

PATENTED

J.M. Patton's Imp'd Bee-Hive.

FEB 11 1868

74415

Fig. 1

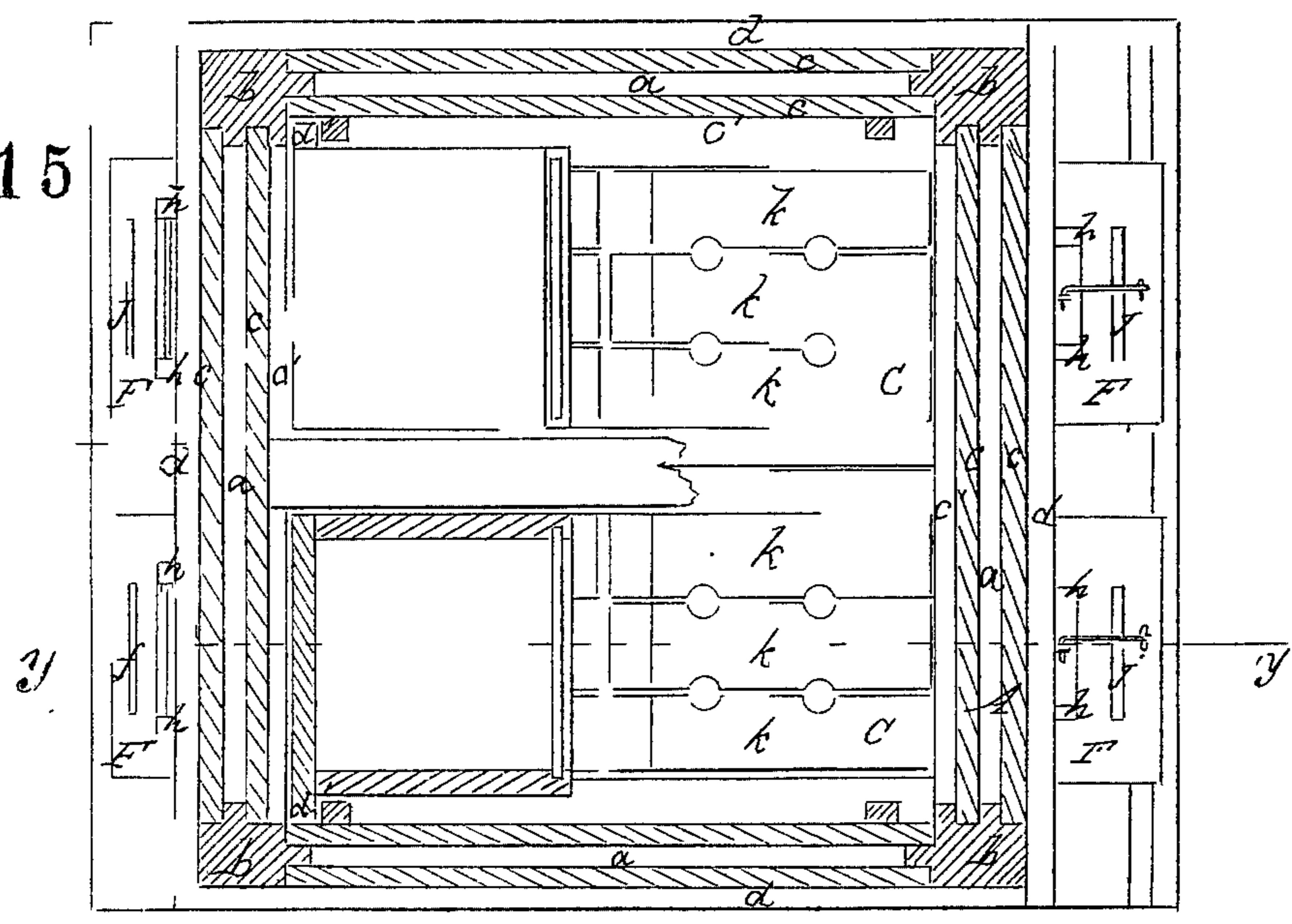
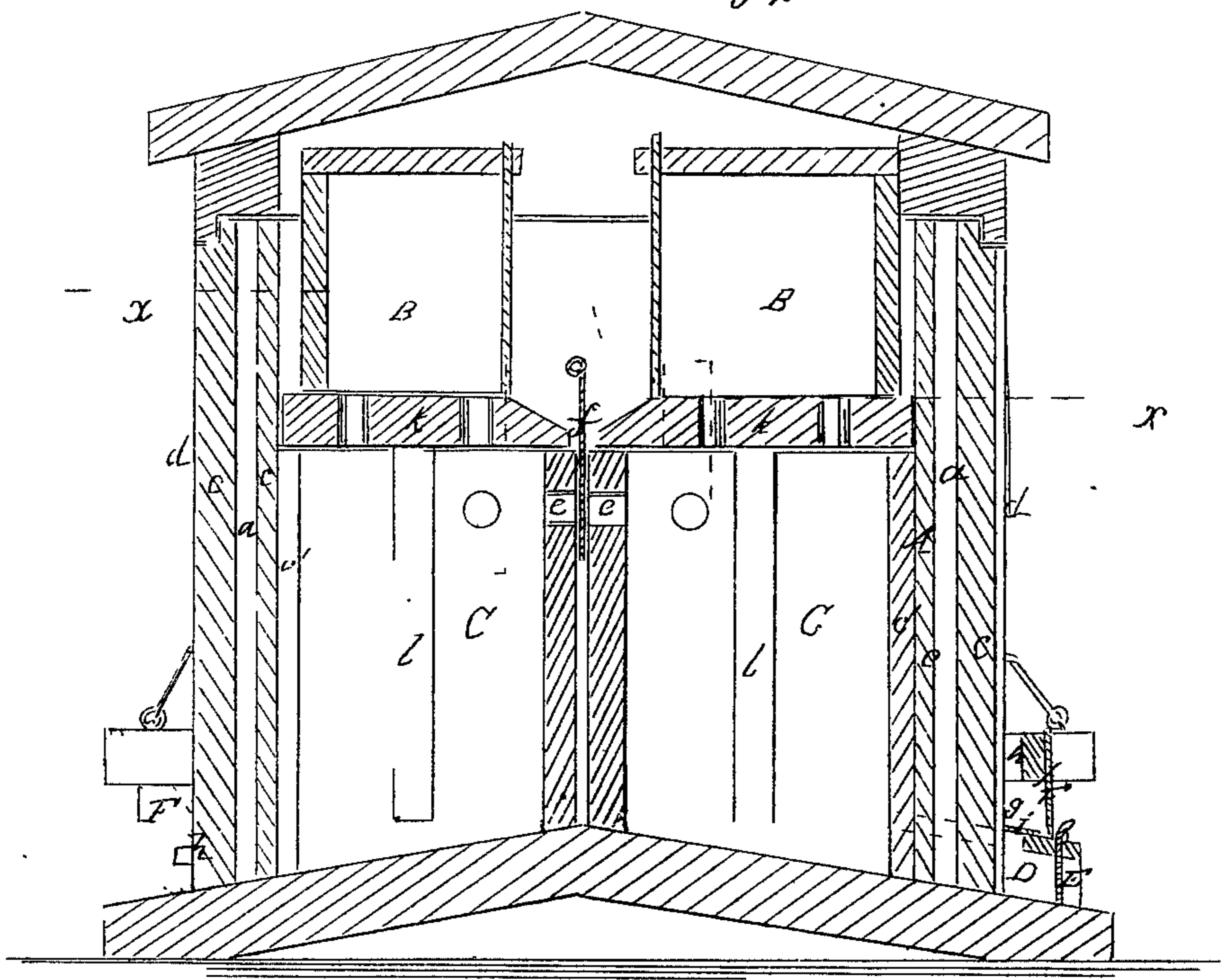


