

# H. Filson, Comb Frame.

No. 92,947.

Patented July 27, 1869.

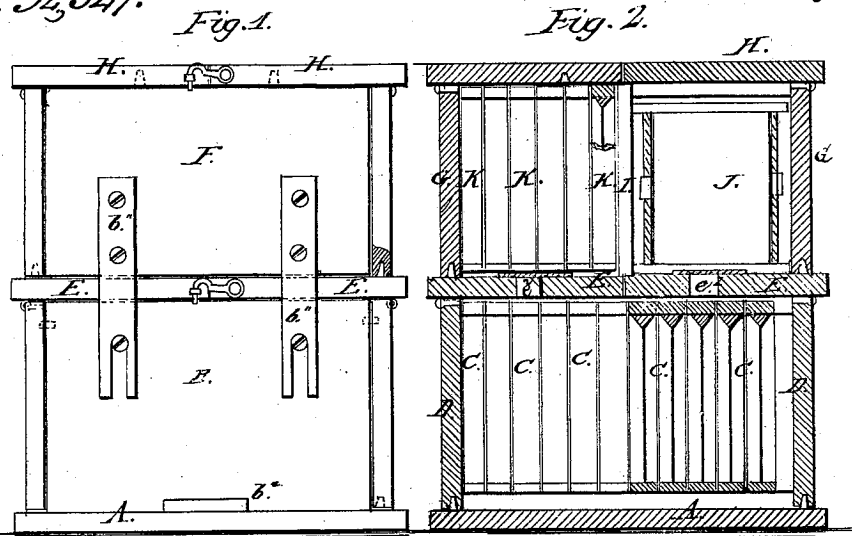
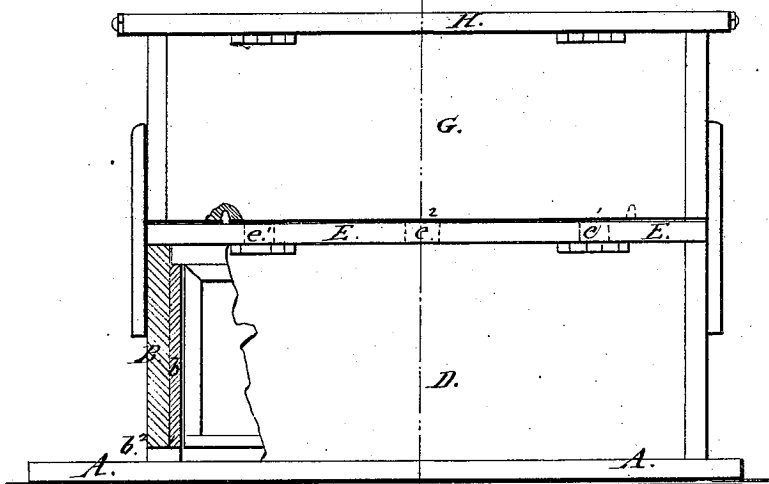


Fig. 3. \*



Witnesses:  
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# United States Patent Office.

HIRAM FILSON, OF MONONGAHELA CITY, PENNSYLVANIA.

Letters Patent No. 92,947, dated July 27, 1869.

## 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, HIRAM FILSON, of Monongahela City, in the county of Washington, and State of Pennsylvania, have invented a new and improved Bee-Hive; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 is a front view of my improved bee-hive, part being broken away to show the construction.

Figure 2 is a cross-section of the same, taken through the line  $x x$ , fig. 3.

Figure 3 is a side view of the same, part being broken away to show the construction.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved bee-hive, which shall be so constructed and arranged as to not only adapt it to the natural habits of the bees, but also allow all its parts to be conveniently and successively taken away; and

It consists in the construction and combination of the various parts of the hive, as hereinafter more fully described.

A is the bottom board of the hive.

B are the end boards of the lower part of the hive, the lower edges of which are screwed or otherwise securely attached to said board A. To the inner sides of the end boards B are attached interior boards,  $b'$ , of a little less height than the outer boards B, so as to form ledges for the projecting ends of the top bars of the comb-frames C to rest on.

D are the side boards of the lower part of the hive, which are connected with the bottom board A and end boards B by dowel-pins, as shown in fig. 1.

To the upper edges of the side boards D are hinged the outer edges of the halves of the top board E, which also forms the bottom of the upper part of the hive.

The adjacent edges of the parts of the top board E are connected to each other by hooks and staples, as shown in fig. 1, so as to confine the top board E and side boards D securely to the end boards B.

The top, E, has holes,  $e$ , formed through it to give the bees free access to the upper parts of the hive.

The top board E has also other openings,  $e'$ , formed through it; covered with perforated plates or fine wire gauze, to permit a free circulation of air.

In the lower edge of the front end board B is formed an opening,  $b''$ , to give the bees access to the hive.

F are the end boards of the upper part of the hive, which are securely but detachably connected with the end boards B by the cleats  $b''$ , firmly attached to the boards F, and slotted at their lower ends to pass over screws or catches attached to the lower end boards B, as shown in fig. 1.

G are the side boards, and H are the top boards of the upper part of the hive, which are constructed, and secured in place by dowel-pins and hooks, in the same manner as the side and top boards D and E of the lower part, except that the top boards H have no holes or openings formed through them.

The upper part of the hive is divided, longitudinally, into two compartments, by a detachable partition, I, the ends of which enter vertical grooves in the inner surfaces of the end boards F, or of the interior boards attached to said end boards.

In one of the compartments of the upper part of the hive, formed by the partition I, are placed the removable honey-boxes J, which may be formed with glass sides in the ordinary manner.

In the other compartment of said hive are placed the comb-frames K, with the projecting ends of their top bars resting upon the upper edges of the inner end boards of said part.

Having thus described my invention,

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

The construction of the removable side and half-top of the upper and lower sections, (either or both,) in such manner that said side and half-top, when united, either rigidly or by a hinged connection, may be removed together, substantially as herein shown and described, and for the purpose set forth.

The above specification of my invention signed by me, this 9th day of March, 1869.

HIRAM FILSON.

Witnesses:

CHAS. HEZZNER,  
J. B. FINLEY.