

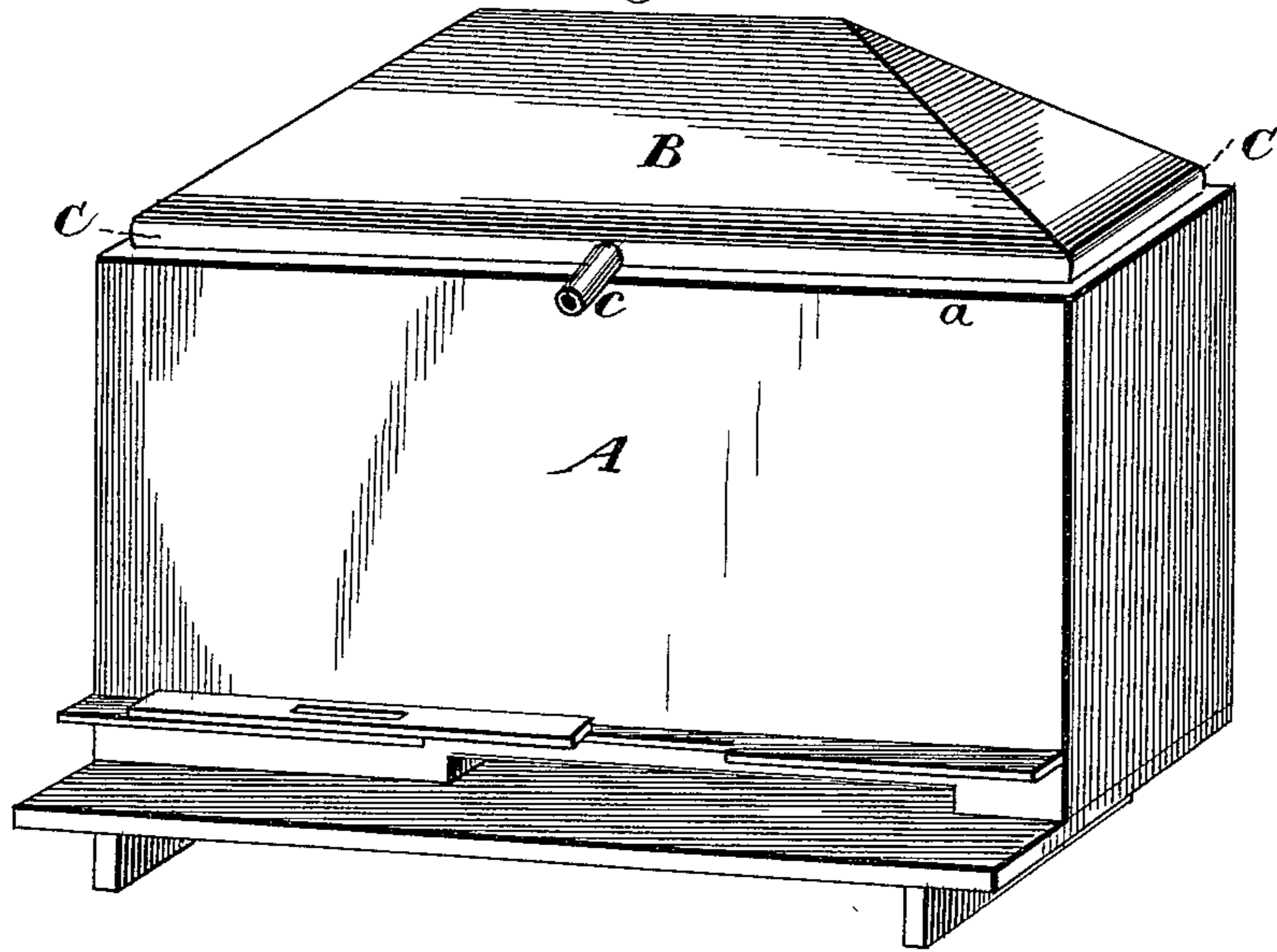
(No Model.)

