

(No Model.)

M. M. APPLEMAN.
PUMP.

No. 365,500.

Patented June 28, 1887.

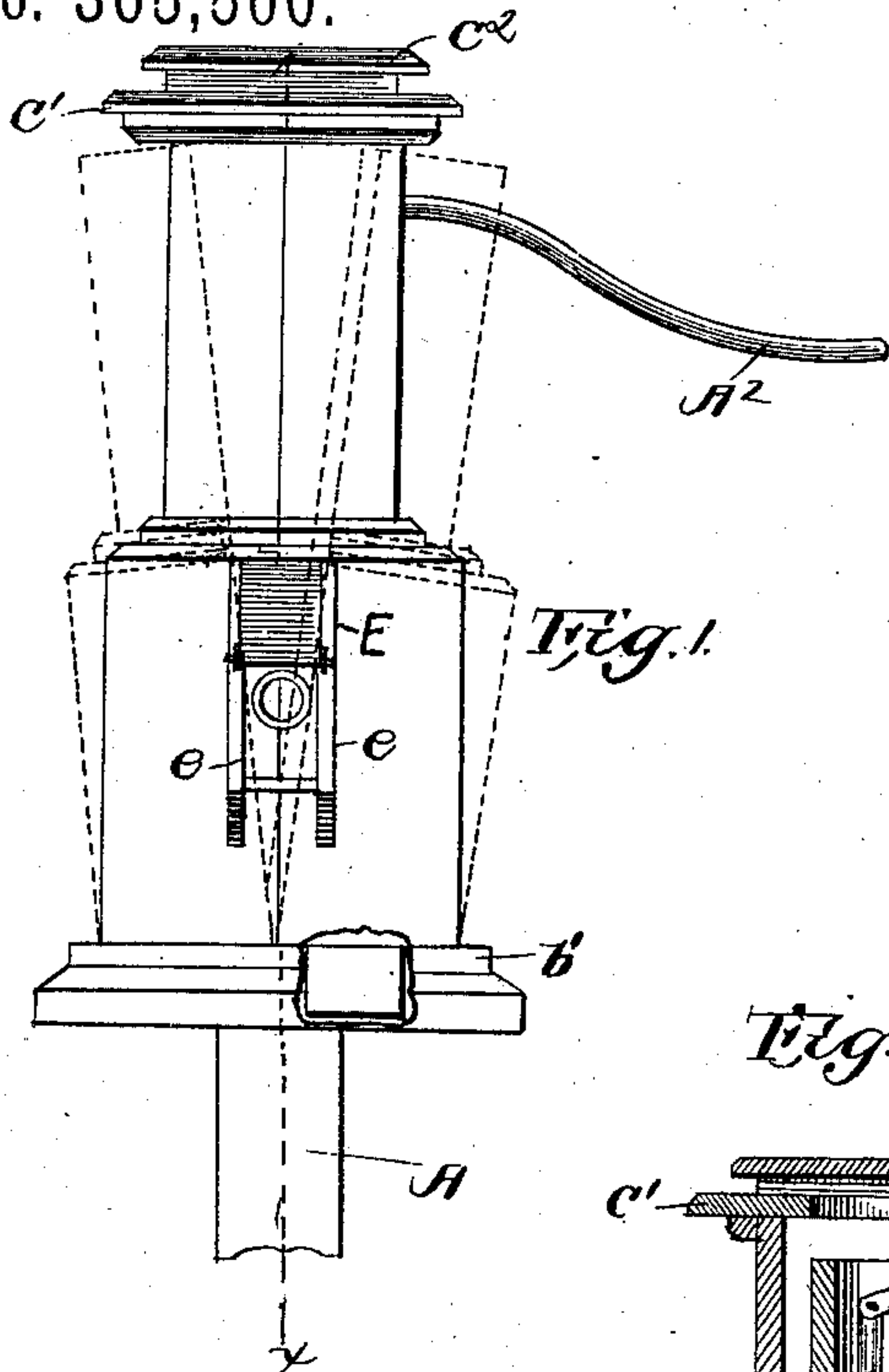


Fig. 1.

