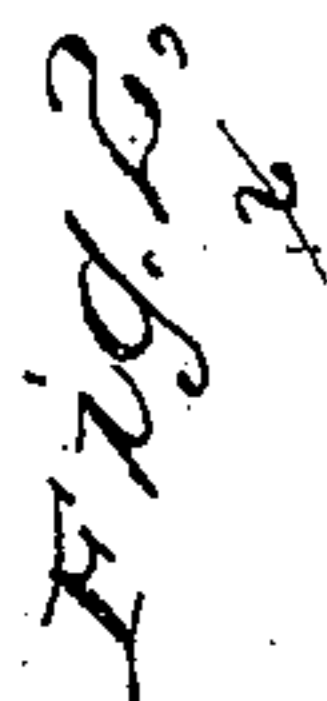


Bee Hive.

Patented March 29, 1864.



Witnesses

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UNITED STATES PATENT OFFICE.

RODMAN LOVETT, OF CANTON, OHIO.

IMPROVEMENT IN BEE-HIVES.

Specification forming part of Letters Patent No. 42,093, dated March 29, 1864.

To all whom it may concern:

Be it known that I, RODMAN LOVETT, of Canton, in the county of Stark and State of Ohio, have invented a new and Improved Bee-Hive; and I do 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 this specification, in which—

Figure 1 is a vertical section of my invention, taken in the line $x x$, Fig. 2; Fig. 2, a vertical section of the same, taken in the line $y y$, Fig. 1; Fig. 3, a diminished horizontal section of the same, taken in the line $y y$, Fig. 2.

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

This invention relates to an improved beehive of that class which are provided with movable or adjustable comb-frames; and it consists in a novel arrangement and construction of the hive generally, whereby each comb-frame is rendered capable of being inspected and removed from the hive, if necessary, and at the same time a very simple and economical hive produced, which will admit of all the necessary manipulations in bee-culture being performed with the greatest facility.

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

A represents the body or main portion of the hive, which is of rectangular form and has one side, a , made detached from the others and secured in contact with its adjoining sides by means of hooks b and eyes c , or other suitable fastenings. The opposite side, d , of the body A is divided centrally and vertically into two parts, which are connected by hinges e , and in one side, f , of A there is a door, B, the opening which the door covers being provided with a glass, g , as shown in Figs. 2 and 3. The body A of the hive rests upon a quadrilateral frame, B', which is provided with pins or feet h , and these latter rest upon a flat board, B'', the pins or feet h admitting of an air-space, i , between the board B'' and the lower end of the body A of the hive, as shown in Figs. 1 and 2. The detachable side a of the body A has comb-frames D attached to it in such a manner that they may swing laterally. These comb-frames are of rectangular form, and each has an inclined or

diagonal bar, j , within it, as shown clearly in Fig. 1. These bars j answer for two different purposes. In the first place they serve as braces for the comb-frames D, and in the second place they serve as comb-guides, causing the bees to build their combs straight or in vertical planes within the frames D. The under surfaces of the top bars, k , of the comb-frames D are of V form in their transverse section, as shown in Fig. 2, so as to form a knife-edge to insure the comb of each frame being commenced properly within it, and the upper surfaces of the lower or bottom bars, k' , are constructed in a similar manner, so as to prevent dirt and impurities of any kind from resting or lodging upon it. The comb-frames D are attached to the side a of the body A, by having eyes m secured to one of the side bars, n , of each comb-frame, said eyes being fitted on hooks $o o'$, attached to the side a , the lower hook, o' , having a much longer vertical rod than the upper one. By this arrangement the body A may be opened by detaching the side a from the other sides of the body, and the comb-frames all exposed, and the latter rendered capable of being moved or swung laterally and inspected with the greatest facility.

On the top of the body A of the hive there is placed a horizontal board, E, on which the spare-honey boxes F are placed. These boxes F have each a glass end, p , in them and two holes, $q q$, in their bottom and one, r , in their top, the latter being covered with wire-cloth, s , to prevent the escape of the bees. In the board E there are made holes t , which register with the holes $q q$ in the bottoms of the spare-honey boxes F and admit of the bees passing up from the body A into the boxes F. The spare-honey boxes F are inclosed by a box, F', which rests on the board E and has an opening u in its upper end or top. This opening, u , is covered by wire-cloth, v , and is provided with a button, w . By adjusting the button w so as to leave the opening u more or less exposed, the draft through the hive may be regulated as desired for ventilating purposes. The box F' may be secured on the board E by means of hooks b' and staples c' .

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

Attaching the comb-frames D to the removable or detachable side *a* of the body A of the hive in such a manner that the comb-frames will be allowed to swing laterally, when said comb-frames, thus attached, are used in connection with the body A, constructed with the side *d* divided into two vertical parts con-

nected by joints *e*, so as to admit of the body being opened or distended to expose the comb-frames, substantially as set forth.

RODMAN LOVETT.

Witnesses.

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