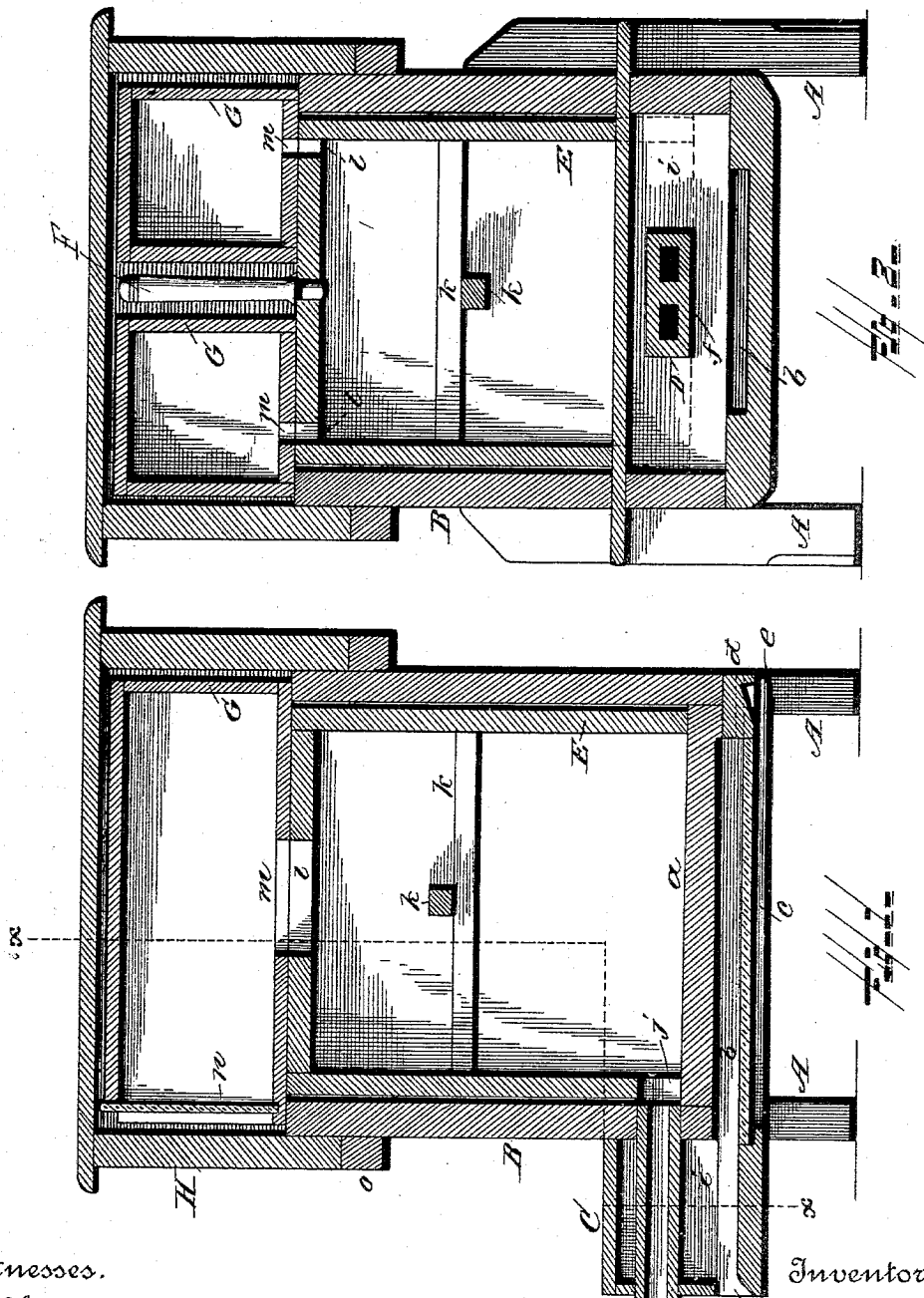


(No Model.)

