

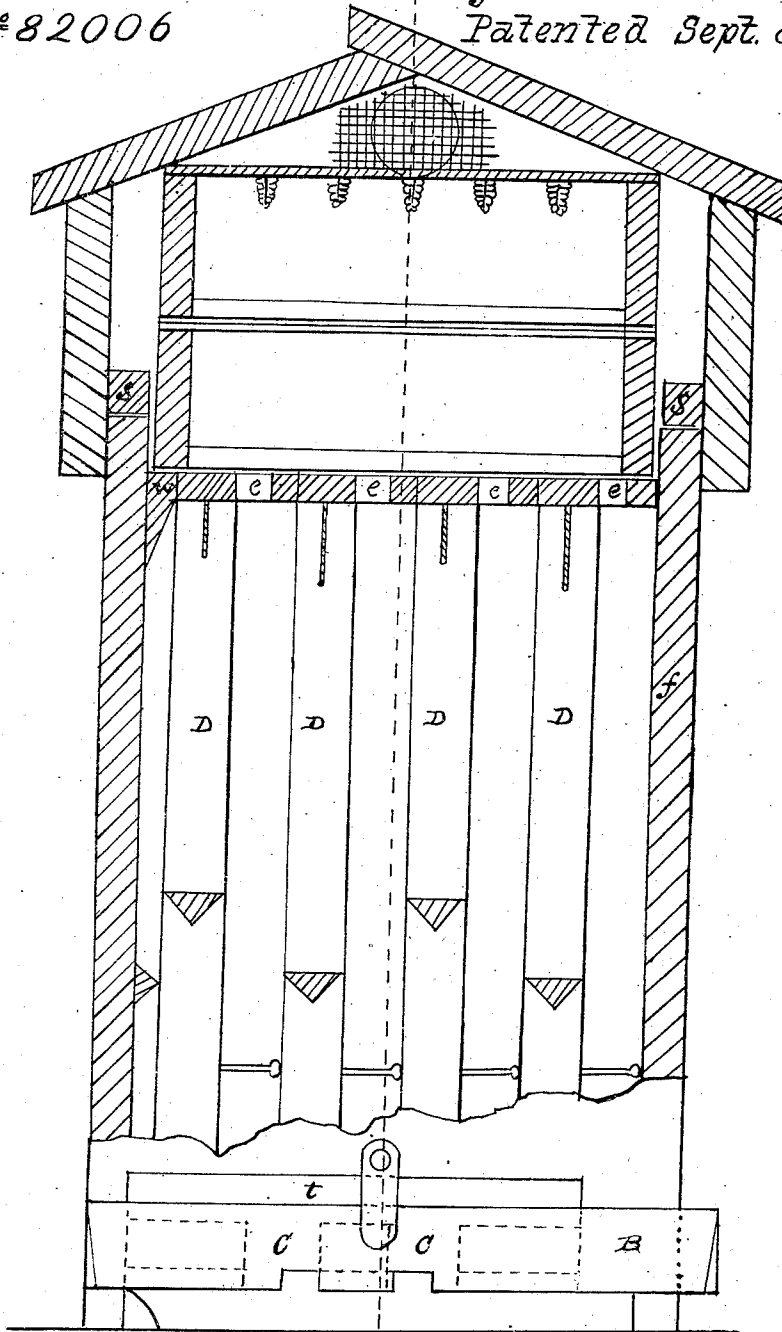
Sheet 1.

H. A. King. Bee-Hive.

Fig. 1.

N^o 82006

Patented Sept. 8, 1868.



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H. A. King *Fig. 2.* Bee-Hive.

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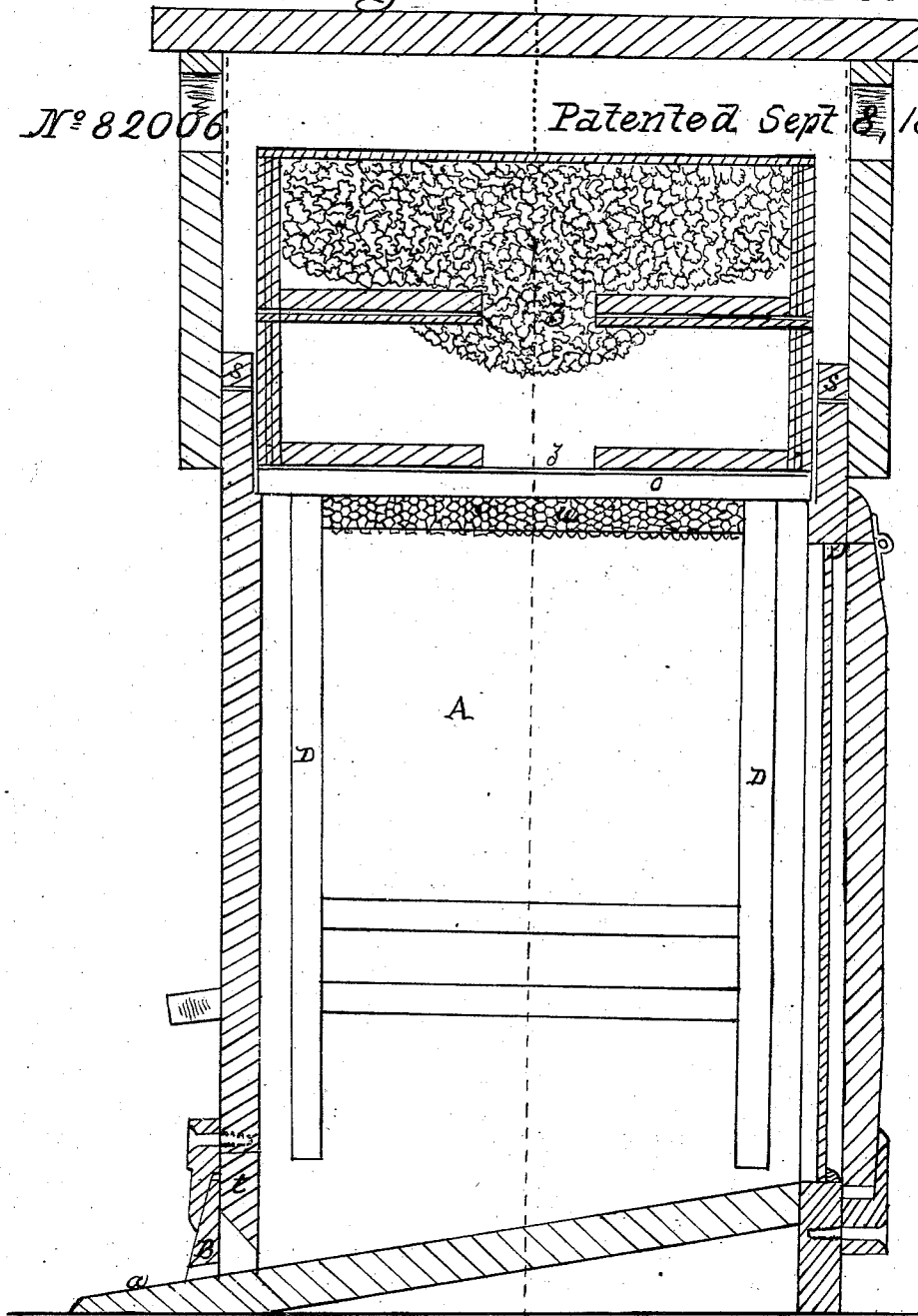


