

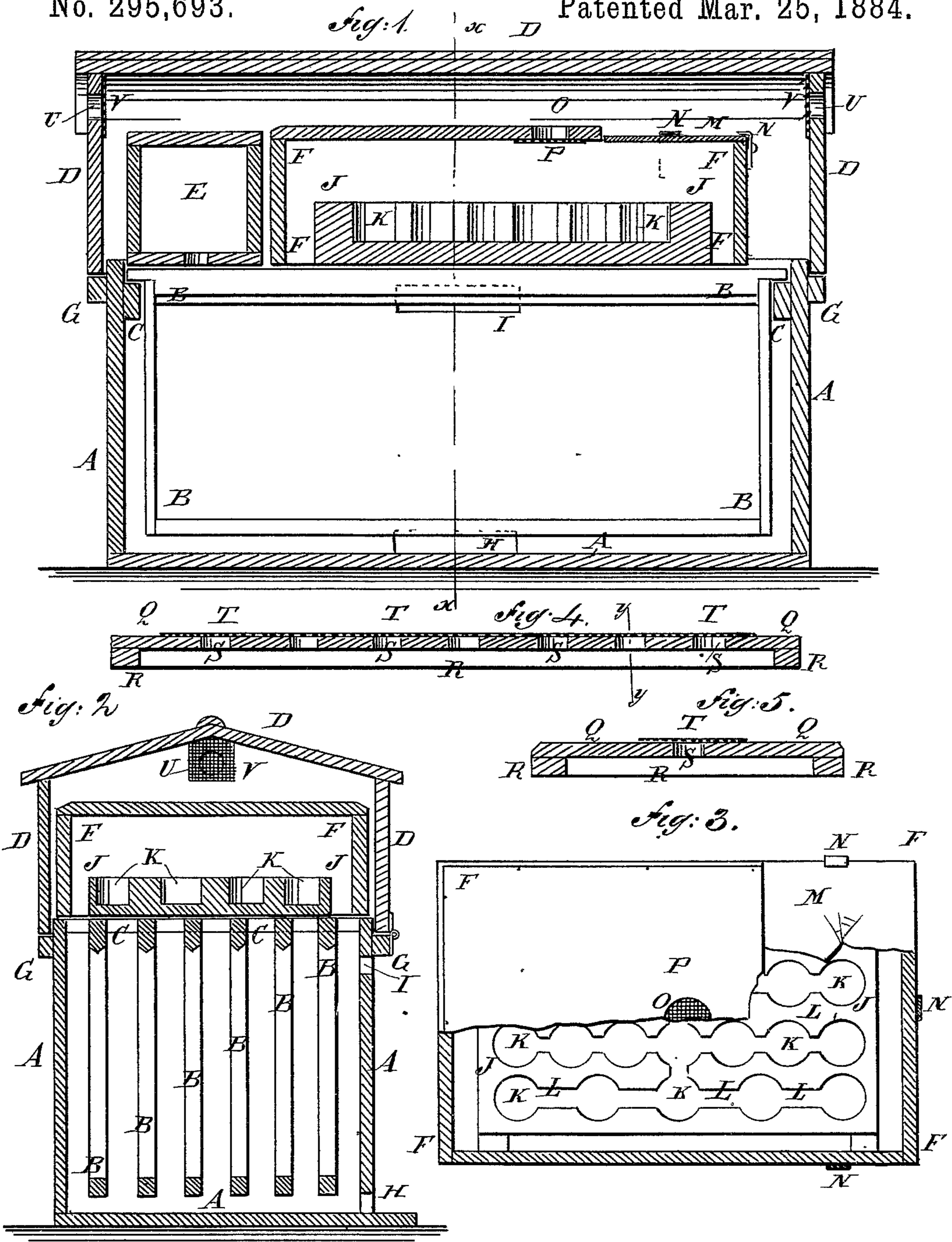
(Model.)

J. VANZANDT.

BEE HIVE.

No. 295,693.

Patented Mar. 25, 1884.



WITNESSES:

*Onas Nida.*  
*Ch. Sedgwick*

INVENTOR:

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 BY *Mum & Co*  
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# UNITED STATES PATENT OFFICE.

