

A. E. WENZEL.  
Bee-Hive.

No. 202,612.

Patented April 16, 1878.

Fig. 1.

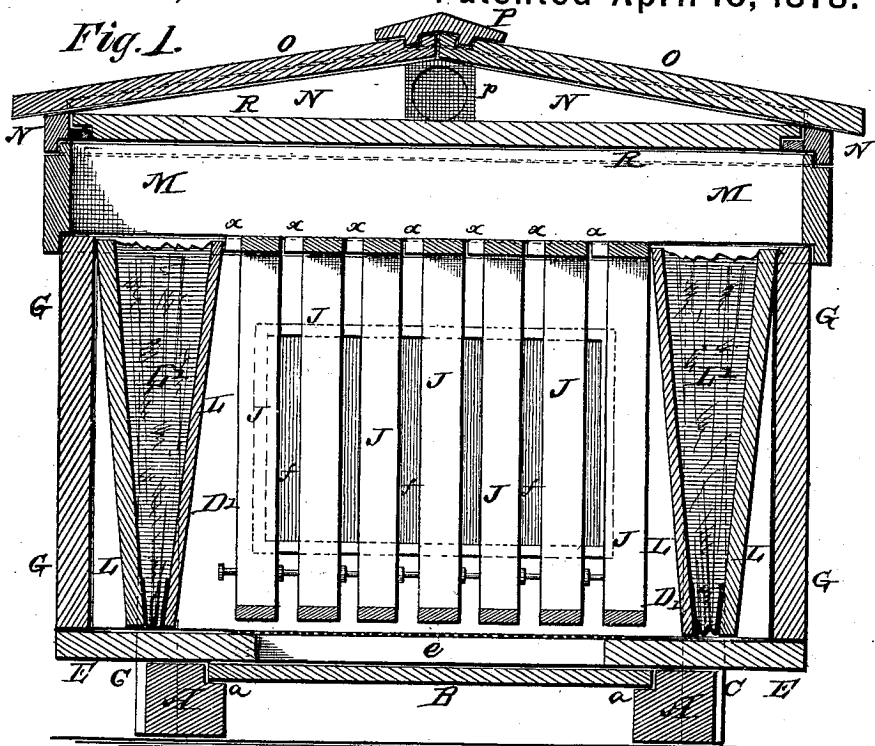
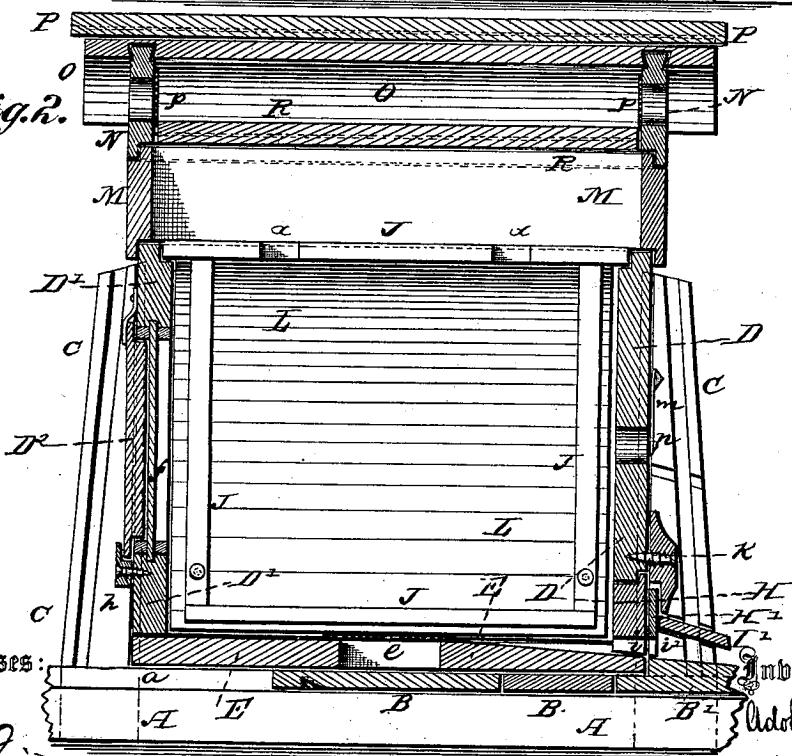


Fig. 2.