J. T. ALEXANDER.  
BEE HIVE.

No. 412,060.

Patented Oct. 1, 1889.



Witnesses.

*Albert Speiden.*  
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# UNITED STATES PATENT OFFICE.

JOHN THOMAS ALEXANDER, OF ARLINGTON, KENTUCKY.

## BEE-HIVE.

SPECIFICATION forming part of Letters Patent No. 412,060, dated October 1, 1889.

Application filed June 22, 1889. Serial No. 315,220. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN THOMAS ALEXANDER, a citizen of the United States, residing at Arlington, in the county of Carlisle and State of Kentucky, 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 of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

This invention relates to certain new and useful improvements in bee-hives; and it has for its object to provide a device of this character in which provision shall be made for excluding flies and moths from the interior of the hive, and providing two sets of gums—one inclosed within the other—providing better protection for the bees in winter, and rendering the removal and replacing of the gums much easier.

The invention consists in the peculiar combination, and the construction, arrangement, and adaptation of parts, all as more fully hereinafter described, shown in the drawings, and then particularly pointed out in the appended claim.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a central vertical longitudinal section through a bee-hive constructed in accordance with my invention. Fig. 2 is a vertical section through the line *x x* of Fig. 1.

Referring now to the details of the drawings by letter, A designates the legs or supports of the hive.

The hive B is of any suitable shape, preferably substantially square, as shown in the drawings; but of course the shape will vary with the circumstances and desires of the maker.

Beneath the bottom proper *a* of the hive there is a chamber *b*, having a glass bottom *c* and a removable rear end *d*, provided upon its under side with a suitable thumb-hold *e*, as shown in Fig. 1, to aid in the removal thereof when necessary. This chamber serves as a moth-trap. Being much lighter than the

bee-entrance, the moths will be attracted by the light and consequently will enter the said chamber rather than the hive.

C is an extension to the front of the hive, and running through this extension is the tube D for the entrance of the bees, the said tube or passage being preferably divided by the partition *f*, as shown. The bottom of this tube or passage-way is extended beyond the front of the extension C to form a sort of platform *g*, on which the bees may alight. Beneath this platform there is an opening *h* into the chamber *b*, a chamber *i* being formed in the extension C around the tube or passage D, as shown.

E is the lower case, of such a size as to loosely fit the chamber or space within the hive B, and provided with a suitable opening or passage *j* in its front wall at the lower end thereof. When the inner case is in position, as shown, this opening *j* is coincident with the tube or passage-way D, so that bees entering the said tube or passage-way can readily enter the said case. Within this case are suitable bars *k*, which serve to brace the sides and serve also as rests for the bees. To the top of this case is secured a suitable handle F, projecting upwardly, as shown in Fig. 2. By means of this handle the inner case may be readily taken out or put in place. In the upper portion of this case are provided suitable holes or passage-ways *l*, which afford communication with the upper cases G, which are made separate from the lower case and from each other, and are provided in their bottoms with suitable openings or passages *m*, which, when the cases are in place, are designed to be coincident with the holes in the top of the lower case. The handle on the lower case finds space between the upper cases, as shown in Fig. 2.

The front ends of the upper cases are of glass, as shown at *n*, so as to afford inspection of the interior thereof when desired.

Around the exterior of the hive, near the top thereof, is a rail or ledge *o*, designed to support the removable cover H, the bottom edge of which rests on said ledge.

What I claim as new is—

In a bee-hive, the combination, with the hive, of the extension C, having an inlet-tube

D and a moth-passage *h i*, the glass secured  
beneath the bottom proper of said hive and  
forming a chamber *b*, communicating with the  
passage *h i*, and a removable rear side to said  
5 chamber, substantially as and for the purpose  
specified.

In testimony that I claim the above I have

hereunto subscribed my name in the pres-  
ence of two witnesses.

JOHN THOMAS ALEXANDER.

Witnesses:

HARVY SHOEMAKER,  
S. W. DUNN.