JOSHUA VANZANDT, OF SEWARD, KENDALL COUNTY, ILLINOIS.

## BEE-HIVE.

SPECIFICATION forming part of Letters Patent No. 295,693, dated March 25, 1884.

Application filed May 11, 1883. (Model.)

*To all whom it may concern:*

Be it known that I, JOSHUA VANZANDT, of Seward township, in the county of Kendall and State of Illinois, have invented a new and useful Improvement in Bee Hives, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional rear elevation of my improvement. Fig. 2 is a sectional end elevation of the same, taken through the line  $x$   $x$ , Fig. 1. Fig. 3 is a plan view, partly in section, of the feed-box. Fig. 4 is a sectional side elevation of the honey-board. Fig. 5 is a sectional end elevation of the same, taken through the line  $y$   $y$ , Fig. 4.

The object of this invention is to promote convenience and success in bee-culture.

The invention relates to a bee-hive constructed with a body having comb-frames and a high cover, and provided with a honey-board having cleats or flanges upon the edges of its lower side, and provided with gauze covered openings, whereby the honey-board is kept out of contact with the comb-frames and the moist air is allowed to escape freely. Upon the top of the hive-body rests the feed-box, which incloses a feed-trough made with food-receiving recesses connected by grooves, and provided with a separable glass plate, whereby the condition of the trough can be readily seen and convenient access thereto can be had, as set forth.

A represents the body or brood-chamber of the hive.

B are the comb-frames, the ends of the top bars of which project and rest upon cleats C, attached to or upon shoulders formed upon the upper parts of the walls of the chamber A.

D is the upper part or cover of the hive, which is made high, so as to serve also as a chamber to receive the honey-boxes E when the bees are storing honey, and the feed-chamber F when the bees are to be fed. The cover D rests upon cleats G, attached to the upper part of the outer sides of the body A, as shown in Figs. 1 and 2, and may be hinged at the lower edge of one side to the upper edge of the said body A.

In the lower part of one side of the body A is formed an opening, H, for the bees to pass in and out, and in the upper part of the said side is formed a similar opening, I, so that the loaded bees can pass directly to the honey-boxes E. The honey-boxes E are made in the ordinary manner, with openings in the bottom for the passage of the bees, and with glass ends to allow the interior of the said boxes to be readily inspected. The feed-box is made with an open bottom, and rests upon the edges of the body A or upon the top bars of the comb frames B.

Within the lower part of the box F is arranged the feed-trough J, which is made smaller than the said box F, so as to leave a free passage for the bees all around the said trough J. The trough J is formed with a number of food-receiving recesses, K, in its upper side, which are connected by narrow channels L, so that the food will stand at the same depth all over the said trough. With this construction passage-ways for the bees will be formed all over the trough J, so that the bees will not be liable to get into the food and be drowned. A part of the top of the feed-chamber F is cut away, and is replaced by a glass plate, M, which is secured in place by straps N, buttons, catches, or other fastenings, so that the glass plate M can be readily removed to allow food to be put in. The glass plate M also allows the interior of the feed-trough to be seen without opening the feed-chamber.

In the top of the feed-chamber F is formed a ventilating-opening, O, which is closed upon the inside of the said top by wire gauze P, to prevent the bees from passing through the said opening.

In the winter the honey-boxes are removed, the honey-board Q is placed over the comb-frames, and the space above the said honey-board is filled with clean straw or hay, so as to keep the bees warm without obstructing the ventilation of the hive. The honey-board Q is raised out of contact with the comb-frames B by cleats R, attached to the lower side of the edge of the said board, as shown in Figs. 4 and 5. Numerous holes, S, are formed through the honey board Q for the passage of air, which holes are closed by wire-gauze T.

In the upper parts of the ends of the cover D are formed ventilating-holes U, which are

closed with wire gauze V, as shown in Figs. 1 and 2, so that the moist air can escape from the hive freely, and a thorough ventilation can be secured.

5 Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is -

In a bee-hive, the combination, with the body A, of the open bottomed feed box F, resting

on the edges thereof, and the feed trough J, arranged therein on comb-frame B, leaving an open space between the feed box and trough, as described.

JOSHUA VANZANDT.

Witnesses:

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