

(No Model.)

S. LIPP.
BEE HIVE STAND.

No. 416,931.

Patented Dec. 10, 1889.

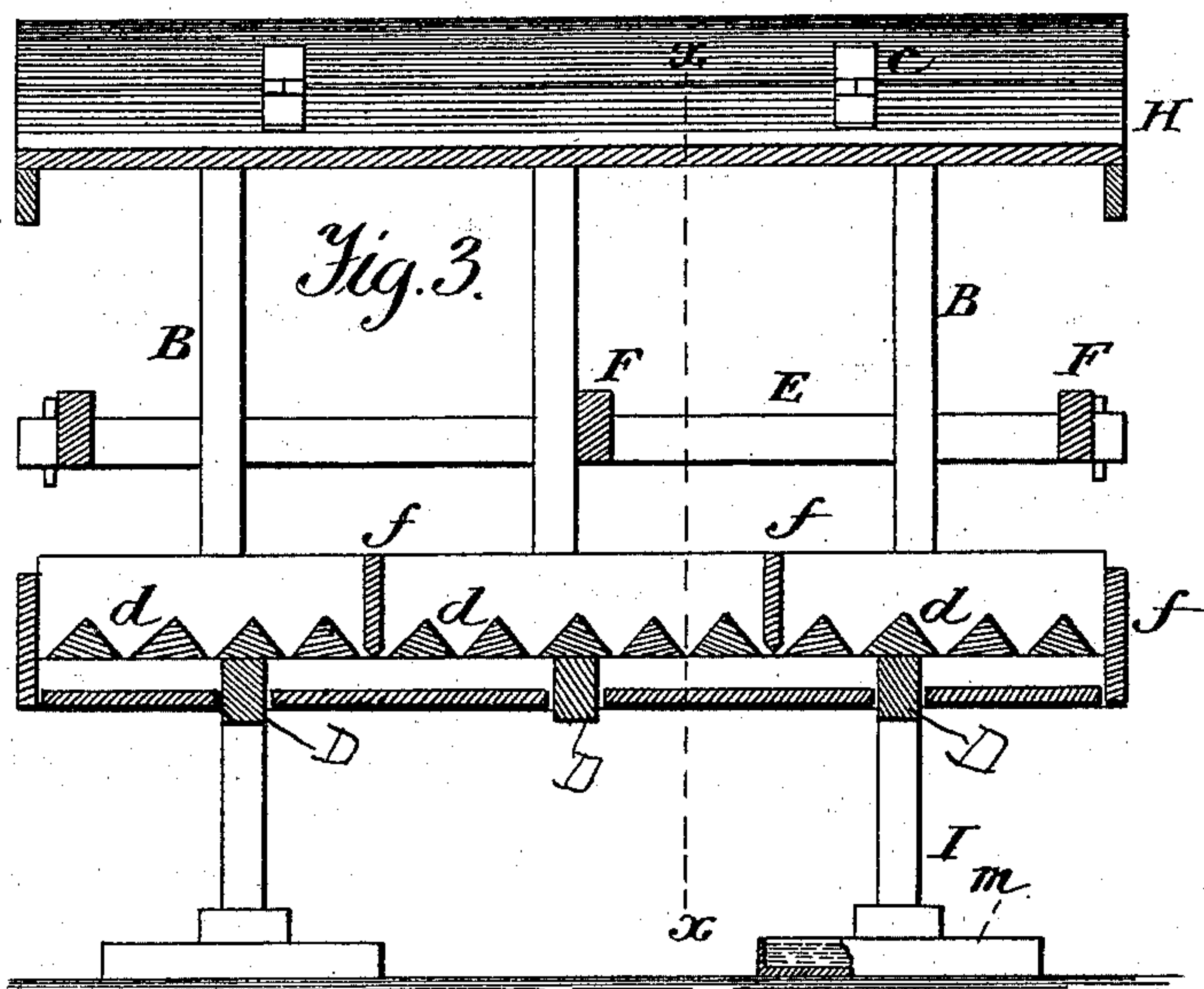
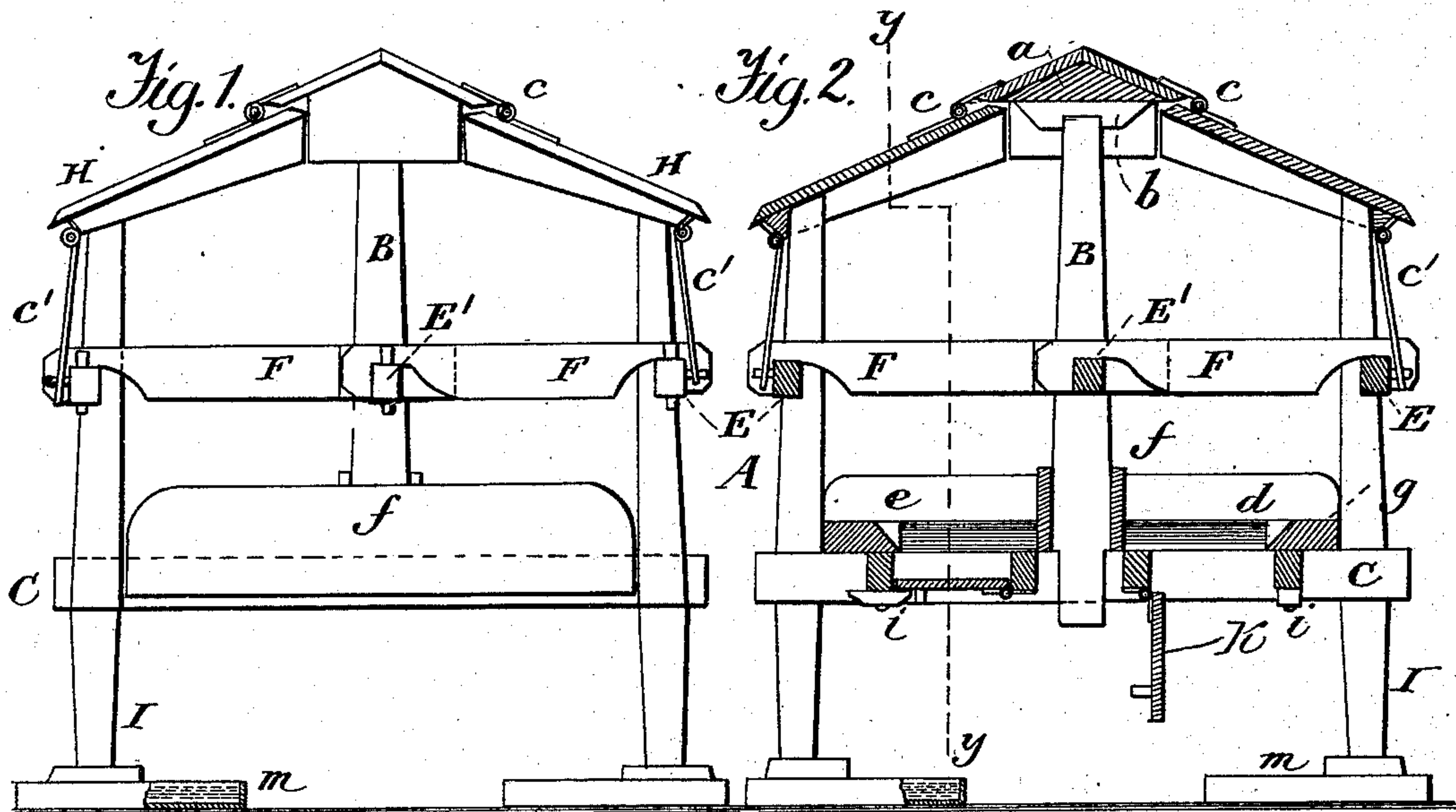


