

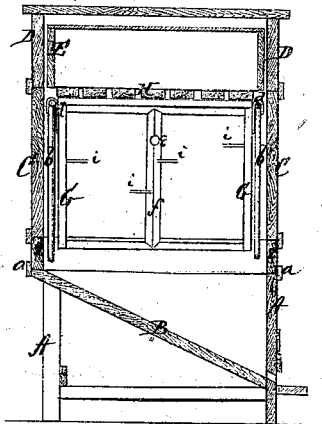
*T. S. Engledow.*

*Fee Five.*

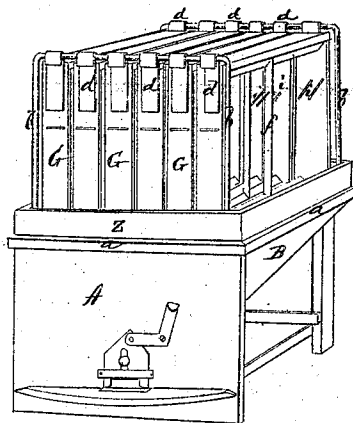
*No. 110,909.*

*Patented Jan. 10, 1871.*

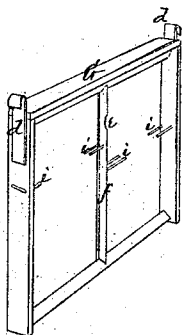
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



Witnesses.

*Chas. H. K. Kane.*

Inventor.

*T. S. Engledow*  
*Chipman, Hosmer & Co*  
*attys*

# United States Patent Office.

THOMAS S. ENGLEDDOW, OF CEDAR FALLS, IOWA.

Letters Patent No. 110,909, dated January 10, 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, THOMAS S. ENGLEDDOW, of Cedar Falls, in the county of Black Hawk and State of Iowa, have invented a new and valuable Improvement in Bee-Hives; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of my bee-hive in longitudinal vertical section.

Figure 2 is a perspective view of the hive, the main case and top being removed.

Figure 3 is a perspective view of one comb-frame.

The nature of my invention consists in certain improvements upon the bee-hive for which Letters Patent No. 86,063 have been granted to me; and

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.

A represents the base of the hive, inside of which is the inclined bottom B.

Around and near the upper edge of the base A is a rim, *a*, upon which rests the rectangle or sectional wall *z*.

On the case C rests the top D, which latter contains the honey-boxes E E, said boxes resting upon the comb-cards or frames G G, a slat bottom, H, being between them.

Within and at or near the center of the rectangle *z* are pivoted two wire or rod frames, *b b*, on opposite sides, upon which the comb-frames G G are hung by means of metal straps *d d*, attached to the end pieces

of said frames and forming hooks at their upper ends, as shown in fig. 3.

The frames *b b* extend up to or near the top of the main case C, so that the comb-cards hang exclusively within said case.

In each comb-card is a center stay, *f*, having a hole, *e*, for the bees to pass through from one card to another in winter to get food without having to pass over the top, which, in very cold weather, often destroys the life of many bees.

In the center and outside bars of the comb-cards are also staples *i i*, for fastening in comb in case of transfers.

By the addition of the rectangle or sectional wall *z* the bee-tender is enabled to remove the entire comb-case, with all its frames, from the foundation A, for cleaning and other purposes.

Having thus fully described my invention,

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

1. The combination of the wire frames *b b* and frames G G with the rectangle *z*, substantially as specified.

2. The combination of the base A with inclined bottom B, movable main case C, movable top D, wire frames *b b*, rectangle *z*, and comb-cards G G, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

THOMAS S. ENGLEDDOW.

Witnesses:

CHAS. W. ODELL,  
GEO. L. STEARNS.