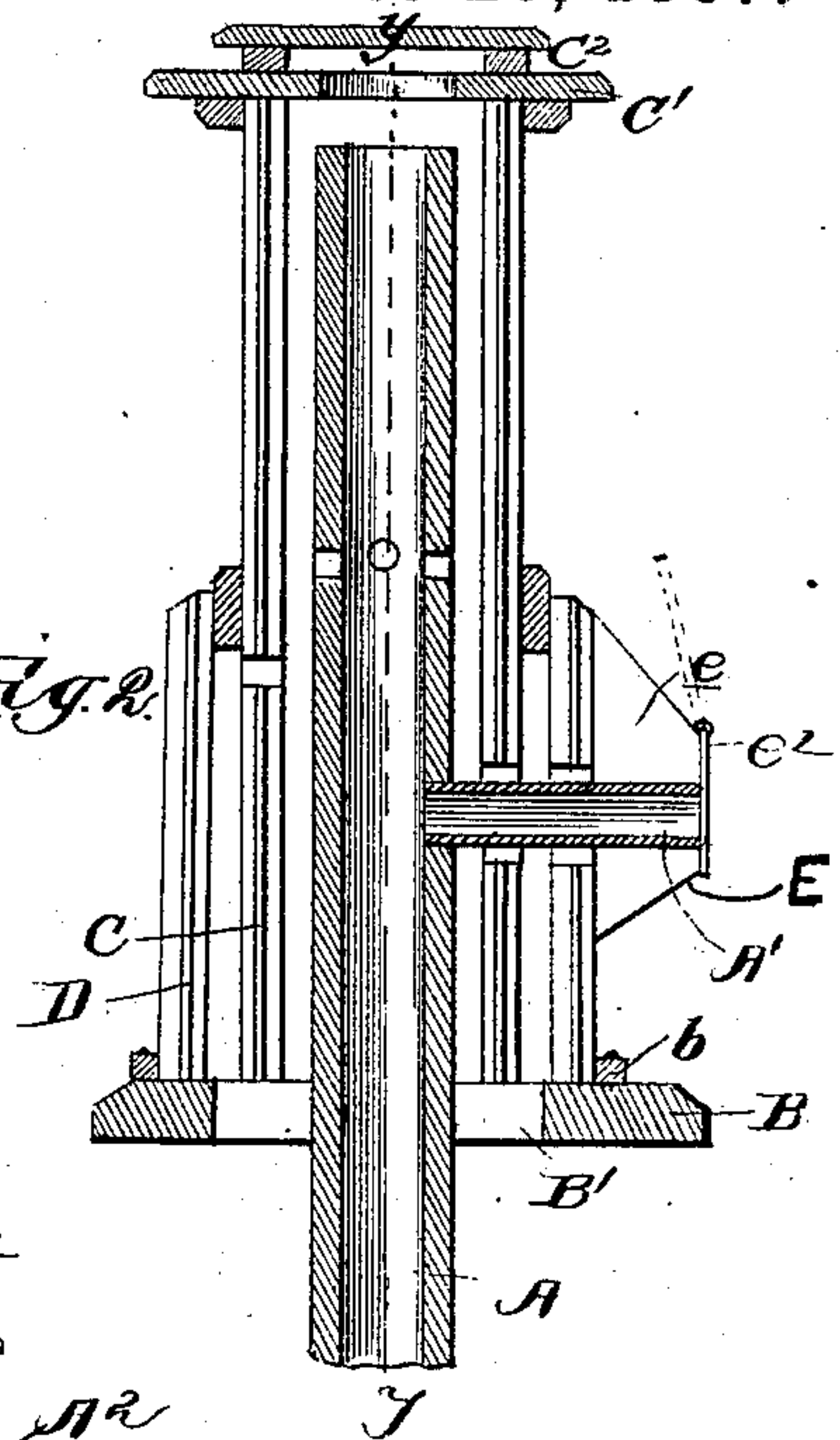


Fig. 2.

