

A. H. Klepper. Bee Hive.

No. 119,366.

Patented Sep. 26, 1871.

Fig. 1.

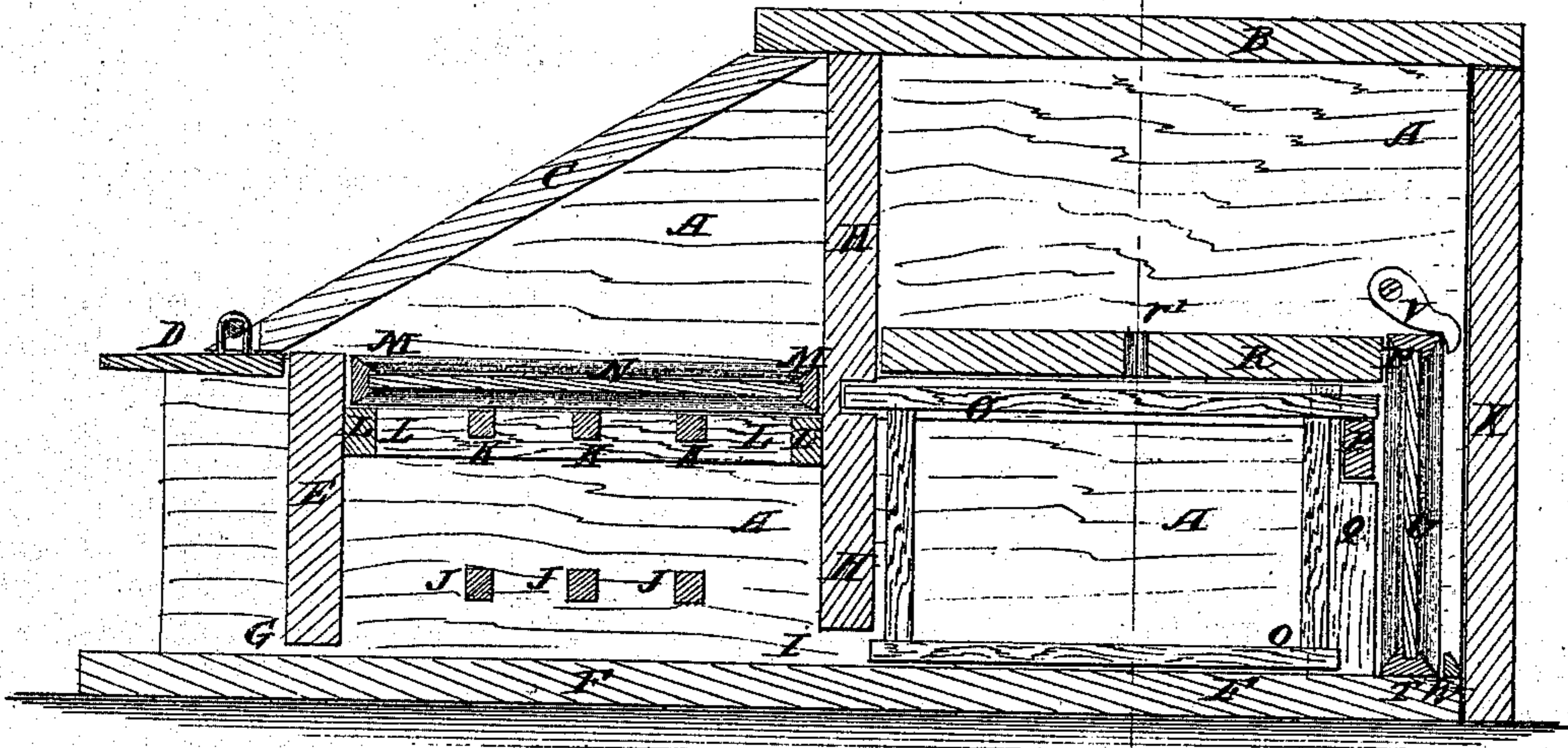
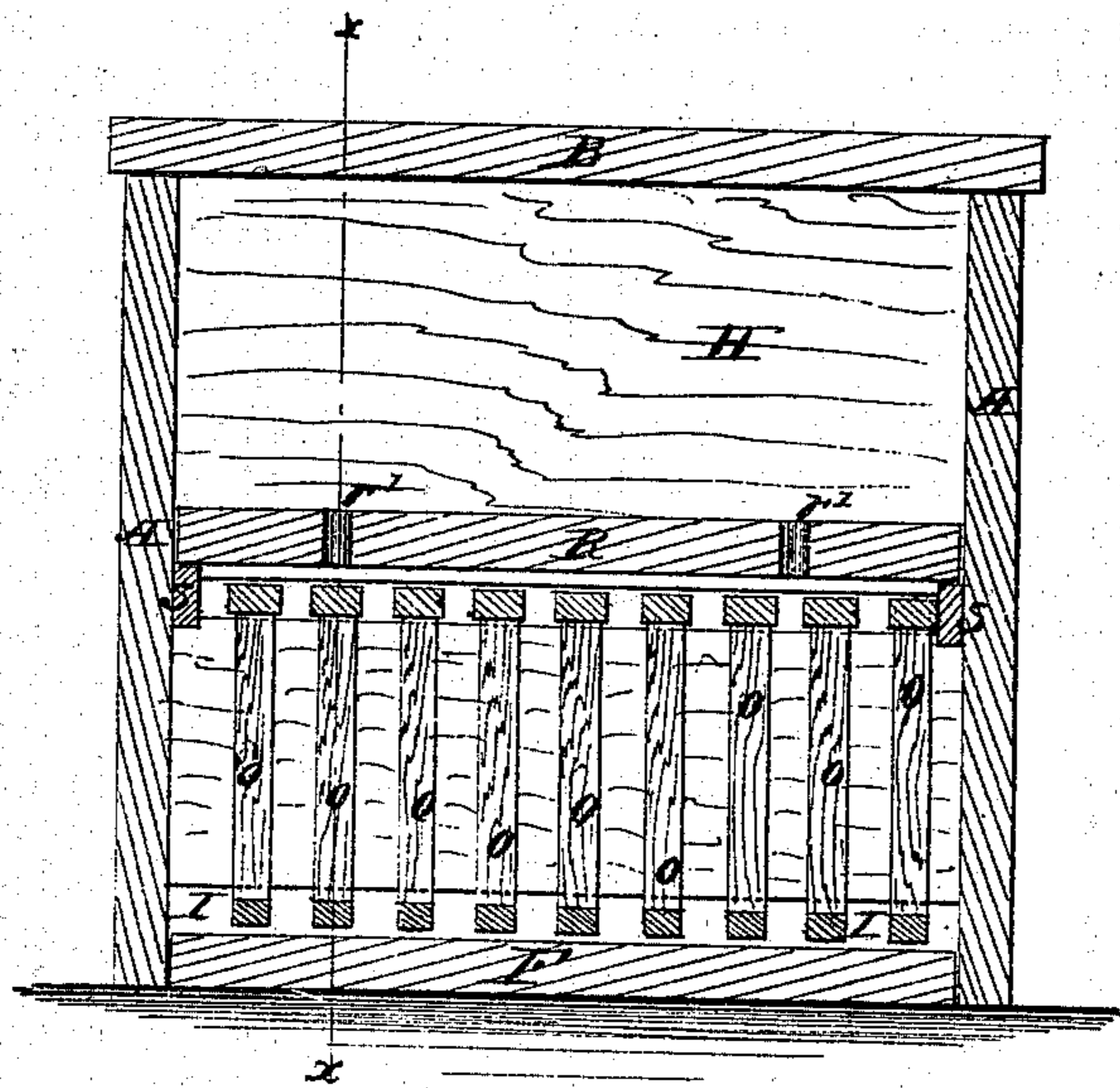