P. H. ACKLEY.  
BEE HIVE.

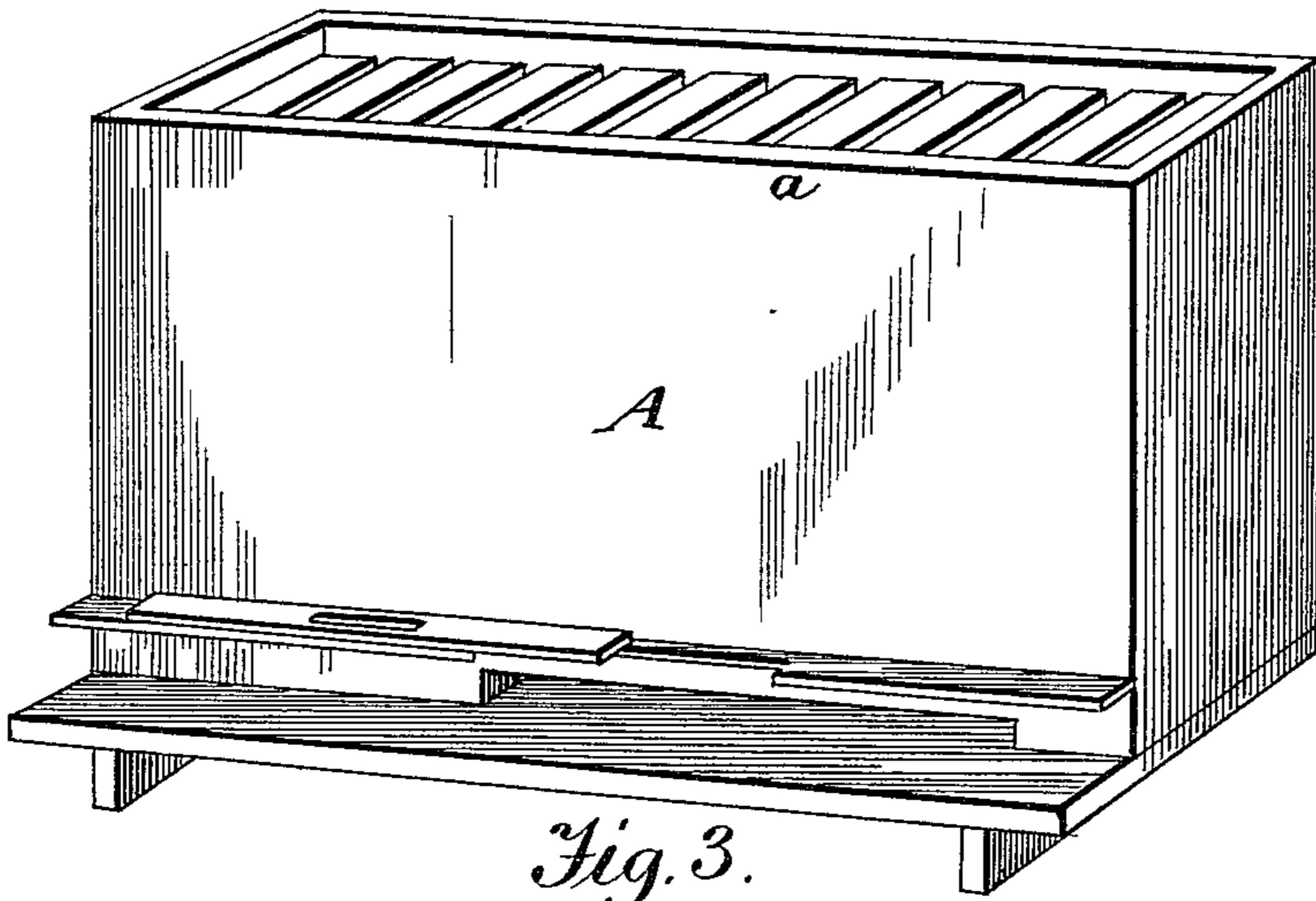
No. 463,674.

Patented Nov. 24, 1891.

