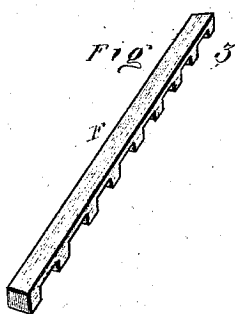
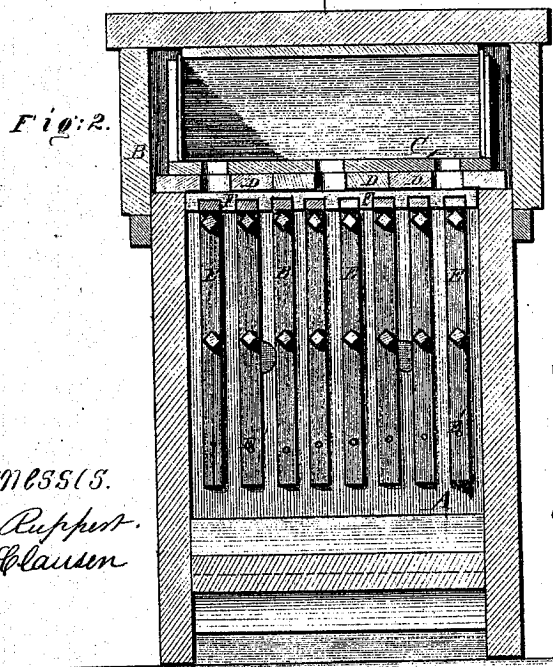
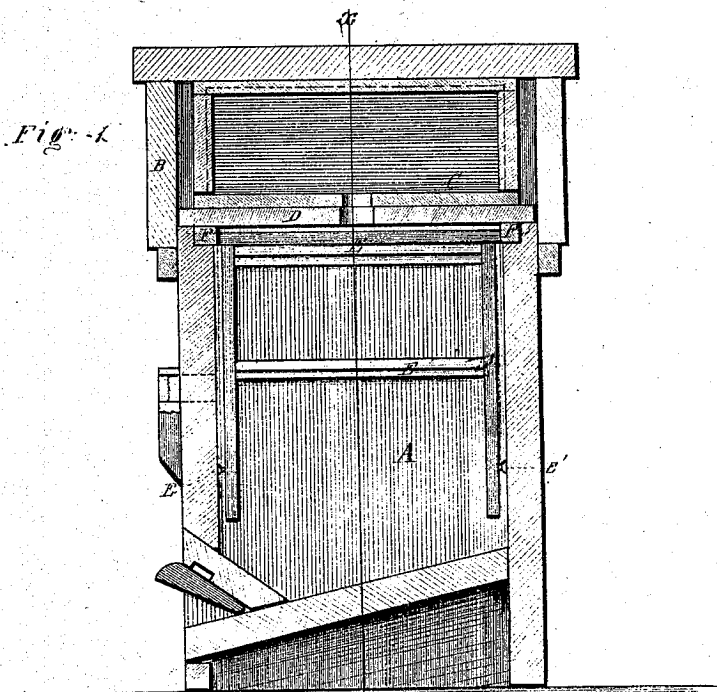


W. Courtney,

Bee Hive.

No. 102917.

Patented May 10, 1870.



Witnesses.
A. Ruppert.
C. F. Clausen

W. Courtney
Inventor.
D. S. Holloway & Co
Atty

United States Patent Office.

WILLIAM COURTNEY, OF RICHVIEW, ILLINOIS.

Letters Patent No. 102,917, dated May 10, 1870.

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, WILLIAM COURTNEY, of Richview, in the county of Washington and State of Illinois, have invented 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 annexed drawings making part of this specification, in which—

Figure 1 is a vertical section of a bee-hive, embodying my improvements.

Figure 2 is a section on line *x x* of fig. 1.

Figure 3 is a perspective view of one of the frame dividers.

The same letters are used in the several figures to designate identical parts.

My invention relates to bee-hives of that class described in Letters Patent of the United States granted to me December 31, 1867; and

My improvements consist in the construction of the honey-frames and the movable frame-dividers, and in their combination with the other parts of a bee-hive.

To enable those skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

In the annexed drawings—

A represents the main portion of a bee-hive, which I prefer to construct in the manner set forth in said Letters Patent.

B is a cap, placed upon the main portion of the hive, and covering the surplus-honey box C, which I propose to separate from the honey-frames by sectional honey-boards D.

It is not deemed necessary to describe the above-enumerated parts in detail, as they form no part of my present invention, and may be sufficiently understood by referring to the drawings.

In the main chamber of the hive a series of movable honey-frames, E, is to be placed in the usual manner.

It is found to be desirable that the sides of these frames should be held a short distance from the sides

of the chambers. This I effect by screws E', screwed into the end pieces of the frames at a proper point, so that the heads of such screws brace against the sides of the hive, as shown in fig. 1.

By these screws the distance between the ends of the honey-frames and the walls of the hive can be ganged and regulated.

F F represent two movable frame-dividers, which are used for the purpose of keeping the several honey-frames a suitable distance apart from one another.

To this end there are bars of wood, by preference, of the proper length, having as many notches cut in one side, at equal distances apart, as it is intended to have frames in the hives, such notches being made of the width of the upper cross-bar of the frames.

After the honey-frames have been inserted in the hive, one divider is placed over the frames at each end, so that the projections formed on such dividers hold them equal distances apart.

I do not claim any particular portion of this hive independently, for I am aware that analogous devices have been resorted to, to effect the same purposes.

Nor do I claim, broadly, the support of the frames in both directions, for other devices have been used for the same purpose.

My claim is limited to the particular means employed, and

What I do claim as my invention, and desire to secure by Letters Patent, is—

The combination of the honey-frames E, constructed with screws E', to maintain them in their relations to the walls of the hive, and the movable frame-dividers F, to preserve the spaces between the frames, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM COURTNEY.

Witnesses:

J. H. BARBER,
W. P. COOPER.