Fig. 2.



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UNITED STATES PATENT OFFICE.

ALFRED H. KLEPPER, OF MUSCATINE, IOWA.

IMPROVEMENT IN BEE-HIVES.

Specification forming part of Letters Patent No. 119,366, dated September 26, 1871.

To all whom it may concern:

Be it known that I, ALFRED H. KLEPPER, of Muscatine, in the county of Muscatine and State of Iowa, have invented a new and useful Improvement in Bee-Hive; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a vertical longitudinal section of my improved bee-hive taken through the line *x*, Fig. 2. Fig. 2 is a vertical cross-section of the same taken through the line *y y*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved bee-hive, which shall be simple in construction, effective in operation, and convenient in use, enabling the comb to be readily removed at any time and the condition of the bees to be easily inspected whenever desired; and it consists in the construction and arrangement of certain parts of the hive, as hereinafter more fully described.

A are the side-boards of the hive, which are vertical, and the forward part of their upper edges are beveled off or inclined, as shown in Fig. 1. B is the stationary part of the top or cover of the hive, which is horizontal, and is securely attached to the horizontal parts of the upper edges of the side-boards A, and the forward edge of which projects a little over the inclined parts of the top edges of said side-boards A, so as to overlap the beveled upper edge of the inclined detachable part C of the top or cover of the hive. The board or cover C rests upon the inclined parts of the edges of the side-boards A, and its lower edge, which is beveled upon its lower side, rests upon the eaves-board D, which projects over the forward end E of the hive. The end E is vertical, and is set back a little from the forward edges of the side-boards A, so as, in connection with the eaves-board D, to protect the entrance of the hive from the weather. The lower edge of the front end-board E does not extend down quite to the bottom-board F, a space, G, being left to serve as a passage-way for the entrance and egress of the bees. The hive is divided into two compartments by a partition, H, which is placed at or near the angle of the upper edges of the side-

boards A. The partition H does not extend quite to the bottom-board F, a space, I, being left for the passage of the bees from one of said compartments to the other. J K are the permanent comb-bars, the ends of the lower ones J of which are attached to the side-boards A, and the upper ones K of which are attached to or are connected with cleats or a frame, L, attached to the side-boards A, front end-board E, and partition-board H. M is a frame, which rests upon the cleats or frame L, and in which is set a glass plate, N, so that the condition of the bees may be seen by simply removing the inclined detachable cover C. O are the detachable comb-frames, the projecting inner ends of the top bars of which enter and rest in a horizontal groove formed in the partition-board H. The projecting outer ends of the top bars of the frames O rest upon a cross-bar, P, the ends of which enter and rest in notches formed in the upper ends of upright cleats Q attached to the side-boards A, so that, by removing the said cross-bar P, any desired number of the comb-frames may be conveniently removed. R is a horizontal partition, which rests upon cleats S attached to the side-boards A, and which support the honey-boxes. The partition R has holes *r'* formed through it, through which the bees pass into the honey-boxes. T is a frame in which is set a glass plate, U, and which rests against the forward edges of the partition R and of the vertical cleats Q. This enables the condition of the bees and the progress of the combs to be conveniently seen when desired. The frame T is secured in place at its upper edge by catches V pivoted to the side-boards A, and at its lower edge by a cleat, W, attached to the bottom F in front of said frame. X is the rear end-board, which is hinged at one of its side edges to the end edge of one of the side-boards A, and is secured at its other side edge to the end edge of the other side-board A by a hook and staple, or eyebolt, or other convenient fastening.

The rear division of the hive contains the movable combs below and receives two honey-boxes above. All of these communicate with each other, and are easily accessible to the bees. The boxes can easily be reached through the hinged board X either to see and remove insects, or, when the bees are driven by smoke to the front of the hive, to remove the honey. The front division of the hive contains below the stationary

combs for the use of the bees in winter, and above a chamber through which access is obtained to the front of the hive, which is liable to be infested with moths. A careful observation should be frequently made, and when moths are discovered they should be instantly removed.

Having thus described all that is necessary to a full understanding of my invention, what I esteem to be new, and desire to protect by Letters Patent, is—

The front division or section of the hive, having the stationary comb-frames J K and the transparent frame M N made approachable by the removable cover C, as specified.

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Witnesses:

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