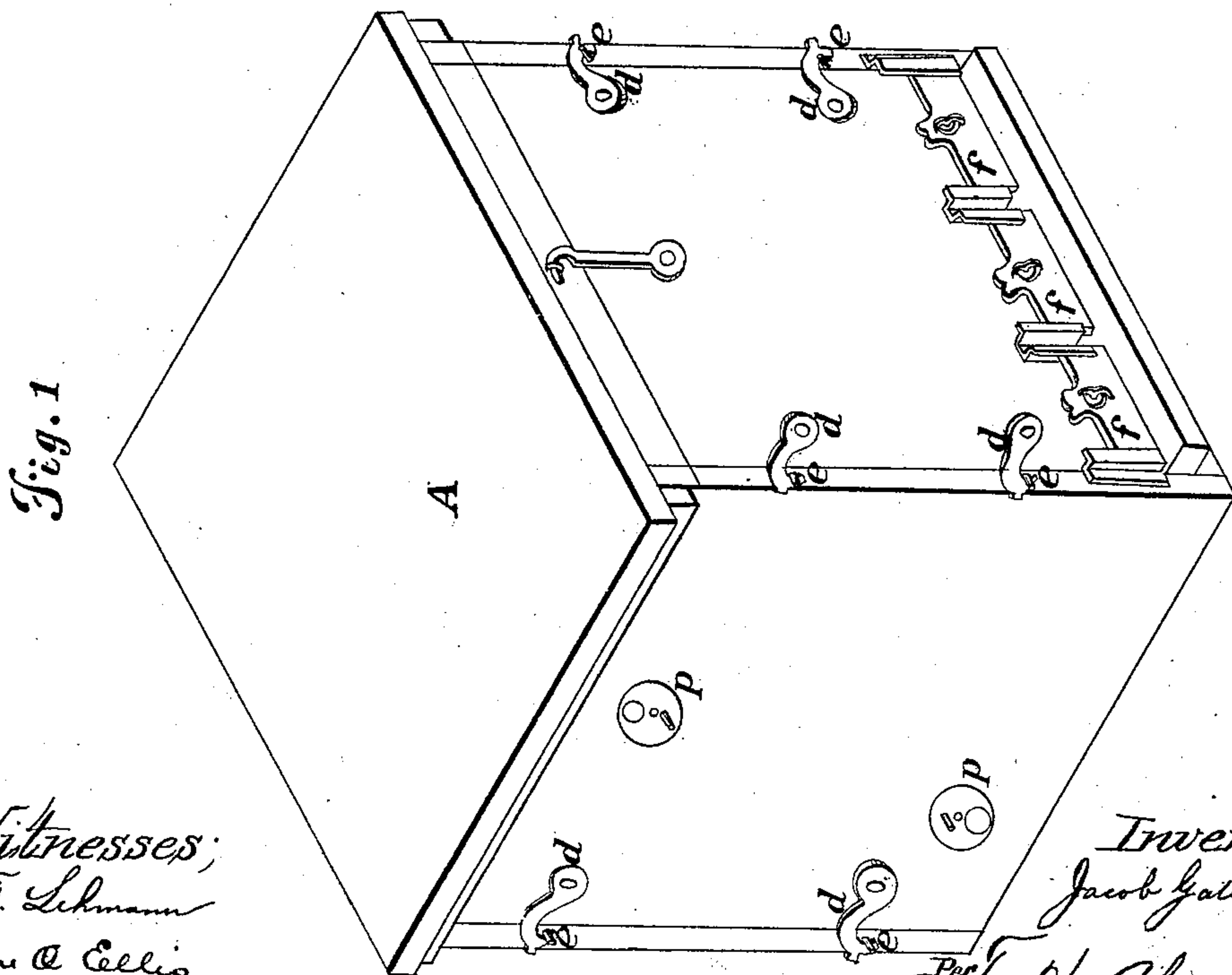
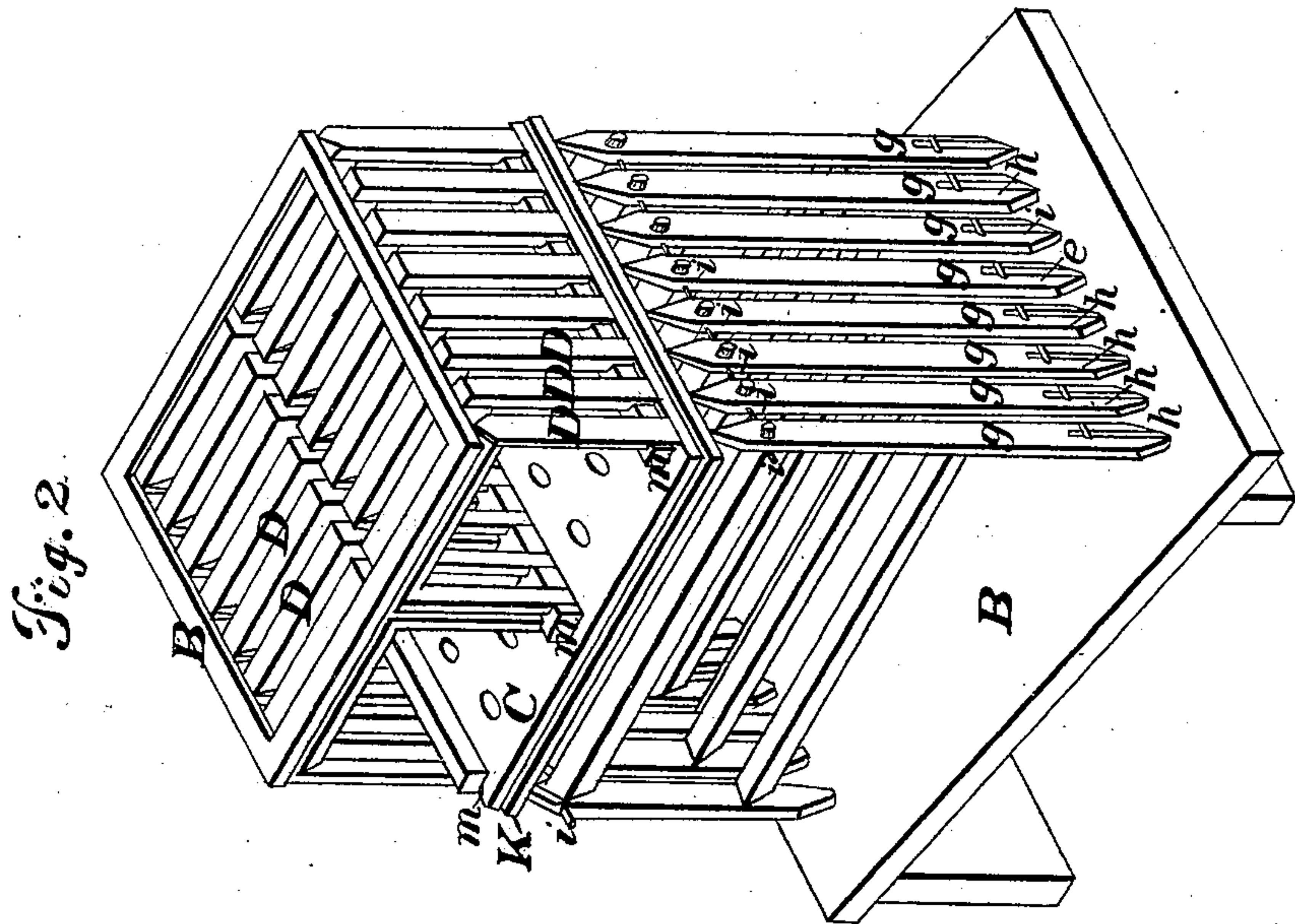


