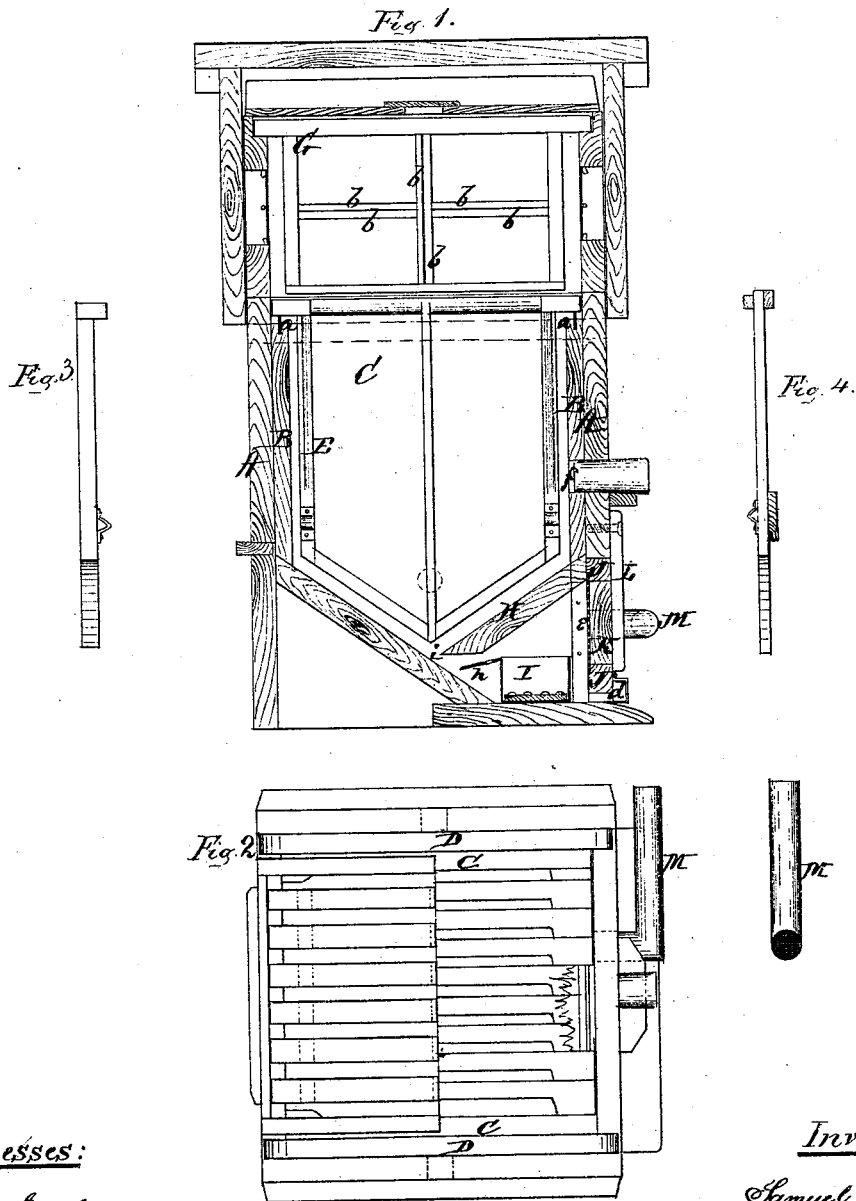


S. Cullin,

Bee Hive.

No. 111,434.

Patented Jan. 31. 1871.



Witnesses:

Chas. Jacobs
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Inventor:

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Per

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Att'y

United States Patent Office.

SAMUEL CUPLIN, OF IOWA FALLS, IOWA.

Letters Patent No. 111,434, dated January 31, 1871.

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, SAMUEL CUPLIN, of Iowa Falls, in the county of Hardin and State of Iowa, have invented certain new and useful Improvements in Bee-Hives; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon which form a part of this specification.

My invention is intended as an improvement upon the bee-hive for which Letters Patent were granted to me July 28, 1868, and November 24, 1868; and it consists—

First, in a lining for the front and rear sides of the brood-chamber;

Second, in one or more double partitions of slats placed in the frames of the surplus honey-box;

Third, in the construction and arrangement of a ventilator, whereby the hive can be ventilated and the light excluded;

Fourth, in the arrangement of the feeder for ventilating purpose; and

Fifth, in the construction of the shutter on the front side of the hive.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing,

In which—

Figure 1 is a vertical section of the hive;

Figure 2 is a plan view, part in section, of the same, with the top removed; and

Figures 3 and 4 are views of the frame in the brood-chamber.

In this specification I do not deem it necessary to describe more than what is necessary for a full understanding of the features now claimed by me, as the other parts of the hive have been fully explained in my former patents, above referred to.

A represents the brood-chamber of my hive, the front and rear sides of which are, on the inner side, provided with a lining, B.

These linings form shoulders against which to rest the movable boards C C, said boards being held in place by the strips D D, as mentioned in my patent of November 24, 1868.

These linings also form at their upper ends a rabbet, upon which the comb-frames E E can rest.

In this rabbet is inserted a strip, *a*, of tin, so that the frames may actually rest on said strips instead of on the lining, thereby preventing the bees from sticking the frames fast to the lining or hive. The strips *a a* may be dispensed with if so desired.

The linings B B also form a dead-air chamber by laying a strip all around under the edge of the linings.

G G represents the frames in the surplus honey-box.

In these frames are placed slats *b b*, forming double partitions, as shown in fig. 1, which partitions may run either horizontal or perpendicular, or both. The object and advantage of these partitions *b b* are, that when the frame is full of honey the outer bars can be cut through, and small frames thus be made for retailing honey and not break the combs.

Under the inclined bottom H is placed the feeder I, and the opening in the front side closed by a shutter, J, having a small sliding-door, *d*, as shown.

The shutter J has a large opening, covered on the inside with wire gauze *e*.

This opening may be closed from the outside by the door K, which, with the shutter, is held in place by the button L.

In the door K is a hole, in which a tin elbow or ventilator, M, is inserted, the shorter or inner end of which is covered with wire gauze, so that the live can be ventilated and the light excluded.

This ventilator is intended also to fit the fly-hole *f* above the shutter, if it should be desired to use it there.

The feeder I is provided on its inner upper edge with a flange, *h*, which projects inward and slightly downward. This flange, as well as the inner side of the feeder, near the upper edge, is perforated.

When the feeder is moved close in it closes the passage *i*, where the bees enter, and they get air through the perforations in the feeder. When the feeder is drawn out a little the bees can come out of the hive into the feeder. This ventilation is for winter, so that the bees cannot come out of the hive or brood-chamber.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. One or more double partitions, formed of slats, in the frames of a surplus honey-box, substantially as and for the purposes herein set forth.

2. The perforated feeder I, provided with a perforated flange *h*, and used for ventilating purposes, substantially as herein set forth.

3. The arrangement of the shutter J with wire-cloth *e*, sliding-door *d*, door K, and button L, all substantially as shown and described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

SAMUEL CUPLIN.

Witnesses:

MARTIN W. ANDERSON,
O. W. GARRISON.