

N. D. HAYDEN.
BEE-HIVE.

No. 182,190.

Patented Sept. 12, 1876.

Fig. 1.

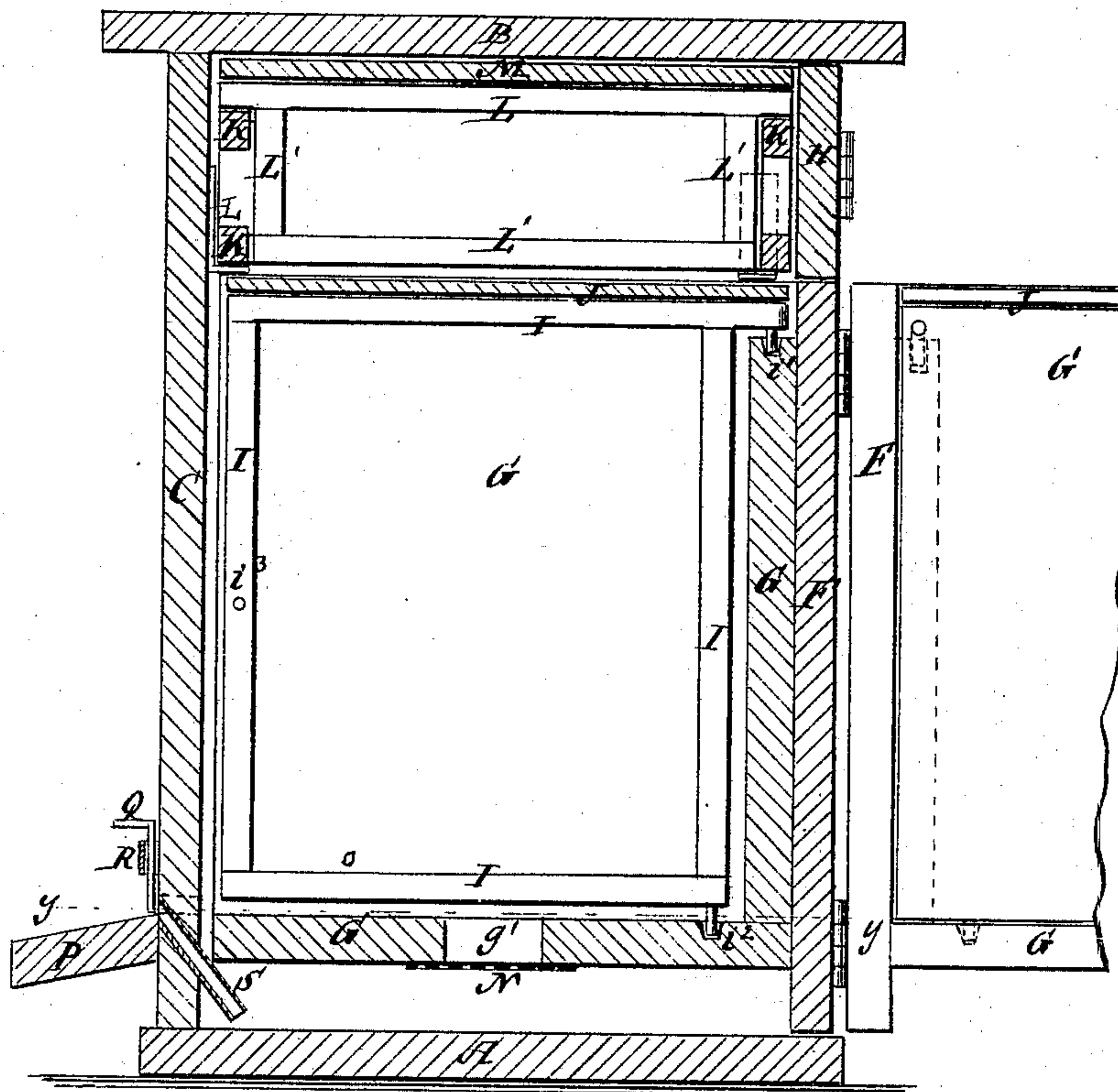
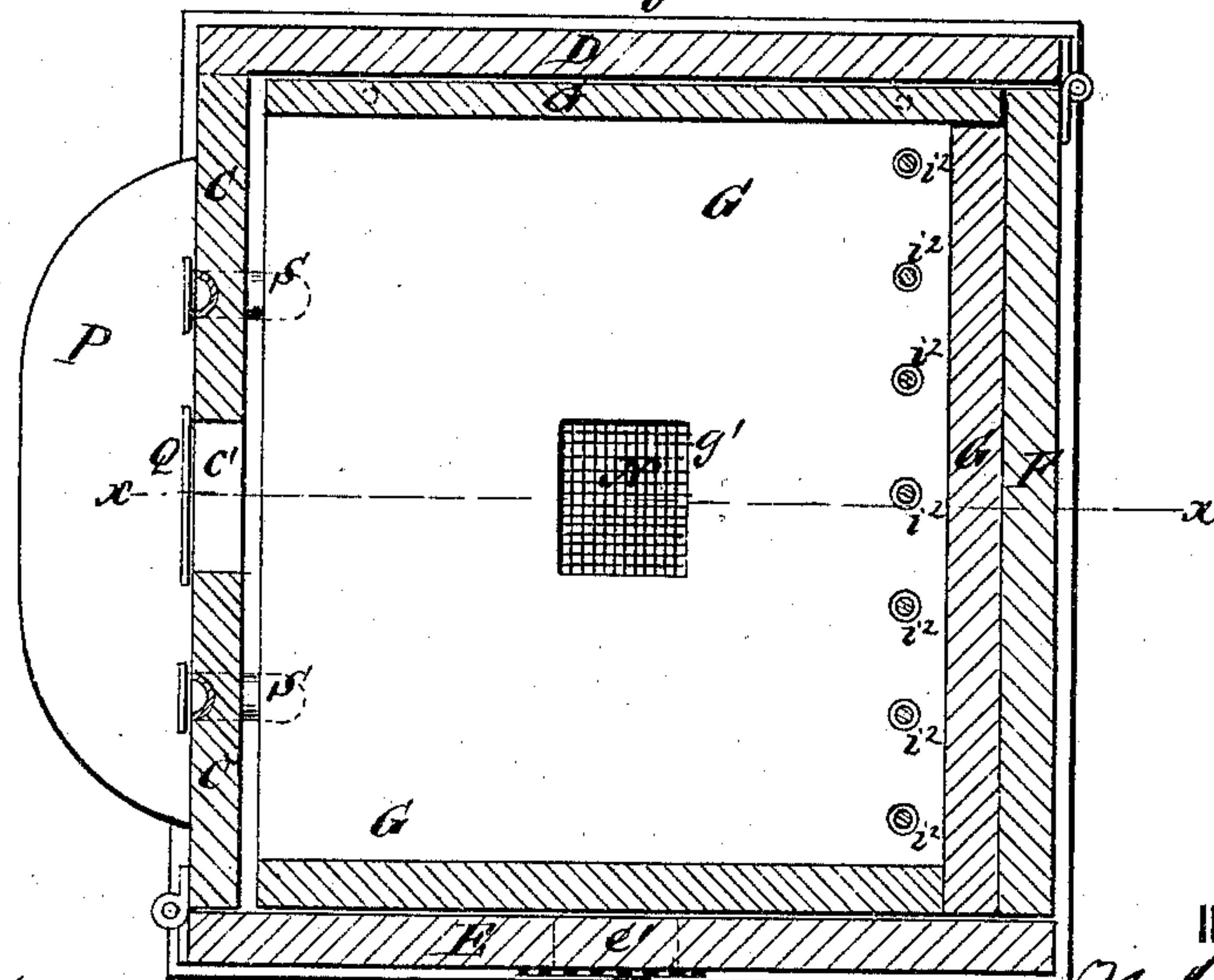


