided at the under side with a recess or passage-way, *g*, forming a continuation of the aperture *a'* into the inner hive, which passage is obviously protected against becoming closed by the packing material. The wire bail *e* is pivoted to the standards E, as shown at *e'*. H H represent two tapering or wedge-shaped standards secured to the outside of the rear end board D' at each end, as clearly shown in Figs. I and II. By engaging the rectangular outer end of the bail over the wedges H H and pressing the same downward the end pieces and intervening comb-frames are securely clamped together. The two wedges H engage in the corners of the bail *e*, whereby

the springing of the bail, incidental to the use of the single wedge in the middle, is entirely prevented. I I represent the two doors or gates, arranged on the front of the case A for the purpose of regulating the size of the passage *a'*. They are each pivoted to the case by a screw, *i*, passing through a horizontal slot, *i'*, in the door, and provided with a handle, *i''*. When the passage *a'* is required to be fully opened to admit air freely into the hive, as in hot weather, the gates I are swung upward, as shown in dotted lines, Fig. IV. When only a small portion of the aperture *a'*, sufficient for the passage of the bees, is required to be uncovered, as in spring and fall, the doors I are arranged resting on the bottom *a*, as shown in full lines, Fig. IV, and adjusted by sliding them toward each other. It is obvious that the aperture *a'* is entirely closed by bringing the doors I together in the middle, in which position they may be secured for the cold season by tightening the pivot-screws *i*.

I claim as my invention—

1. The combination, with the outer case, the inner hive B, and surrounding packing material C, of the felt *f*, interposed between the packing material and the top of the inner hive, substantially as and for the purpose hereinbefore set forth.

2. The combination, with the comb-frames B and wire bail *e*, of the front end board D, upright braces E E, and bridge F, rigidly secured together, and the rear end piece D' provided with two wedge-shaped standards, H H, substantially as and for the purpose hereinbefore set forth.

3. The combination, with the outer passage *a'*, of the doors I I, provided with horizontal slots *i'* and pivots *i*, so arranged that the doors can be swung on said pivots or adjusted by sliding, substantially as hereinbefore set forth.

JAMES M. BEEBE.

Witnesses:

EUGENE A. CUMMINGS,  
CHARLES V. BEEBE.