(No Model.)

# I. W. KNOWLES.

## Covered Jug.

No. 232,730. Patented Sept. 28, 1880.

Fig. 3.

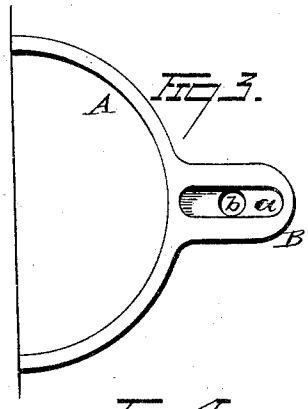



Fig. 1.

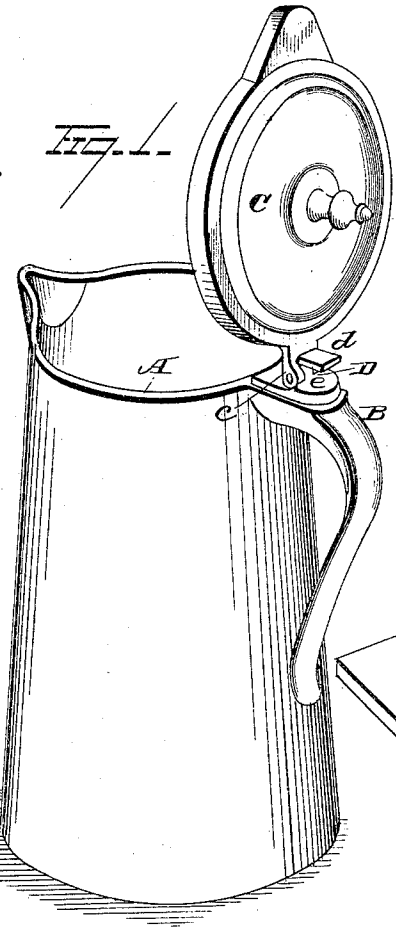



Fig. 4.

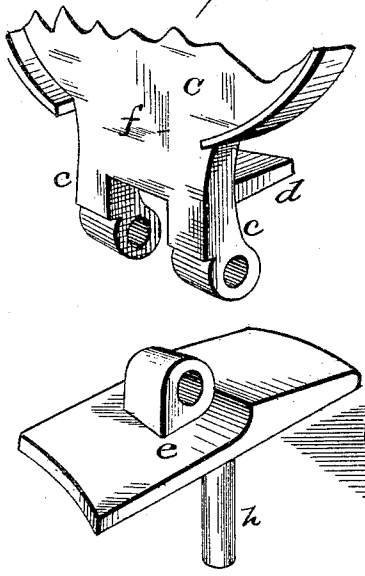



Fig. 5.

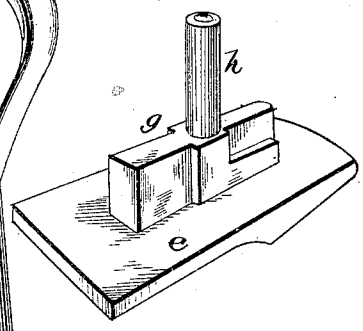
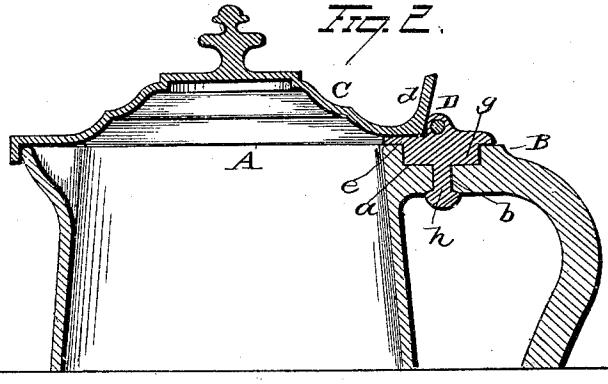



Fig. 2.




WITNESSES

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# UNITED STATES PATENT OFFICE.

ISAAC W. KNOWLES, OF EAST LIVERPOOL, OHIO, ASSIGNOR TO KNOWLES, TAYLOR & KNOWLES, OF SAME PLACE.

## COVERED JUG.

SPECIFICATION forming part of Letters Patent No. 232,730, dated September 28, 1880.

