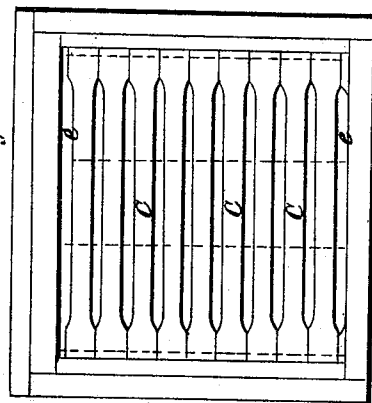
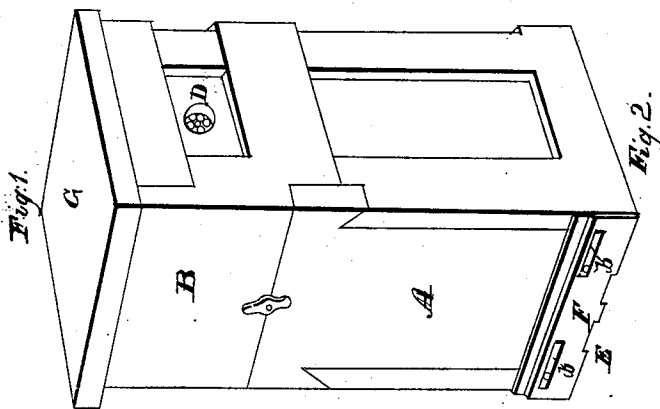
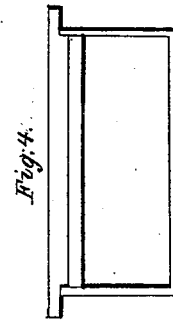
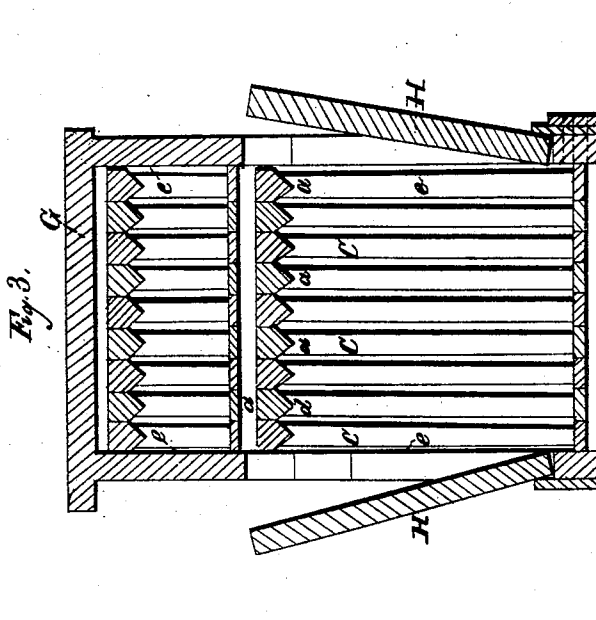


J. C. & R. R. LANDER.

Bee Hive.

No. 84,286.

Patented Nov. 24, 1868.



Witnesses  
J. H. Burridge  
Frank S. Aldin

Inventors  
J. C. Lander  
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# United States Patent Office.

J. C. LANDER AND R. R. LANDER, OF MAZO MANIE, WISCONSIN.

Letters Patent No. 84,286, dated November 24, 1868.

## 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 we, J. C. LANDER and R. R. LANDER, of Mazo Manie, in the county of Dane, and State of Wisconsin, have invented certain new and useful Improvements in Bee-Hives; and we do hereby declare that the following is a full and complete description of the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view of the hive.

Figure 2 is a view of the top, with the cover removed.

Figure 3 is a vertical section.

Figure 4, a detached section.

Like letters refer to like parts in the different views presented.

The nature of this invention relates to a bee-hive, so constructed and arranged that it can be enlarged by the addition of an upper story thereto, and thus provide room for the young brood in the parent hive, preventing them, by this means, from wandering off at the season for swarming. Also, by so constructing the case or box of the hive that two sides of the same can be removed, whereby free access may be had to the inside for the inspection of the condition of the bees, or for the removal or adjustment of the comb-frames.

Figure 1 represents the hive, which is constructed in the two sections A and B, section A being the body of the hive, and B, the upper section or story.

In the lower story or section is arranged a series of movable rectangular frames, C, the upper bar of which is wrought down to a thin edge, *a*, fig. 3, to which the bees attach the comb at the commencement of building, and are guided thereby, in the progress of construction, in straight, thin, and regular sheets.

The upper section of the hive is also filled with a series of comb-frames, in like manner, but which are of less depth than those in the lower section. A detached view of the same is given in fig. 4.

D, fig. 1, are ventilators, whereby the upper section of the hive is ventilated.

E are entrance-doors.

Said doors may be closed by means of a slide, F, secured in position for sliding by means of pins and slots, *b*.

G is the cover of the hive, which may be put on or taken off at will. It is also made to fit the lower section of the hive, when the upper section may be removed, as and for a purpose hereinafter described.

Access is had to the inside of the hive by means of the doors H, fig. 3, which may be taken entirely away from the case, so that both sides of the frames

are open to inspection or removal, or for dividing the bees, &c.

The hive, as represented in fig. 1, is a two-story one, and which, on being used in this way, the upper and lower sections are divided from each other by a partition, indicated by the dotted lines *c*, fig. 2, this partition being simply two boards laid upon the top of the frames, leaving only a narrow opening between them, along the centre, for the passage of the bees.

For an ordinary-sized swarm of bees, the lower section only is needed.

By removing the top and sides, as above said, access is had to the frames, so that the loaded ones can be removed, and empty ones inserted in their place, without breaking the comb, and with but little disturbance to the bees. When used in this way, the partition-boards referred to are removed, thereby allowing the bees to traverse the top of the frames; and, as they do not touch the walls of the case, but are so adjusted therein as to leave a space, *e*, fig. 3, between the walls and frames, the bees therefore have access to the entire surface of the outside of them, and can go all over and around them, and hence they will keep the hive free from the intrusion and lodgment of the moth.

When the bees are about to swarm, and hence require more room for the young bees than the old hive affords, the upper story or section is then placed on by simply removing the cover, placing the partition-boards in place, as above described, and then putting on the additional section, covering it with the cap or cover just removed, a work easily and quickly accomplished, without the least disturbance to the bees, which, on swarming, will take possession of the added room in the hive, instead of going off in search of other lodgment.

This hive also affords great facilities for feeding the bees, as a full frame can be removed from above and placed in the lower section, to which the bees have a free and easy access.

What we claim as our improvement, and desire to secure by Letters Patent, is—

The sections A B, movable sides H, dividing-boards C', and frames C, when said frames are so arranged in the cases that a space is left between them and the walls, all constructed, combined, and arranged, in relation to each other, in the manner as and for the purpose set forth.

J. C. LANDER.  
R. R. LANDER.

Witnesses:

CHAS. R. RANSOM,  
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