Fig. 3.

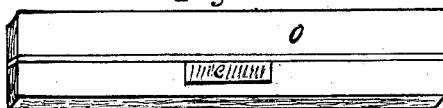
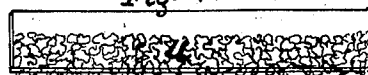


Fig. 4.



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UNITED STATES PATENT OFFICE.

H. A. KING, OF NEVADA, OHIO.

IMPROVEMENT IN BEE-HIVES.

Specification forming part of Letters Patent No. 82,006, dated September 8, 1868.

To all whom it may concern:

Be it known that I, H. A. KING, of Nevada, in the county of Wyandot and State of Ohio, have invented new and useful Improvements in Bee-Hives; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of the specification, in which—

Figure 1 is a vertical section of my invention, taken in the line *x x*, Fig. 2. Fig. 2 is a vertical section of the same, taken in the line *y y*, Fig. 1. Fig. 3 is a detached plan or top view of one of the close-fitting top bars of the comb-frames, with comb-guides nailed between two parts to form the bar. Fig. 4 is a side view of one of the comb-guides, waxed and pressed to form the base of worker-cells before fastening into the frame.

Similar letters of reference indicate corresponding parts of the several figures.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents the body of main portion of the hive, which is quadrilateral in form, and is provided with roof-shaped cap, inclined bottom board, movable side, and other parts which we here omit to describe, as they are fully described in the specification accompanying the Patent No. 40,725, issued November 24, 1863, and Patent No. 50,367, issued October 10, 1865.

The double tier of honey-boxes herein described are improved over those used in the aforesaid patent issued October 10, 1865, by making the long slots *z z* instead of two holes through the top of the lower honey-boxes. I put on a box with closed top, and guide-combs running at right angles with the long slot *z* in its bottom, and, when partly filled with honey, I raise it up, bees and all, and put underneath it a box with the long slots *z z* both in its top and bottom, the slot in the upper box matching with the slot in the top of the lower box, so that the bees will lengthen down the combs from the upper box into the lower box, and attach them to the top of the lower box. By the time the upper box is ready to remove the

lower box will be ready to raise. At the close of the honey season a box will usually be left partly filled, in which the bees will commence much earlier than they would in an empty box, and with these slots no more guide-combs are needed in the honey-boxes, thus saving care and labor, as the guides are formed by dipping pieces of honey-comb into melted wax and attaching them to the under side of the top of the honey-box while the wax is hot, which remain firmly attached when the wax is cold.

The comb-guides U U U U, Figs. 1, 2, and 4, are formed of thin strips of wood about an inch wide, and one edge dipped in melted bees-wax to the depth of about half their width. The wax adheres to the sides and lower edge when it is placed in a press between two comb-dies cut to press the wax to form the base of cells of worker-comb.

The close-fitting top bars O O O O, Figs. 1, 2, and 3, are each formed of two pieces of lumber. The slots *e e e e* are formed in one piece of the top bar by cutting a long groove across a wide board before ripping the pieces from it, and in nailing the top bar together the notched edge is placed against the upper edge of the comb-guide, which is nailed between the strips that thus form the top bars. The bees will commence on these comb-guides more readily than on common wooden guides, and, the wax being pressed to form the base of cells of worker-comb, the bees will follow the guides and build mostly worker-comb, which is much more valuable than drone-comb.

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

1. The slots *z*, in connection with a double tier of honey-boxes with comb-foundations, as specified, and for the purposes set forth.

2. Constructing the close-fitting top bars O with comb-guides U and slots, as specified, and for the purposes set forth.

H. A. KING.

Witnesses:

ABRAHAM BARTLETT,
LUCINDA DAILEY.