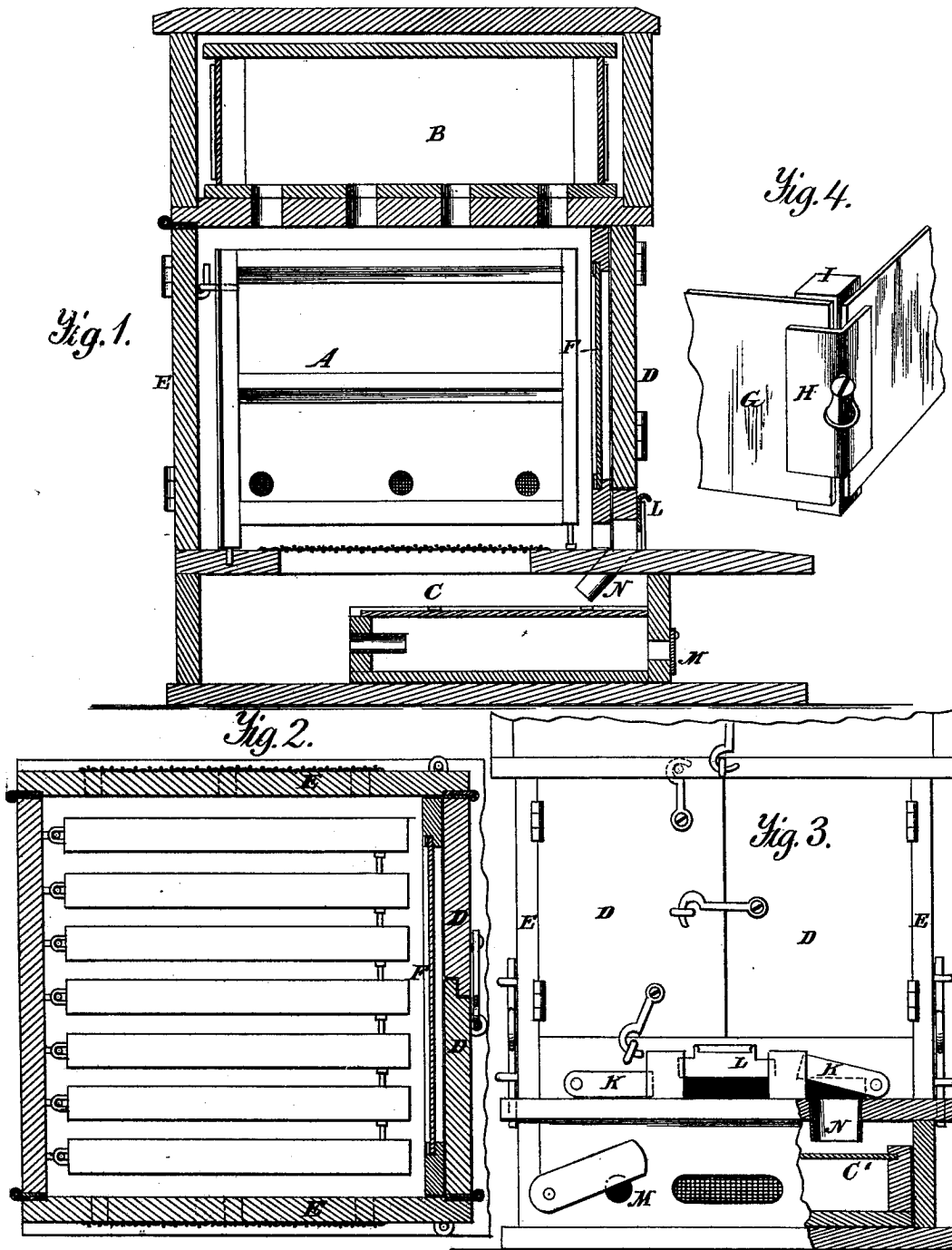


A. HARMAN.
BEE-HIVE.

No. 185,527.

Patented Dec. 19, 1876.



Witnesses:
A. Rupert.
W. C. C. Waffler

A. Harman
Inventor:
D. P. Holloway & Co.
Atty.

UNITED STATES PATENT OFFICE.

ANANIAS HARMAN, OF ROANN, INDIANA.

IMPROVEMENT IN BEE-HIVES.

Specification forming part of Letters Patent No. **185,527**, dated December 19, 1876; application filed September 10, 1876.

To all whom it may concern:

Be it known that I, ANANIAS HARMAN, of Roann, in the county of Wabash and State of Indiana, have invented a new and useful Improvement in Bee-Hives, of which the following is a specification:

This invention has for its object the affording convenient access to the honey-frames of the hives, by means of double-hinged doors opening both the front and sides of the hive; also, the more convenient attachment of the glass plates of the surplus honey-boxes by means of sliding plates, which overlap the edge of the glass; also, the separation and destruction of the drones by means of adjustable entrances.

In the annexed drawings, making part of this specification, Figure 1 is a vertical and longitudinal section of the hive. Fig. 2 is a horizontal section. Fig. 3 is an elevation of the front of the hive, and Fig. 4 is a perspective view, showing the means for attaching the glass plates of the surplus honey-boxes.

The same letters are employed in all the figures in the indication of identical parts.

My improvements are applied to the well-known form of hive commonly known as the "Buckey Hive," which is composed of a section, A, containing the honey-frames. Another section, B, which sets on top of section A, and contains the surplus honey-boxes, and a third section, C, below, which contains the miller-trap. Access is given in the Buckey hive to the frames by doors in the front at D, a glass plate, F, being interposed to prevent the bees rushing out when the doors are opened. To give more complete access to the frame when it is desired to divide or transfer and see the operation of the bees more perfectly, I hinge the doors D to side doors E, hinged to the back of the hive, and fastened to the bottom by bolts, so that the doors D may be opened in front, or, by detaching the bolts, the doors on the sides may be also opened and the top section B swung on its hinges, and the glass front removed, so that nothing remains but the back and frames fastened to it. The surplus honey-boxes consist of a top and bottom, and four corner-posts, I. The glass plates G, fastened to the corner-posts I, are secured by means of the angle-plates H, which are

slotted, as shown in the fourth figure, so that, when the glass plates G are in place, the angle-plates may be attached, overlapping their edges by slipping the narrow neck of the slot down into the stem of a wood-screw in the corner of the post I. In the fall it is desirable to separate the drones from the workers and destroy the former. To accomplish this, I make three openings through the bottom of the hive, shown at K K and L. These openings are provided with sliding doors. The middle opening gives access to the hive, the side ones through the inclined tubes N, through the bottom of the hive, into the miller-trap O, in front of which is an opening, covered by a wire screen, and on each side a hole with an adjustable door. The drones are larger than the worker-bees, and this enables us to make the separation. The door L being closed, so that only the worker-bee can enter, the drone will pass through the open doors K K and tube N into the miller-trap, where he will perish. Should worker-bees pass through the same doors K, they may be permitted to escape through the trap by opening the doors M wide enough to permit them to pass, but not the drones. To make this separation, in the autumn, about the times when the workers fall upon the drones to kill them, in the middle of the day, when the drones will be out of the hive, the door L should be adjusted so that they cannot re-enter.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The double-hinged doors D E, attached to the back of the frame-section A of a bee-hive, and arranged to swing freely in opening without detaching any other parts of the hive, so as to give free access to the frames, substantially as set forth.

2. In a surplus honey-box of a bee-hive, the adjustable slotted angle-plates H, in combination with the post I and glass plate S, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ANANIAS HARMAN.

Witnesses:

JOHN MITCHELL,

WILLIAM W. CONSTANT.