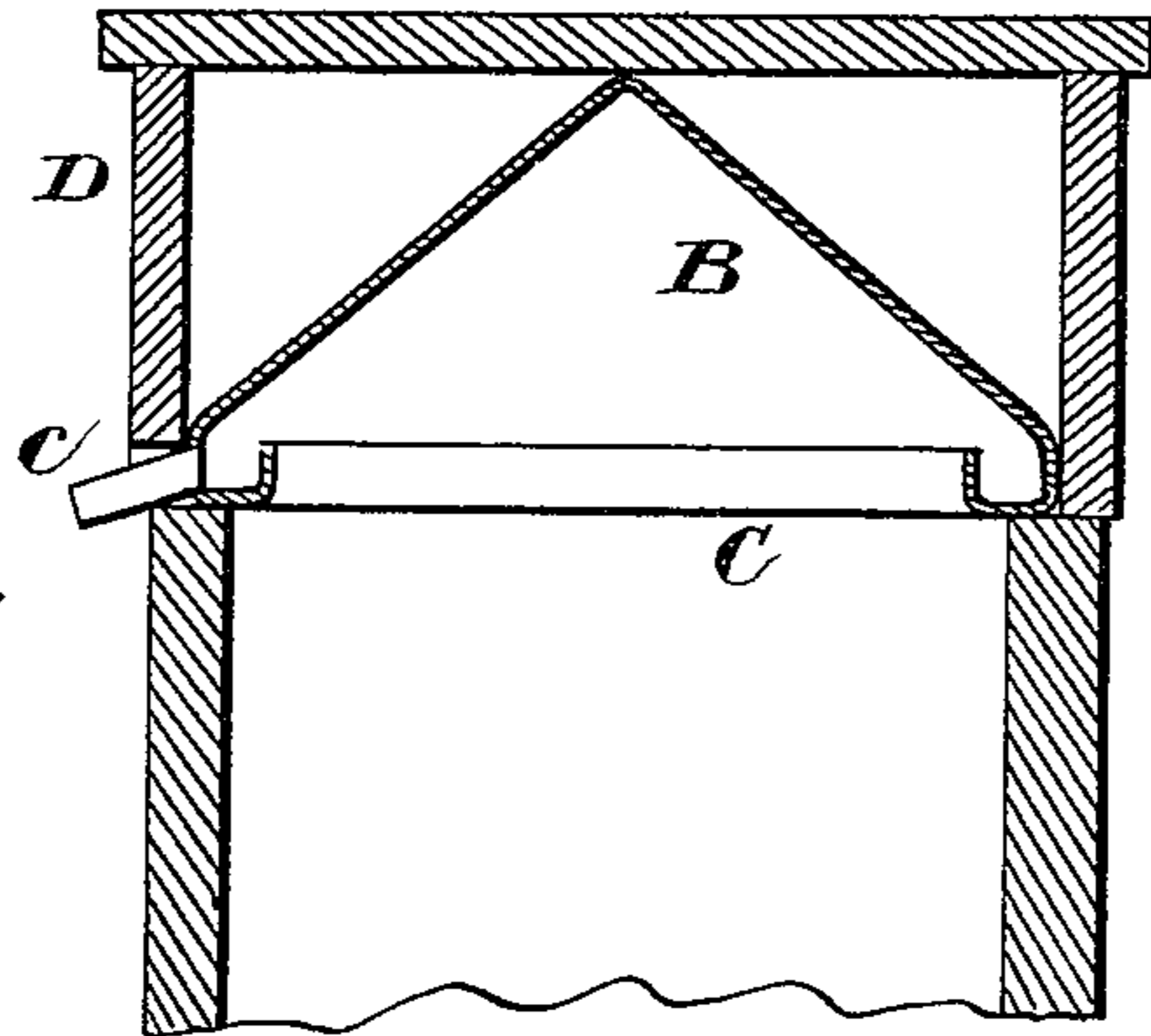
*Fig. 1.*



*Fig. 2.*



*Fig. 3.*



*Witnesses.*  
*A. Ruppert.*  
*H. A. Daniels*

*Inventor.*  
*Phelan H. Ackley*  
*Per*  
*Thomas P. Simpson*  
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# UNITED STATES PATENT OFFICE.

PHILANDER H. ACKLEY, OF ROLLING PRAIRIE, INDIANA.

## BEE-HIVE.

SPECIFICATION forming part of Letters Patent No. 463,674, dated November 24, 1891.

Application filed June 25, 1891. Serial No. 397 532. (No model)

*To all whom it may concern:*

Be it known that I, PHILANDER H. ACKLEY, a citizen of the United States, residing at Rolling Prairie, in the county of La Porte and State of Indiana, have invented certain new and useful Improvements in Bee-Hives; and I do hereby 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 appertains to make and use the same.

The special object of the invention is to relieve bee hives from the dampness which prevails therein, to the detriment of the bees in the matter of health and comfort.

The invention consists in making a metallic condenser of such shape on the inside that the water of condensation from rising vapors will be conveyed to the outside by a pipe, which will also serve to ventilate the inside of the hive.

Figure 1 of the drawings is a perspective view of a bee hive provided with my combined condenser and ventilator; Fig. 2, a similar view showing the hive with the condensing and ventilating device removed; and Fig. 3, a vertical section of the hive, its cover, and metallic condenser.

In the drawings, A represents the hive, which may be of any preferred size or shape and with the inside appliances constructed and arranged to suit the wishes of the bee-raiser.

B is my improved condenser, which is made of metal and preferably with four sides, all inclining downwardly from the sharp ridge, so as to slightly project beyond the upper edge *a* of the sides of the hive.

C is an internal gutter, which is continuous around the inside of the bottom edge of the condenser B, so that the condensed vapor which accumulates on the inner surface of the said condenser will soon find its way down the inclines thereof into said gutter. From thence it will pass out through the tube *c*, which communicates with the inside of the gutter, and will be discharged upon the ground.

D is an ordinary wooden cover, whose lower edge rests on the top edge of the hive-body, where also rests the base or lower part of the metallic condenser, the latter being inclosed by the sides and ends of said cover.

It will thus be seen that my metallic condenser will condense the rising vapors impinging on it and guide them out of the hive and allow a continual supply of fresh air through tube *c*, thus insuring health to the bees, especially during the winter and cold weather.

What I claim as new is

The metallic condenser B, having its sides converged to a sharp ridge or angle at the top and provided on the bottom with an interior gutter C, in combination with a hive-body, its cover, and a tube *c*, connecting said gutter with the outside air, for the purpose set forth.

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

PHILANDER H. ACKLEY.

Witnesses:

CHARLES F. MCCLUNG,  
JOHN H. LORD.