

Z. L. JACOBS.  
Bee Hive.

No. 63,641.

Patented April 2, 1867.

Fig. 1

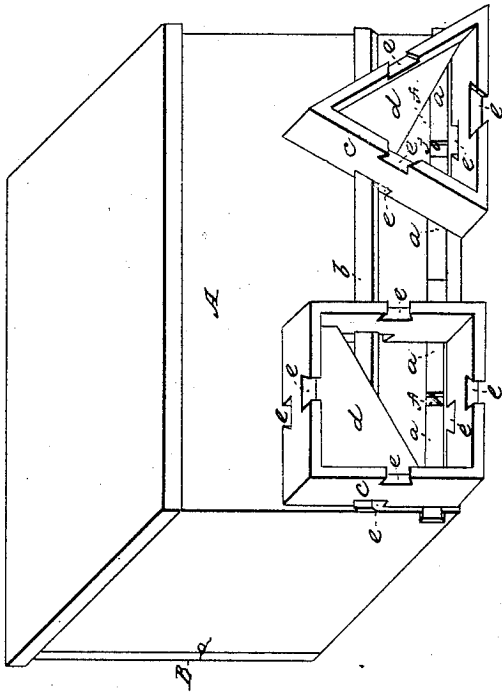


Fig. 2

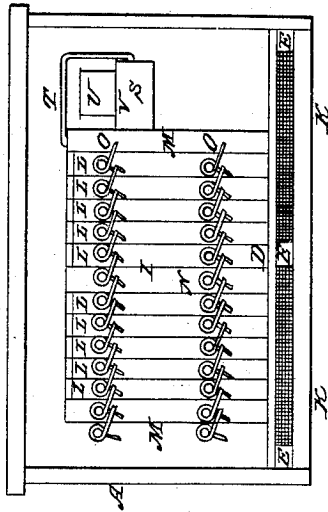


Fig. 4

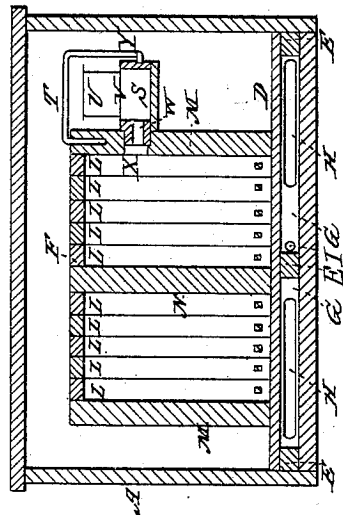


Fig. 3

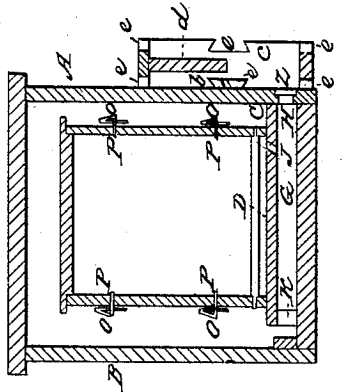


Fig. 5



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Inventor:  
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# United States Patent Office.

ZALMON L. JACOBS, OF HEBRON, CONNECTICUT.

Letters Patent No. 63,641, dated April 9, 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, ZALMON L. JACOBS, of Hebron, in the county of Tolland, in the State of Connecticut, have invented a new and useful Improvement in Bee-Hives; and I do hereby declare that the following is a full, clear, and exact description of the construction and use 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, a back view with the door removed to show the interior arrangements.

Figure 3, a transverse section.

Figure 4, a longitudinal section; and

Figure 5, a detached and enlarged view of one of the hooks by which the parts of the bee-box are held together.

Similar letters of reference indicate like parts in all the figures.

The nature of my invention consists in a peculiar combination and arrangement of appendages to a bee-hive, whereby the bees are protected from the wind, and various operations in bee management are facilitated, particularly those of inspecting and manipulating the contents of the hive, feeding the bees, and regulating the number of adherents to artificial swarms.

To enable others skilled in the art to which my invention appertains to make and use the same, I will describe its construction and use.

The rectangular case A serves to support and shelter the other parts of my device. Its back side B is made movable, forming a door, and affording access to the interior. A narrow board, C, which may be fixed, and a wide movable board, D, are laid on the cleats E, so as to form a raised platform for supporting the bee-box or hive proper, F; the board C being placed against the front wall of the case, and the board D contiguous to board C. The principal object of making the aforesaid platform of two boards is to facilitate the removal of impurities from the hive. The back side of the bee-box being slightly raised, the board D upon which most of the impurities of the hive fall is entirely relieved of the weight of said bee-box, and may be readily withdrawn and cleansed. The space below the aforesaid platform is divided by the most central of the cleats E into two nearly equal apartments or chambers G. To afford communication between said chambers and the open air, a horizontal slot or mortise, H, is made from each of said chambers through the front wall of the case, and a smaller aperture, I, but sufficiently large for the ingress and egress passage for a colony of bees, is made about midway between said slots, forming a second entrance to one of the aforesaid chambers G. A passage, J, is also made from each of said chambers, inclining upward towards the front, through board C, to afford communication between said chambers and the bee-box F. The aggregate width of the boards C and D is somewhat less than the width of the case, so that wind entering the chambers G will be free to pass out at their back sides and into the space around and above the bee-box F, instead of entering said bee-box as it would otherwise be likely to do. Wire-cloth screens K, permitting the wind but not the bees to pass, may be used, if desired, to prevent the bees from entering the space back of chambers G. The bee-box F before mentioned consists of a suitable number of close-fitting comb-frames L, two side boards M, and a dividing board, N, all held together, on each side, by two series of peculiarly formed wire hooks O. Said hooks are made of a length to accord with the thickness of the frames and boards to which they are applied, and have shanks P, bent at right angles with their main parts, which enter suitable holes made for the purpose in the said frames and boards, which holes are made in such positions that when the parts are properly arranged the first hook of a series on the right hand attaches directly to the shank of the second hook, that to the shank of the third, and so on through a series. Staples or pins may be used to terminate each series if preferred. That the said hooks may close the joints accurately, notwithstanding slight incidental variations in their construction, and in that of the parts to which they are attached, and that they may not be likely to unhook by accident or when the bee-box is inverted, each is made with a coil or spring, Q, and its beak is formed as shown at R, fig. 5, so that it clings with some force to the object to which it connects. For feeding bees an apparatus is provided consisting of the reversible box S, the spring T, and the receptacle U. The said box S has one of its sides made of sheeting or similar fabric V, and has an aperture, W, with a circular lip, X, which fits loosely within an orifice made for the purpose in the side of the bee-box. The spring T is attached to the bee-box F, and embraces and supports the box S, and has a cylindrical end, Y, which

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