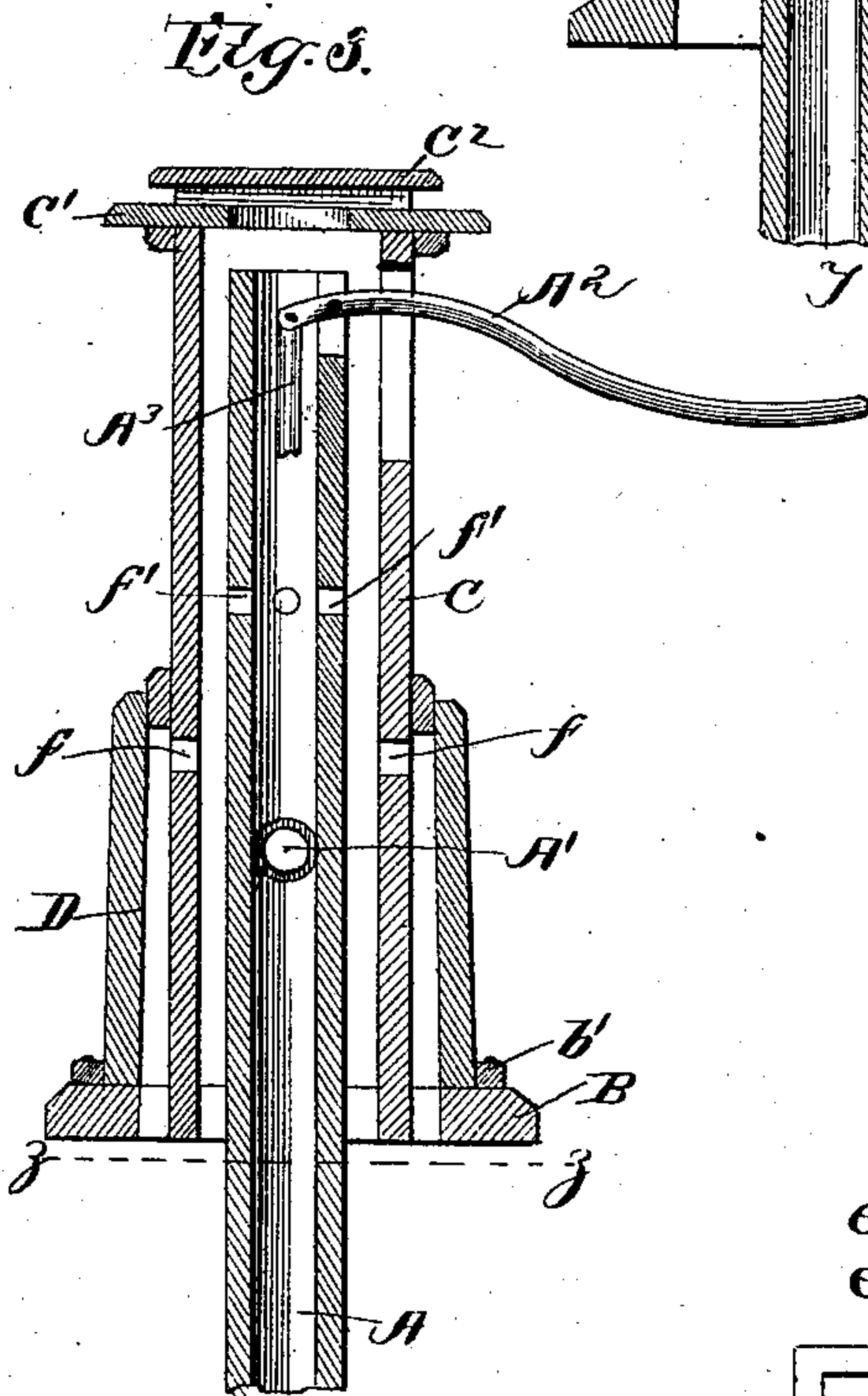


Fig. 3.

