

W. A. FLANDERS.

Bee Hive.

No. 64,515.

Patented May 7, 1867.

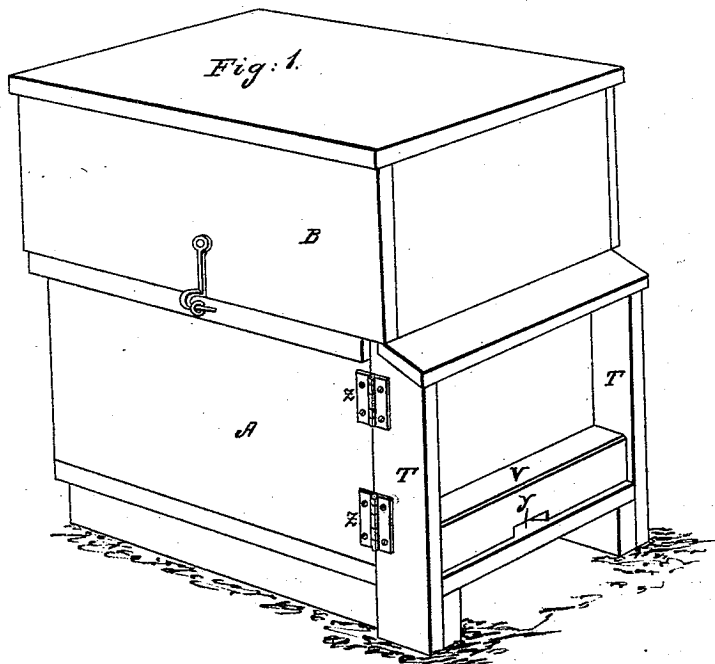


Fig. 2.

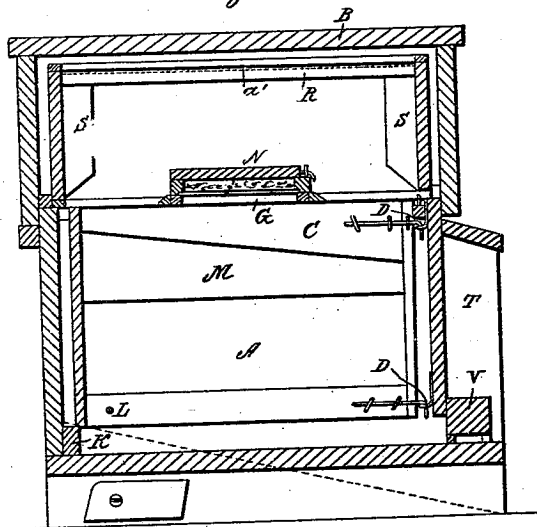
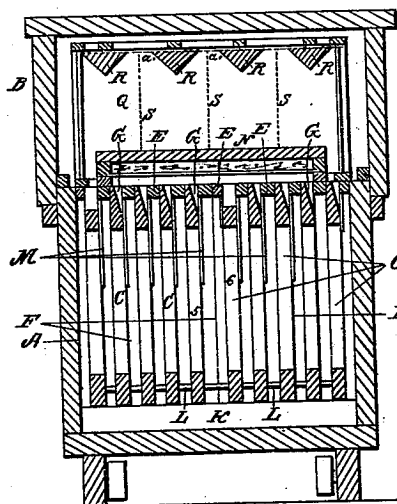


Fig. 3.



Witnesses:

W. H. Burridge,  
J. Holmes.

Inventor:

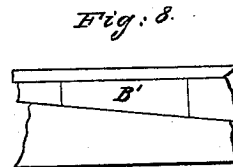
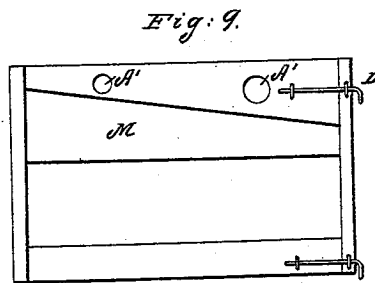
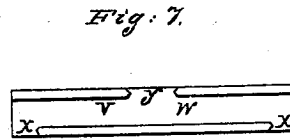
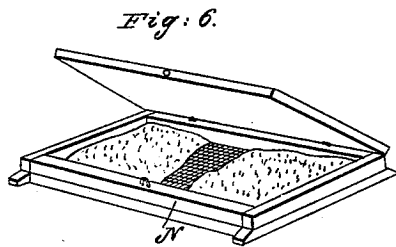
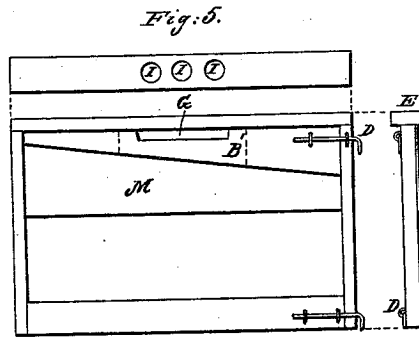
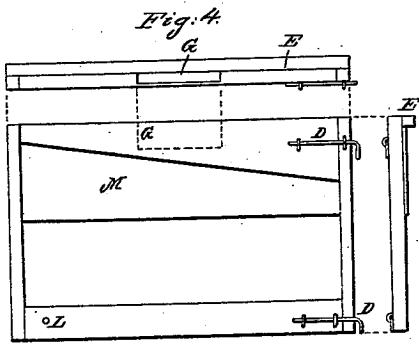
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*J. Holmes.*

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*W. A. Flanders.*

# United States Patent Office.

W. A. FLANDERS, OF SHELBY, OHIO.

Letters Patent No. 64,515, dated May 7, 1867.