Fig. 4.



Fig. 5.



Fig. 6.

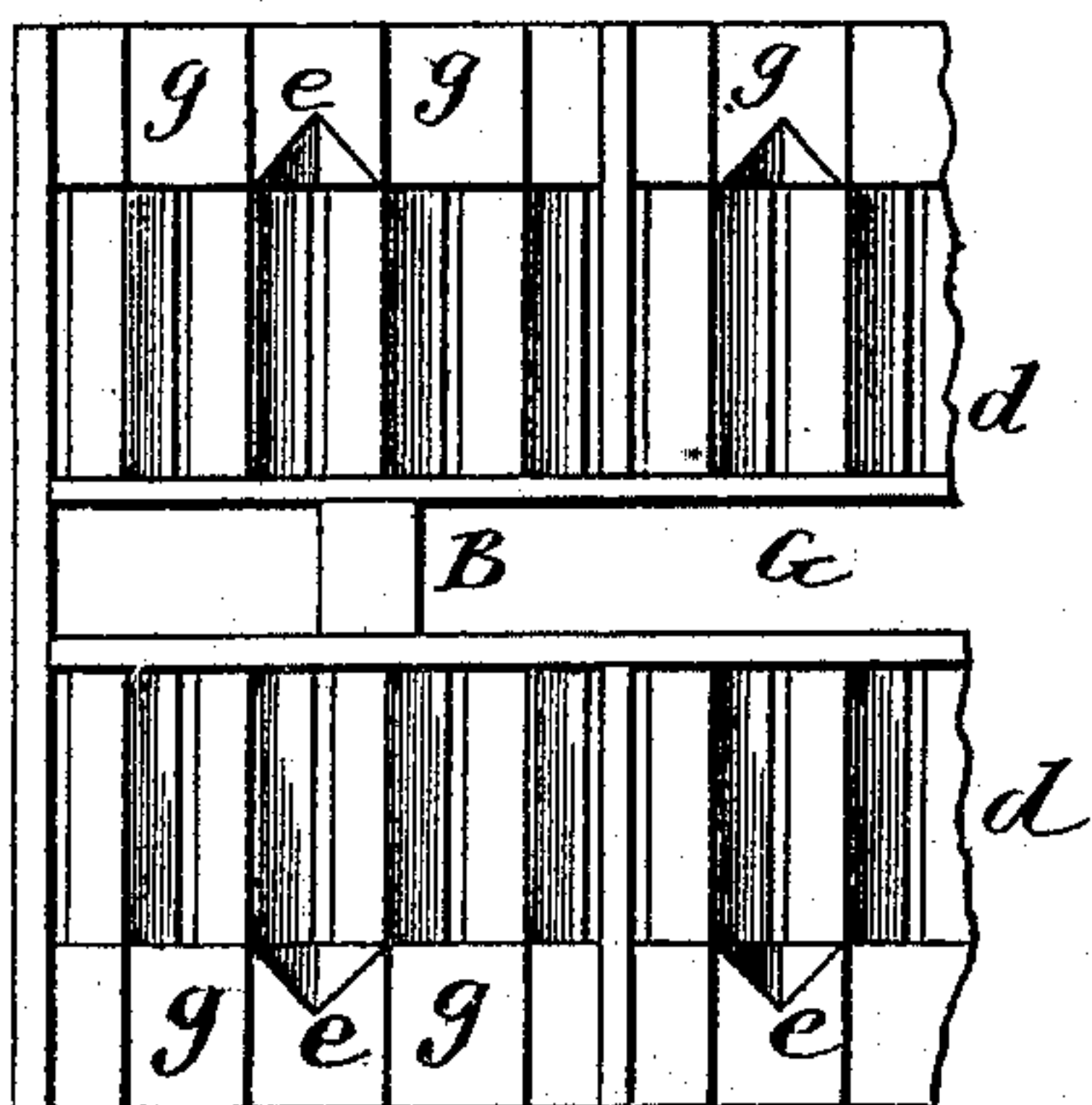
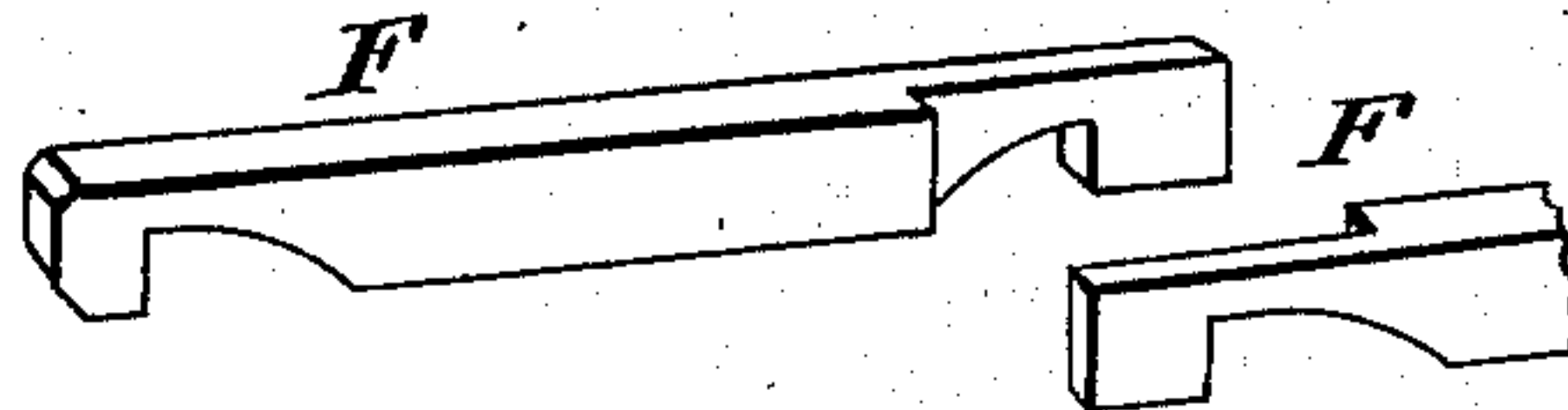


Fig. 7.



