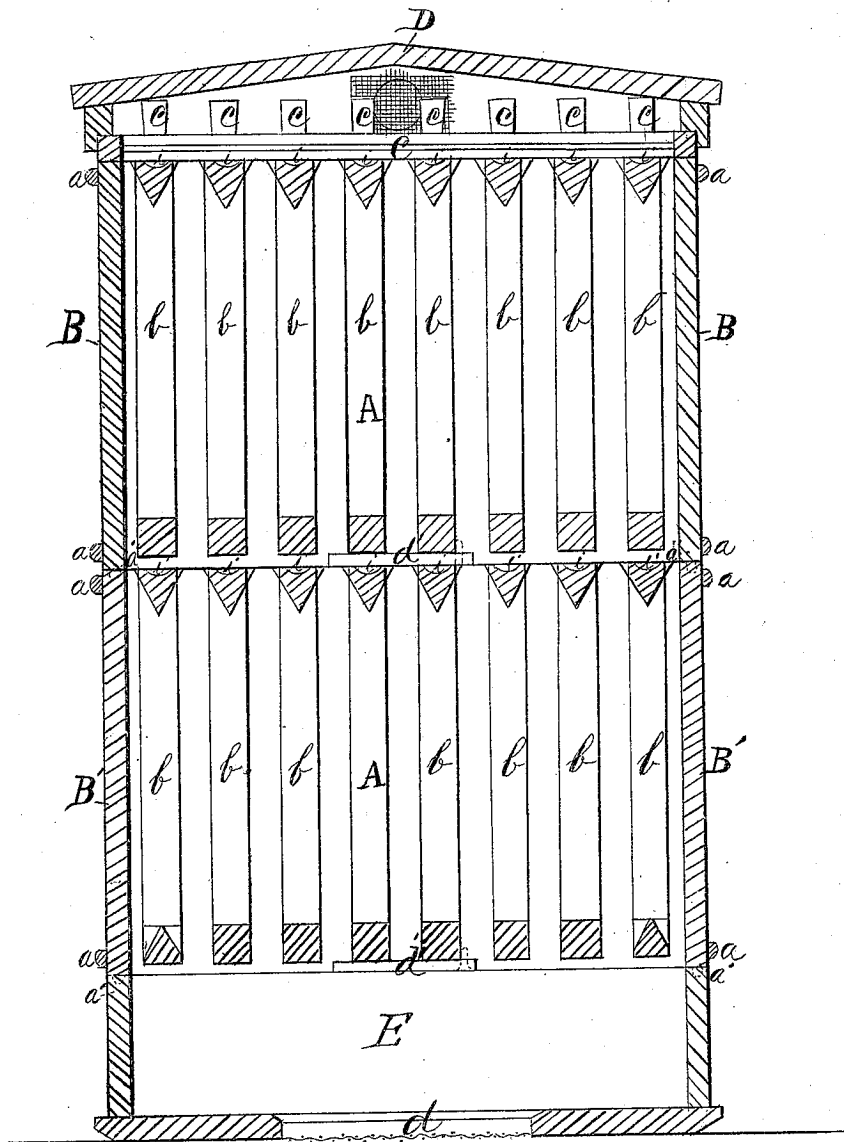


*R. T. Torrey,*

*Comb Frame.*

*No. 93372.*

*Patented Aug. 3. 1869.*



*Witnesses*

*John A. Ellis*  
*J. H. M. M.*

*Inventor*

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# United States Patent Office.

RUGGLES S. TORREY, OF BANGOR, MAINE.

Letters Patent No. 93,372, dated August 3, 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, RUGGLES S. TORREY, of Bangor, in the county of Penobscot, and State of Maine, 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, and in which is represented a vertical section of my bee-hive.

The nature of my invention consists in the combination and arrangement of devices hereinafter described.

To enable others skilled in the art to which my invention appertains, to make and use the same, I will now describe its construction and operation.

In the accompanying drawing—

A represents the hive made in two or more sections, B B', kept in place by the metal knees *a a*, riveted to the corners of the sections, and by pins *a' a'*, attached to the upper section, fitting receptacles formed in the lower section.

*b b b* represent the comb-frames placed in a vertical position in each section, as seen in the drawing.

Each of the comb-frames is troughed out, as seen at *i*, for the purpose of holding the feed for the bees, which is inserted through the tubes *c c c*, attached to the top of the hive.

These tubes connect with the rear end of the troughs, and extend a sufficient distance into the same so as to prevent the bees from escaping into the chamber above.

C is a glass placed over the feeding-troughs, to see when the troughs are full.

D is the top of the hive, and

E, the bottom, which is made a little larger than the sections, with a piece of wire-netting, *d*, in the centre for the purpose of ventilation.

This bottom is reversible, being turned over in fall, in order to leave a space under the combs, and in winter, to receive the dead bees, &c.

*d' d'* represent slides pivoted between each section.

Having thus described my invention,

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

A bee-hive, consisting of the sections B B', comb-frames *b b b*, with troughs *i i i*, glass C, top D, and bottom E, provided with wire netting *d*, all combined, arranged, and operating substantially in the manner and for the purpose described.

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

R. S. TORREY.

Witnesses:

W. C. CROSBY,  
CHAS. HAMLIN.