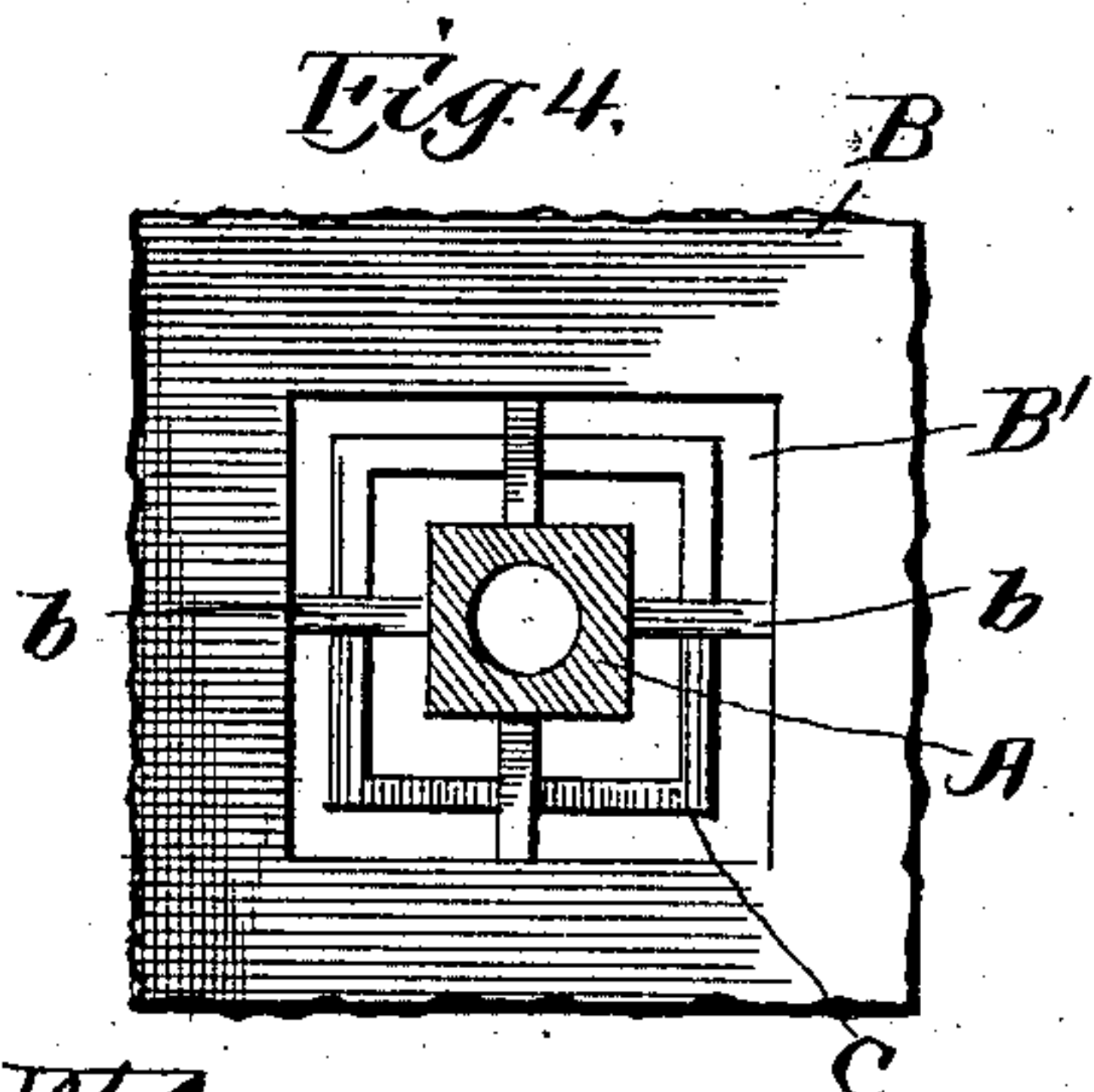


Fig. 4.