## IMPROVEMENT IN BEE-HIVES.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, W. A. FLANDERS, of Shelby, in the county of Richland, and State of Ohio, have invented certain new and useful improvements in Bee-Hives; and I do hereby declare that the following is a full and complete description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view.

Figure 2 is a longitudinal vertical section.

Figure 3 is a transverse section.

Figures 4, 5, 6, 7, 8, and 9, are detached sections, which will be referred to in the description.

Like letters of reference refer to like parts in the different views.

The nature of my improvement relates—

First, to the construction and arrangement of the movable comb-frames of bee-hives in such a manner as to allow the bees to pass from the body or main portion of the hive below into the honey receptacle above, through the top bars of the comb-frames directly into the honey-box, at a proper time and way, without the attention or assistance of the bee-keeper, which also lessens the distance usually required between the hive below and box above.

Second, to the employment of sanded surfaces in the bee-hive and box, where the bees attach or glue the comb and frames together to the sides of the hive and other places where sticking and glueing are not desired.

Third, the arrangement and use of sanded paper comb-guides between the comb-frames, and for the lining of the communicating bee passages through the combs and frames.

Fourth, to an improved mode of ventilating the hive, whereby the bees are protected from the extremes of heat and cold. The sun is excluded from the bee entrance and the interior of the hive, allowing the bees to repose in quiet in the hive while in winter quarters.

Fifth, to the construction and arrangement of the bee entrance of the hive, in such a manner as to greatly assist the bees in protecting the interior of said hive against robber bees, and exclude gusts of wind, snow, rain, dust, &c.

This hive is constructed in two sections, A and B, plate 1, of which A is the body of the hive, and B the chamber, in which is placed the honey-box. In section A is arranged a system of movable comb-frames, C, fig. 3. These frames are hinged to the front side of the hive by the hooks and eyes D, by means of which they may be spread out like the leaves of a book. The position and construction of the hook are such as to allow the removal of the frames by lifting them from the eye, for any purpose required, by the operator, such as making artificial swarms, inspecting the combs, &c. There may be more or less of these frames according to the size of the hive. They consist of a light framework, shown in fig. 4, plate 1.1, in which it will be seen that the frame is provided with a rib, E, running along on one side of the top, and by which the frames are kept apart, thus making spaces between them below this rib, as shown in fig. 3, plate 1, F being the spaces. It will be seen that the frame No. 5 is provided with a space between it and the frame 6, wider than are the others; this space is immediately over the bee-door, thereby giving more room to the bees on entering the hive. By these ribs the tops of the frames are made to fit close together, and thus exclude the bees from the honey-boxes, except when they enter through the passages provided for them, which may be seen at the top of the frames, as shown at G, figs. 4 and 5, plate 1.1, which on the side of the frames is an elongated aperture or passage-way, which may communicate with several holes corresponding to I in the top, and through which the bees pass up into the honey-boxes, or a slot may be continued through the top, as shown at G, figs. 3 and 4. The advantage of having the slot or passage-way through the top bar of the frame, instead of mortising or cutting away the fillet or rib E to form an opening or passage for the bees, admits a strip or piece of paper B', fig. 8, being attached to the side of the top bar of the frame, so as to close up the said passage-way to the boxes above. When the frames are made close-fitting to each other, and the bees compelled to pass through the top bars of the comb-frames, they may be kept out of the honey-boxes above until the lower part of the hive is partially filled. This is necessary and useful, for if they are allowed to go up into the honey-boxes when first hived after swarming, the queen will pass up and remain there, depositing eggs and rearing brood, which greatly injures the spare honey. By my arrangement, paper of any required thickness may be pasted over the holes through the top of the comb-frames, on the side of the top bars, as before stated, in the hive below the boxes, and thus the communications to the boxes above are cut off until the bees have partially or fully completed comb-building below, when they will eat through this paper and go into the honey-boxes above, and fill them with comb and honey, without any attention on the part of the bee-master. I do not confine myself to the peculiar method above described, but claim any method by which the bees may be allowed to pass up through or prevented from passing through the top bars in the manner above described. The under side of the upper rail of the frame is not parallel to the bottom rail, but is tapering in the direction toward the front of the hive, as shown in figs. 4 and 5, the purpose of which

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