Fig. 2



Witnesses,  
 Theo. Inwache  
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# United States Patent Office

JOSIAH M. PATTON, OF TIPTON, IOWA.

Letters Patent No. 74,415, dated February 11, 1868.

## 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, JOSIAH M. PATTON, of Tipton, in the county of Cedar, and State of Iowa, have invented a new and improved Bee-Hive; and that the following description, taken in connection with the accompanying drawings, hereinafter referred to, forms a full and exact specification of the same, wherein I have set forth the nature and principles of my said improvements, by which my invention may be distinguished from all others of a similar class, together with such parts as I claim and desire to have secured to me by Letters Patent.

This invention consists in a new and improved mode of constructing the hive, whereby the temperature of the same is rendered quite uniform, the bees and contents of the hive being protected from severe cold in winter and from heat in summer.

The invention also consists in a new and improved trap for protecting the bees from the ravages of the bee-moth. In the accompanying sheet of drawings—

Figure 1 is a horizontal section of my invention, taken in the line  $x x$ , fig. 2.

Figure 2, a vertical section of the same, taken in the line  $y y$ , fig. 1.

Similar letters of reference indicate like parts.

A represents the body of the hive, which is constructed with double walls, and in such a manner as to allow a space,  $a$ , at each side of the hive, to receive a non-conducting material, such as paper, charcoal, plaster of Paris, or other suitable substance. The four corner-posts,  $b$ , are grooved to receive the walls  $c c c'$ , the space  $a$  being between  $c c$ . The outer wall  $c$  has an external wall,  $d$ , secured to it, and the inner wall  $c'$  does not extend up as high as the others. The upper honey-boxes B are retained in their place by cleats  $d'$ , which are attached to them at one side, and fit in grooves made in the posts  $b$ . The hive represented in the drawings is designed for four colonies of bees, each having a separate entrance, and the lower or bread-boxes C communicate with each other by means of openings  $e$ , which may be cut off or closed when desired by means of slides  $f$  arranged or applied in any suitable manner. The top or cap of the hive may be constructed double, with a non-conducting substance between, like the sides of the hive, or a single thick or heavy piece of plank may be used; a single or double pitch may be given the cap or top. D represent tubes, which serve as the bee entrances, and project beyond the sides of the hive. These tubes have perforated slides E in their outer ends, by closing which the bees may be confined in the boxes, and air admitted to the latter. F represent moth-traps, which are composed of boxes, arranged so as to fit over the projecting ends of the tubes D, and form chambers  $g$ , to receive the eggs deposited by the moths. Apertures or holes,  $h$ , are made in the sides and tops of these boxes, through which the moths pass, attracted by the odor from the hive, which passes up through a perforated metal plate,  $i$ , on the tops of the projecting ends of the tubes D, as shown in fig. 2. The front upper parts of these boxes are provided with glasses,  $j$ , through which the interior of the chambers  $g$  may be seen, and the latter cleaned out whenever necessary. The comb-frames are each composed of a single upper bar,  $k$ , provided with a central pendent bar,  $l$ , as shown clearly in fig. 2. These frames support the comb firmly, and are simple and economical in construction, and capable of being readily fitted in and taken out from the boxes. They also insure the combs being built straight by the bees.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent—

The corner-posts  $b$ , when grooved their entire length upon two sides, to receive the walls  $c c'$ , with a space,  $a$ , between them, the outer wall  $c$  having an external covering,  $d$ , secured to it, as herein shown and described.

JOSIAH M. PATTON.

Witnesses:

S. V. LANDT,

W. P. WOLF.