Witnesses.
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UNITED STATES PATENT OFFICE.

SIMPSON LIPP, OF STONEWALL, TEXAS.

BEE-HIVE STAND.

SPECIFICATION forming part of Letters Patent No. 416,931, dated December 10, 1889.

Application filed August 27, 1889. Serial No. 322,144. (No model.)

To all whom it may concern:

Be it known that I, SIMPSON LIPP, a citizen of the United States, residing at Stonewall, in the county of Gillespie and State of Texas, have invented certain new and useful Improvements in Bee-Hive Stands; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it ap-
10 pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to stands for holding
15 bee-hives; and it consists in an improved construction of stand, as hereinafter described and claimed.

In the accompanying drawings, Figure 1 represents an end view of a bee-hive stand
20 provided with my improvements. Fig. 2 is a vertical transverse section of the same, taken on line *x x* of Fig. 3. Fig. 3 is a vertical section taken on line *y y* of Fig. 2. Figs. 4 and 5 represent angular blocks which are
25 placed in connection with the flooring. Fig. 6 represents a part of the floor in plan view. Fig. 7 illustrates the ties used to secure certain parts of the frame.

As illustrated in the drawings, the stand is
30 constructed to hold two rows of hives, said two rows to face in opposite directions. The main frame consists of the side standards A, the standards B, located along the longitudinal center of the structure, cross-beams C,
35 which support said standards, longitudinal beams D, which support the flooring, and the side bars or side beams E and central beam E', which are secured to the standards A and B by the tie-bars F, which are provided with
40 notches or hooks at their extremities to receive or hook on the said beams E E'. The frame is provided with a roof, the central part forming the ridge being placed on a crown-plate *a*, which is supported by the central
45 standards B and the cleats *b*, connected with the upper extremities of said standards. To the said central part of the roof are hinged at *c* the inclined lids H, which rest at their
50 outer edges on the side standards A. These lids, which form parts of the roof, may be secured, when closed, by suitable fastenings, as the hasps *c'*, to the side bars E. The said lids may be raised when it is desired to remove or replace any of the hives.

The floor of the stand is formed of the slats
55 *d*, which are made triangular in cross-section, as shown in Fig. 3, and are so placed that cracks are left between them for the discharge of falling refuse matter. The floor is constructed in two sections, a longitudinal opening G
60 being left between them, and divisions are formed to receive the several hives by the boards *f*. Along the outer edge of each section of the floor, so as to be in front of a row of hives, a platform is formed for the bees by
65 means of the triangular blocks *g*, which fit between the slats *d* and form a level surface. At intervals a block *g* has a notch *e* made in its inner end, which forms an opening or entrance through which the bees can pass under
70 the front wall of the hive to the interior, one notched block *g* being in front of each hive. Below the slats *d* a number of hinged trap-
75 doors *k* are hinged to the longitudinal bars D, on which the slats rest, one lid being under each hive. These lids open downward, and may be kept closed during cold weather, being secured by buttons *i*.

The stand is provided with legs I, each of which has a shallow vessel *m* secured to it, so
80 that water or other fluid poured in the vessel surrounds the leg and prevents the access of vermin to the hives on the stand.

I claim—

1. In a bee-hive stand, the combination, with
85 a floor, of a frame provided with opposite side standards and a row of central standards, the longitudinal side bars, and a central longitudinal bar connected with said standards, tie-bars F, constructed to hook on said longi-
90 tudinal bars, and a roof provided with hinged lids and supported by said side and central standards, substantially as and for the purposes described.

2. The combination, with the supporting-
95 beams of the floor, of the angular slats *d*, angular blocks *g*, a part of said blocks being provided with notches *e*, and a series of hinged trap-doors located under the said slats, substantially as set forth and described. 100

In testimony whereof I affix my signature in presence of two witnesses.

SIMPSON LIPP.

Witnesses:

WM. BIERSCHWALE,
L. E. FORSYTH.