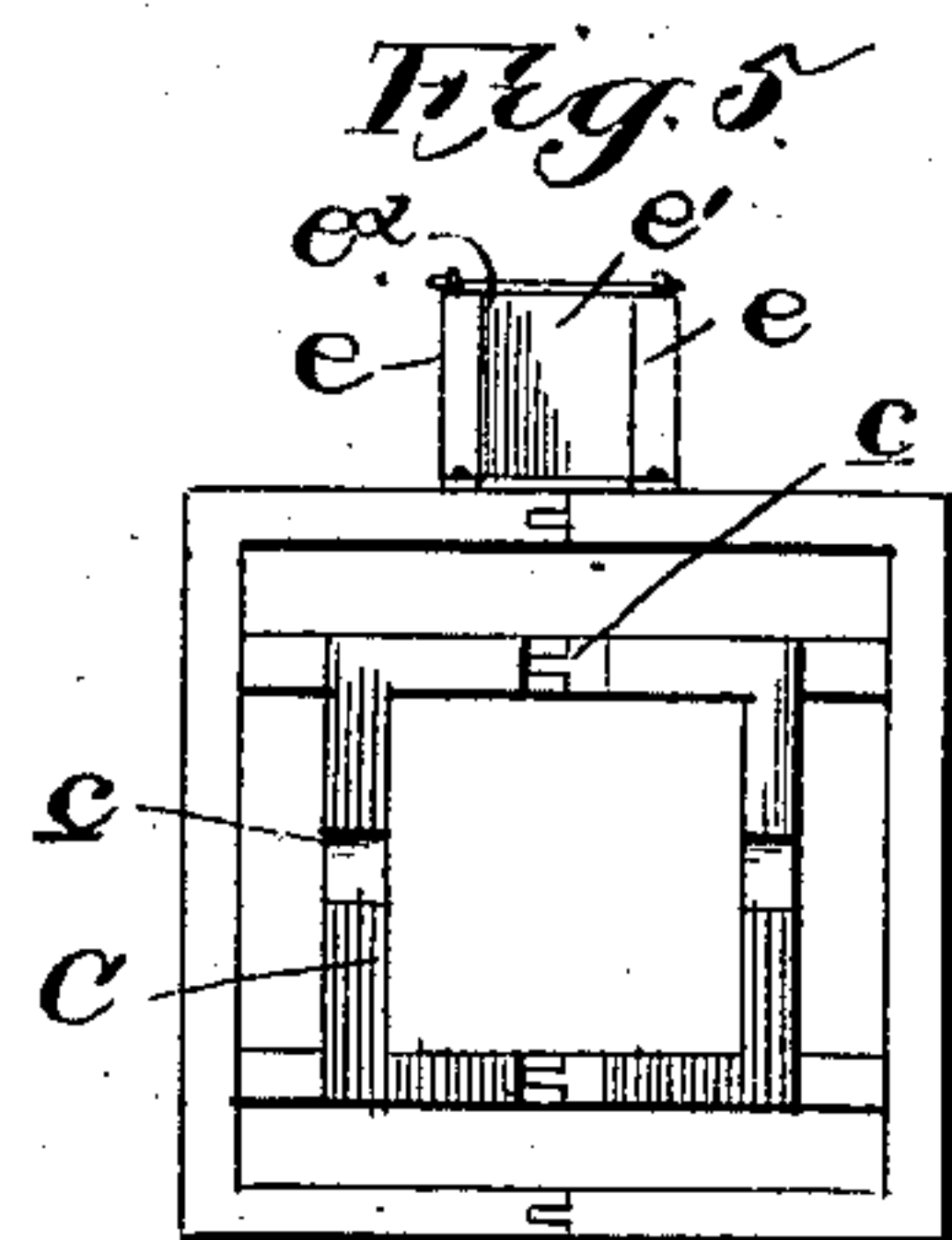


Fig. 5.

Witnesses
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UNITED STATES PATENT OFFICE.

MATHIAS M. APPLEMAN, OF ROHRSBURG, PENNSYLVANIA.

PUMP.

SPECIFICATION forming part of Letters Patent No. 365,500, dated June 28, 1887.

Application filed November 27, 1886. Serial No. 220,018. (No model.)