Fig. 2.



WITNESSES:

Wm. H. Coffey
John Coethals

INVENTOR:

N. D. Hayden
Wm. H. Coffey

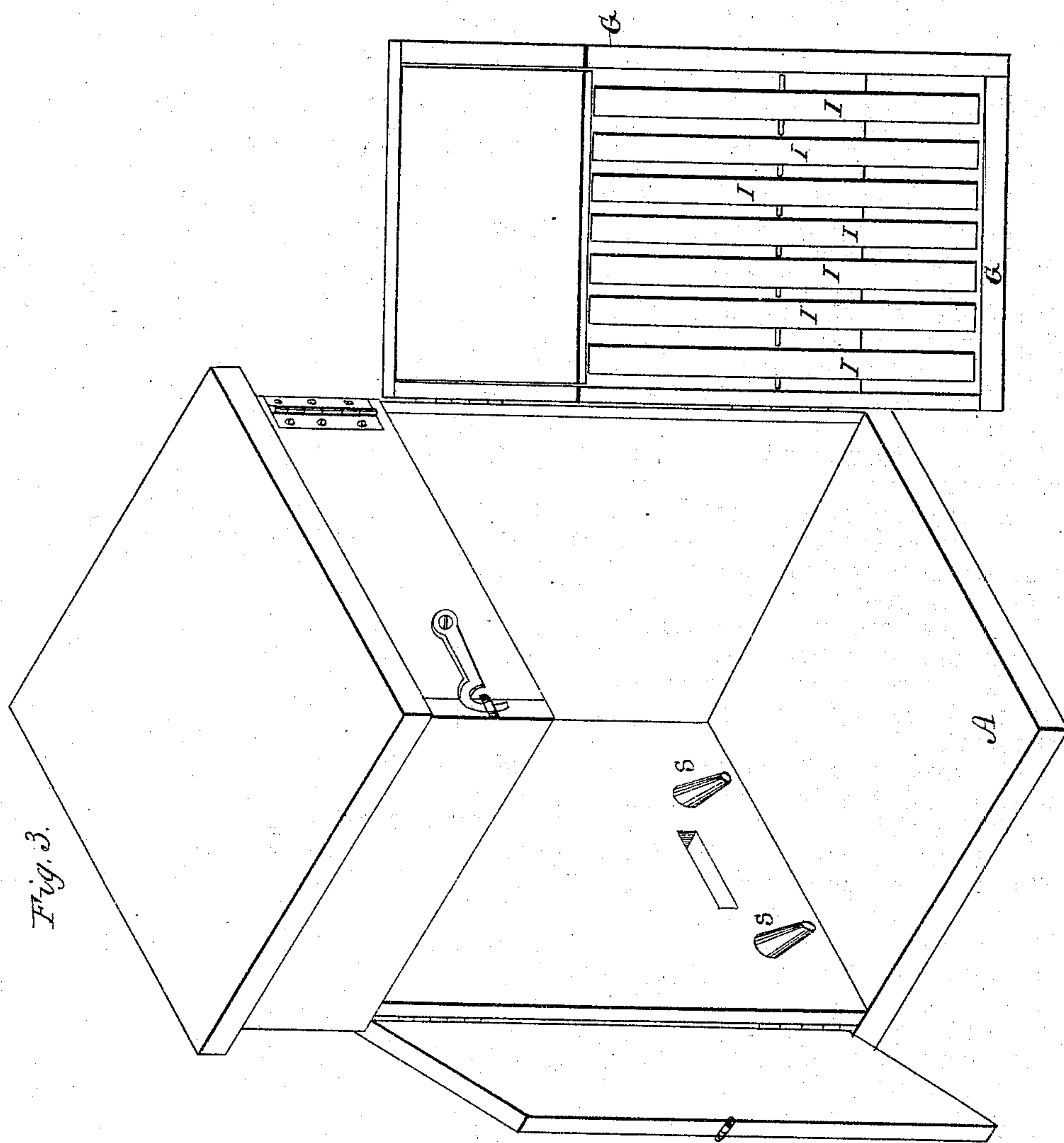
BY

ATTORNEYS.

N. D. HAYDEN.
BEE-HIVE.

No. 182,190.

Patented Sept. 12, 1876.




WITNESSES:

WITNESSES:
J. C. Kameron
L. A. Pettit

INVENTOR:

INVENTOR:
Noah D. Hayden

BY

BY  **ATTORNEYS.**

ATTORNEYS.

UNITED STATES PATENT OFFICE.

NOAH D. HAYDEN, OF DALLAS, TEXAS, ASSIGNOR TO HIMSELF AND
AMASA O. CLAPP, OF SAME PLACE.

