

J. & W. BARNES.
Bee-Hives.

No. 149,973.

Patented April 21, 1874.

Fig. 1.

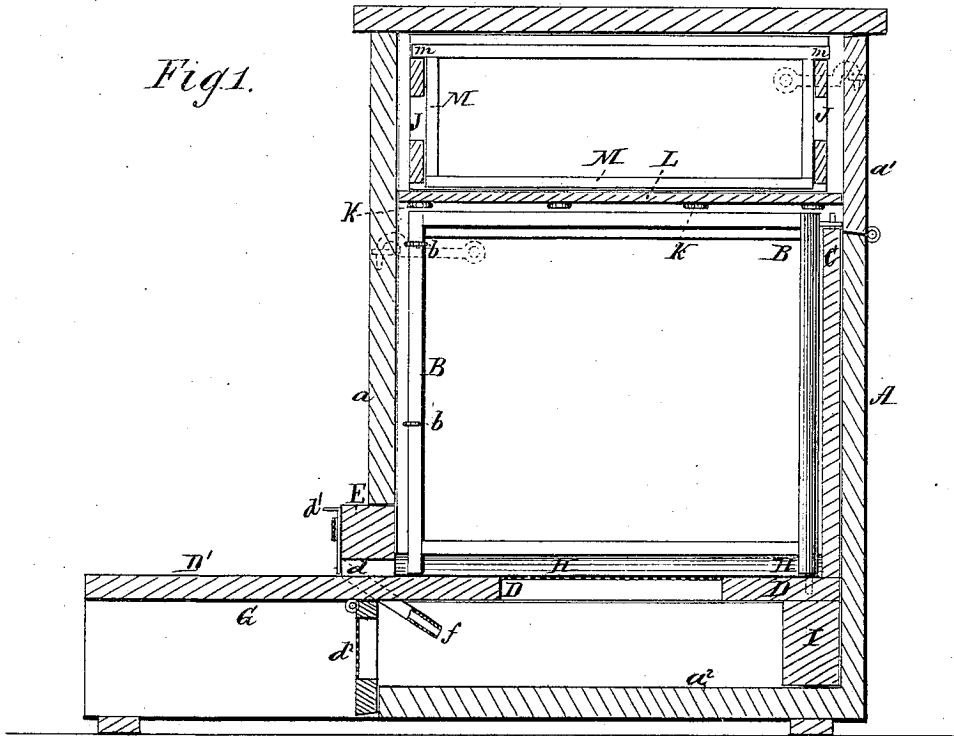
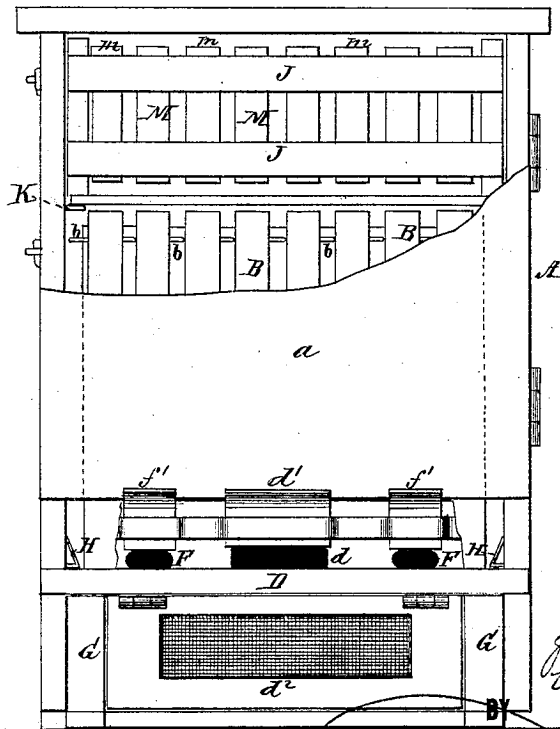


Fig. 2.



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JOSIAH BARNES AND WILLIAM BARNES, OF KANSAS CITY, KANSAS.

IMPROVEMENT IN BEE-HIVES.

Specification forming part of Letters Patent No. 149,973, dated April 21, 1874; application filed March 5, 1874.

To all whom it may concern:

Be it known that we, JOSIAH BARNES and WILLIAM BARNES, of Kansas City, in the county of Jackson and State of Missouri, have invented a new and Improved Bee-Hive; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a vertical sectional elevation; Fig. 2, a front elevation, partly broken away.

The invention relates to that class of bee-hives provided with main and auxiliary or surplus honey-frames; and consists in improving said hives, as hereinafter fully described, and subsequently pointed out in the claims.

A represents a hive-box, having the front door *a* and the back door *a'*. B are the main honey-frames, spaced by the lateral eyes or projections *b*, and pivoted against the back board or riser C of a reticulated or wire-frame false bottom, D. The bottom D extends out in front to form the platform D', has a "cut-out," *d*, for the bee-entrance, and receives the cross-piece E, the platform and bottom being each recessed to form the inclined moth-avenues F F, that have below them tubular continuations *f f*. Over the bee and moth entrances are arranged slides *d' f'*, to admit of graduating the size of apertures and of closing them. G G are the rails on which bottom D slides, and H H strips placed thereover on the sides of box A, to prevent the bees from waxing between the slide D and the sides of hive. At the rear end of slide-bottom D is subjacently located a scraper, I, that fits between the rails G G, and close to the case-bottom *a''*. The droppings of the bees upon this bottom are, therefore, removed whenever the honey-frames are drawn out on the slide. *a''* is a hinged and reticulated gate, which closes the front of air-chamber formed between the false and true bottoms. The air, passing through the reticulations of this gate, and through those of false bottom D, finds its way through all parts

of the hive, and thus preserves the health of the bees. J is a sliding case, open at top and bottom, and supported near the upper part of box A, over the main honey-frames, and upon eyes or side projections K, while L is a removable plate or board, that may separate the small or surplus honey-frames M from the main ones B when so desired. The honey-frames M have extension ends *m m*, that rest upon the sides of case J, and thus suspend them on the inside of said case.

By this construction and arrangement of the essential parts of a bee-hive, great convenience is attained for its inspection and examination, while the health of the bees and the destruction of the moths are both effectually secured.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. A false bottom, D, having the main honey-frames attached to a riser thereof, and movable in and out on rails G G, as and for the purpose set forth.
2. The scraper I, attached to the rear end of and combined with a reticulated false bottom, D, that slides in and out over the true bottom *a''* of the hive-box, as and for the purpose specified.
3. The strips H H, arranged over the edges of slide D, to prevent the waxing of joint between slide and box by the bees, as described.
4. The combination, with the main honey-frames in a hive-box, of the superposed case J for surplus honey-frames, made open at top and bottom, and resting on small side projections K, as and for the purpose specified.

JOSIAH BARNES.
WILLIAM BARNES.

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