Witnesses:

*A. Dieterich*  
Franklin, Wis.

Inventor:

*Adolphus E. Wenzel*

Per *C. H. Watson & Co.* Attorneys.



# UNITED STATES PATENT OFFICE.

ADOLPHUS E. WENZEL, OF CALLICOON, NEW YORK.

## IMPROVEMENT IN BEE-HIVES.

Specification forming part of Letters Patent No. **202,612**, dated April 16, 1878; application filed September 21, 1877.

*To all whom it may concern:*

Be it known that I, ADOLPHUS E. WENZEL, of Callicoon, in the county of Sullivan and State of New York, have invented certain new and useful Improvements in Bee-Hives; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to bee-hives, having for its object to form an improved hive; and it consists in providing the sides of the hive near the corners with inclined slots and angle-irons, whereby the hive may be drawn together and held firmly in place, and providing the hive with flexible angular pockets, arranged within the hive, and in combining with the hive supplemental boards and posts and the angular pockets, whereby a winter hive is formed, as will be hereinafter more fully described.

In the annexed drawings, to which reference is made, and which fully illustrate my invention, Figure 1 is a central vertical section. Fig. 2 is a transverse section as a summer hive. Fig. 3 is a similar view when used as a winter hive. Fig. 4 is a portion of an elevation of the front. Fig. 5 is a plan view of the roof, partly broken away; and Figs. 6, 7, 8, and 9 are various detail views of my invention.

A A represent two parallel bed-sills, formed on their inner sides each with a longitudinal rabbet, *a*, upon which are placed sliding boards B. Each sill A is also, at a suitable distance from each end, on the outside, provided with a dovetailed groove for the insertion of the lower end of a standard, C, said portion of the standard being correspondingly dovetailed. D and D' are, respectively, the front and back of the hive, which are, on their outer sides, near the end, provided with vertical dovetailed grooves for said front and back to slide downward upon the correspondingly-shaped inner edges of the standards C C. The front and back D D' rest upon the bottom E, which lies upon the sills A A, and has notches in its sides to fit on the standards and be kept in place thereby.

The front and back D D' are rabbeted at the ends and top, as shown, and the end pieces G G are placed upon the bottom E against the rabbets at the ends of the front and back. These end pieces are held in place by means of exterior angular catches *b b*, made in L shape, and having along each side an inwardly-projecting flange, *b'*, which engages with the inclined slots formed near the corners of the hive, as shown at *b''*. The slots being inclined, the parts of the hive are drawn together as the angle-irons are drawn down.

In the bottom E of the hive is a ventilating-opening, *e*, covered with wire-cloth or other suitable equivalent material. In the back D' is an opening covered with glass *f*, and on the outside is a hinged door, D<sup>2</sup>, fastened by a button, *h*. By opening this door the bee-keeper can readily see the progress of the work in the hive without disturbing the bees.

In the front D of the hive, at the bottom, is a large opening, closed by a door, H, which is held in place by a reversible button, *k*, said door having suitable bee-entrances *i i* formed in its lower edge. The door H is only to be removed for cleaning out the hive, the bottom being made sloping from the center toward the door, as shown.

H' is a slide, placed, when required, in front of and against the door H, said slide having openings *i'* in its lower edge, so that by moving the slide laterally the bee-entrances *i* can be regulated at will, or closed altogether, as desired. This slide, when thus in position, is held in place by one end of the reversible button *k*, and rests upon the alighting-board B', which rests on the rabbets *a* in the sills A at that side of the hive. This alighting board has a shoulder or offset along its inner side, so as to form a tongue, that passes under the bottom E and against one of the boards B. The other board B can be drawn out from the back, so as to uncover the ventilating-opening *e*, or moved inward, so as to close the same.

When the slide H' is not to be used the button *k* is reversed, and the slide may be held above the button by its then upper end, while the lower end of the button holds the door H in its place.

Above the bee-entrances is an outside strip, I', placed in inclined grooves in the front standards *c c*, as shown, thus forming a cov-

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