To all whom it may concern:

Be it known that I, MATHIAS M. APPLEMAN, a citizen of the United States, residing at Rohrsburg, in the county of Columbia and State of Pennsylvania, have invented certain new and useful Improvements in Pumps; 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 appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to pumps; and it consists in the novel features, more fully hereinafter set forth and claimed, and shown in the annexed drawings, in which—

Figure 1 is a front view. Fig. 2 is a vertical central sectional view on the line X X, of Fig. 1; Fig. 3, a section on the line Y Y of Fig. 2. Fig. 4 is a section on the line Z Z, Fig. 3; and Fig. 5 is a bottom plan view, having the pump-stock removed.

The object of the invention is to prevent the freezing of the water in the pump-stock by utilizing the warm air from the well, which by the peculiar construction is made to surround the pump stock and ward off the cold air.

Another object is to allow the rising and falling of the floor, owing to variation in temperature, without disturbing the pump-stock, and to make the case in sections which may be readily separated and put together in case it should become necessary to remove it for any reason.

The pump-stock A is of usual construction and length, and is designed to rest upon the bottom of the well. Near the upper end it is provided with the usual discharge-spout, A', and handle A² for operating the piston or plunger-rod A³. The floor or well-covering B, having an opening, B', for the passage of the pump-stock considerably enlarged for the escape of the warm air of the well, has blocks or projections extending inward to rest against the sides of the pump-stock and hold the same steady. The case C, surrounding the upper portion of the pump-stock, is sufficiently large to leave a space between it and the pump-

stock. The lower end is provided with notches *c*, to fit over the blocks *b*, which prevent lateral displacement thereof and form a support. The upper end is provided with a cover, C', centrally apertured and having a depending flange, which surrounds it. A supplemental cover, C², supported at a distance above the cover C', prevents dirt, &c., from dropping through the opening therein from above. A second case, D, surrounds the lower portion of the case C. The sides incline, forming a wider space near the base between it and the case, than at the top. It surrounds the opening B' and is held in place by a projecting strip, b'. The spout A' projects through openings in the cases C D, which openings are elongated in a vertical direction to permit an up and down movement of the cases with the floor without injury to the spout or liability of breaking the same off. The end of the spout projecting beyond the outer casing is protected and inclosed by a small side casing or compartment, E, formed by the side of the pieces *e*, top and bottom *e'*, and a hinged cover, *e*², the latter being for covering and uncovering the mouth of the spout. The casing or compartment which incloses the spout is so formed that its parts separate when the parts of the main casing are separated. A series of openings, *f*, formed through the case C below the junction or top of the outer case, permits the warm air escaping from the well into the case D to pass from the latter into the case C, which with the warm air therein escapes through the opening in the cover. A second series of openings, *f'*, formed in the pump-stock at a distance above the spout, permits a certain amount of warm air to pass from the case into the pump-stock, which will prevent the settling of the cold air upon the top of the water in the pump-stock and the freezing of the same. The cover is made detachable and the casings are made in two halves or sections, which are fitted together by tongue-and-groove joints and held in place by the depending flange or rim of the cover and the projecting strip *b'*.

From the foregoing description, reference being had to the drawings, the operation of the device is manifest; hence a further description is deemed unnecessary.

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

1. The combination, with the well cover or bottom having an opening, and the pump-stock of less area in cross-section than the opening, of blocks or projections extending inward from the sides of the opening and bearing against the sides of the stock, and a case having notches in its lower edge corresponding with the projections over which they fit, as and for the purpose set forth.

2. The combination, with the well cover or bottom having an opening therein, a strip surrounding said opening and located at a distance from its edge, and a pump-stock passed through the opening, of a double casing surrounding the upper portion of the stock, made in halves jointed together, one-half having an opening for the passage of the pump-handle,

and each half having a portion cut from its meeting edge, forming an opening when the parts are placed together for the passage of the pump-spout, and the cover having a depending rim to surround the upper end of the halves, which halves are held together by the strip surrounding the opening in the bottom and the rim of the cover, substantially as set forth.

3. A separable casing for inclosing the pump-stock, and a separable spout-casing attached to the separable parts of the stock-casing, and adapted to inclose the spout, substantially as and for purposes set forth.

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

MATHIAS M. APPLEMAN.

Witnesses:

G. M. QUICK,

A. N. YOST.