J. GATSCHET.

Bee Hive.

No. 70,989.

Patented Nov. 19. 1867.



Witnesses;  
F. Lehmann  
J. O. Ellis

Inventor  
Jacob Gatschet  
Per J. H. Alexander  
Atty.

# United States Patent Office.

JACOB GATSCHET, OF YORK TOWNSHIP, OHIO.

Letters Patent No. 70,989, dated November 19, 1867.

## 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, JACOB GATSCHET, in the township of York, county of Tuscarawas, and State of Ohio, have invented certain new and useful Improvements in Bee-Safes; and I do hereby declare that the following is a full, true, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, in which—

Figure 1 is a perspective of the box or safe, showing the manner in which its sides are secured to each other.

Figure 2 is a perspective of the inclined plane, and of the sash, and of their relative position to each other.

To enable others skilled in the art to make and use my invention, I now describe its mode of construction.

A represents the box or safe, the sides of which are connected and secured by means of hooks *d d* and pins *e e*. A sufficient space is left between the bottom, or the front piece of the safe A, and the inclined plane B, allowing a free passage to the bees in and out of the safe. This front piece is provided with sliding shutters *f f*. A small space should intervene between the said shutters, as represented in fig. 1. B is an inclined plane, upon which stand the sash *g g*, one end of which should be as much shorter than the opposite end as is necessary for the said sash to be perfectly level at their tops, when in proper position upon the inclined plane B, as fully shown in fig. 2. The cross-pieces of the sash *g g* are so bevelled on their tops as to prevent any accumulation of refuse matter upon them. *i i i* are small pins in the sides of sash *g g*, which prevent them from being placed in close proximity to each other. *h h* represent wires, secured at the bottom of the sash *g g*, which enter small holes in the inclined plane B, which serves to retain the said sash in an upright position. It will be observed that the top of the sash is sharpened, as seen in fig. 2, the object of which will be more fully appreciated hereafter. *k* is a frame of glass placed upon the top of the sash *g g*. C represents a cap-piece, consisting merely of a board of suitable dimensions, which is perforated with holes, in order that a free passage may be provided for the bees from the bottom to the top of the hive. When it is desirable to keep the bees in the upper portion of the hive separated from those in the lower portion, the glass frame *k* is used. The cap-piece C is provided with slotted slats *m m m*. D D represent a double row of sash. Said sash are retained in an upright position by means of the slots in slats *m m m*. E is a frame of glass, which rests upon and covers the sash D D. *p p* are ventilators in the sides of safe A.

It will thus be seen that my arrangement for a bee-hive is at once simple, effective, and economical.

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

1. The case A, when constructed and put together in the manner and for the purpose set forth.
2. The inclined plane B, in combination with the frames or sash *g g g*, when said sash are constructed as and for the purpose described.
3. The cap-piece C, in combination with sash D D, as and for the purpose specified.
4. Inclined plane B, sash *g g*, D D, cap-piece *e*, and glass frame *k* and B, all arranged as and for the purpose set forth.

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

JACOB GATSCHET.

Witnesses:

WM. CAMPBELL,

A. W. PATRICK.