IMPROVEMENT IN BEE-HIVES.

Specification forming part of Letters Patent No. 182,190, dated September 12, 1876; application filed
June 12, 1876.

To all whom it may concern:

Be it known that I, NOAH D. HAYDEN, of Dallas, in the county of Dallas and State of Texas, have invented a new and useful Improvement in Bee-Hive, of which the following is a specification:

Figure 1 is a vertical section of my improved bee-hive taken through the line *xx*, Fig. 2. Fig. 2 is a horizontal section of the same, taken through the line *yy*, Fig. 1. Fig. 3 is a perspective view, showing the brood-chamber swung out.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved bee-hive, which shall be so constructed as to enable the bees to be conveniently inspected and taken care of, which will protect the bees from the moth, will keep the hive thoroughly ventilated, and will enable the honey to be readily removed from the honey-frame without disturbing the brood-chamber.

The invention will first be described in connection with the drawing, and then pointed out in the claim.

A is the bottom, and B is the top, of the hive, to which are attached the end edges of the front C, and one side, D. The other side, E, is securely hinged to the edge of the front C. F is the back, the edge of which is hinged to the edge of the stationary side D. The adjacent edges of the hinged back F and side E are secured to each other when closed by hooks and eyes, or other suitable fastenings. G is the brood-chamber, the top and front of which are open, and the back of which is securely attached to the back F of the hive, so that by swinging the side E open the brood-chamber G may be swung out, giving convenient access to its open side. The inner or left-hand side of the brood-chamber G is made detachable, so that it may be removed to give convenient access to the said brood-chamber, and enable the comb-frames to be readily separated and removed. The hinged side E and back F do not extend up to the top B, a space being left to form a honey-chamber, the back of said space being closed by a hinged door, H. I are the comb-frames of the brood-cham-

ber, the rear ends of the top bars of which project and rest upon the upper edge of the back F of the brood-chamber, and have pins *i*¹ attached to their lower sides to enter holes in the said upper edge. The back of the brood-chamber G is made so much lower than its sides and the back F that the top of the comb-frames I may be a little lower than said sides and back, to leave space for the removable top J. To the rear ends of the bottom bars of the comb-frames I are attached pins *i*², which rest in recesses in the bottom A, to prevent the rear part of the frames I from getting out of place. To the sides of the front bars of the frames I are attached pins *i*³, which rest against the side bars of the adjacent frames, and against the sides of the brood-chamber, to keep the forward parts of said frames from getting out of place laterally.

In the space above the brood-chamber G is fitted the honey-frame K, which rests upon brackets L attached to the front and sides of the hive. Upon the front and rear top bars of the frame K rest the projecting ends of the top bar of the comb-frames L'. Upon the top bars of the comb-frames L' rests a movable top, M. The movable tops J M prevent the bees from fastening the comb-frames to the hive, and thus making their removal difficult. In the bottom of the brood-chamber G is formed an opening, *g g'*, to allow air to enter said chamber, and which is closed by a wire-gauze, N, attached to the lower side of said bottom. Air is admitted into the space beneath the brood-chamber G through an opening, *e'*, in the lower part of the side of the hive, which opening is closed by a wire-gauze, O, attached to the said side. To the front C of the hive, and about in line with the bottom of the brood-chamber G, is attached a flange, P, for the bees to alight upon, and which inclines downward, so that rain will flow off. In the front C of the hive, just above the flange P, is formed an opening, *e'*, through which the bees enter and leave the hive, and which is closed, when desired, by a slide, Q, placed in a keeper, R, attached to said front C. In the front C of the hive, at one or both sides of the passage *e'*, are formed downwardly-inclined holes, in which are se-

cured tubes S, the lower ends of which extend nearly to the bottom A of the hive, and which are designed to serve as a trap for the moths, who, in seeking an entrance to the hive, enter the tubes S, and pass down into the space beneath the brood-chamber G, whence they cannot escape.

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

The combination of the hive, having hinged side E and back F, with a brood chamber, G, having its back secured to the hinged back F, as set forth.

NOAH DUNKEN HAYDEN.

Witnesses:

JAMES K. P. SMITH,
W. P. RICAS.