Application filed August 19, 1880. (No model.)

*To all whom it may concern:*

Be it known that I, ISAAC W. KNOWLES, of East Liverpool, in the county of Columbiana and State of Ohio, have invented certain new and useful Improvements in Covered Jugs; 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My invention relates more especially to means for securing lids to covered jugs.

The object of the invention is to cause the lid to be attached in a strong and permanent manner to the jug-body without liability to work loose.

Different means have heretofore been employed for securing the lower leaf of the lid-hinge to the top of the jug-handle; but in all these instances certain disadvantages are experienced. My invention seeks to remedy such objectionable features by the construction set forth in the following description and claims.

In the drawings, Figure 1 is a perspective view of a jug provided with the invention. Fig. 2 is a detail view in longitudinal vertical section through the lid-hinge and the top of the jug-handle. Fig. 3 is a detail view of a portion of the upper edge of the jug-body and the top of the jug-handle. Fig. 4 is a detail view of a portion of the under side of the lid and the lower leaf of the hinge extending from the rear edge of the lid. Fig. 5 is a detail perspective view of the lower leaf of the hinge.

The upper edge of the jug-body A is in the same plane with the top of the jug-handle B, and said top is provided with a longitudinal oblong slot, *a*, from which passes down through the handle-top a mortise, *b*.

The lid C has formed on its rear edge the leaf *e* of the hinge D. This leaf extends rearward from the lid, and has a thumb-piece, *d*, located between the circular line of the lid-rim and the hinge-pintle. The lower leaf, *e*, of the hinge is formed to extend both in front and rear of the pintle. The front portion extends forward and is supported upon the upper edge of the jug and forms a bearing for the leaf *e*, to which the cover is secured. The depending rim of the cover is cut away at *f* to receive the leaf *e* and allow the cover to shut over the top of the jug. This form of construction provides a soft-metal bearing or abutment for the cover as it is closed, and thus preserves the upper edge of the jug from injury. Also, the jug is not recessed at its upper edge, and hence is not liable to become cracked at the point of greatest strain. This metallic bearing of the two hinge-leaves with each other tends to render the closing of the lid less noisy than otherwise would be the case, inasmuch as, the body of the jug being of earthen or glass ware, the closing of the lid directly thereon would cause a disagreeable noise.

The lower leaf of the hinge is provided with a central longitudinal tenon, *g*, formed on its under side and adapted to fit within the oblong slot in the handle-top. Depending from this lug is a pin or stud, *h*, which passes through the mortise in the handle-top and has its projecting extremity headed against withdrawal therefrom.

To secure the lower leaf of the hinge in position cement of any suitable character is placed in the slot and mortise. The lug and tenon of the leaf are then forced down into said slot and mortise. The lid is adjusted in position, and the cement hardens. The projecting extremity of the tenon is soldered or in other suitable manner is headed, so as to firmly secure the tenon in position.

The lug prevents the hinge from lateral movement, which might occur if a cylindrical tenon extended directly down from the lower leaf, while by the joint action of both the lug and tenon the hinge is durably maintained in position.

It will also be observed that the bearing-point of the lower leaf is brought near the hinge-pintle, thus causing as little leverage strain as possible to fall upon the said lug and tenon.

This construction also permits the lid to be thrown back a good distance from the mouth of the jug, whereby the interior of the latter may be readily cleaned.

The jug, with its various parts, may be made

of any suitable material; but I prefer to make the body of the jug either of earthenware or glassware.

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

1. In a covered jug, the combination, with a handle constructed with a flat seat on its top, which is flush with the upper edge of the jug, said seat having an elongated recess formed therein and a hole extending through the top of the handle, of a lid-hinge supported upon said flat seat, the forward portion thereof resting upon the edge of the jug, and provided with an elongated tenon which fits into the corresponding recess in the handle, and with a pin or stud which extends through the handle and is headed on its under side, substantially as set forth.

2. In a covered jug, the combination, with a lid having a recess in its depending rim, of a hinge supported on a flat seat on the top of the handle and extending over the edge of the jug, said forward extension of the hinge being received within the recessed portion of the lid, substantially as set forth.

3. In a covered jug, the combination, with a handle having its top in the same plane with the upper edge of the jug-body, of a lid-hinge having its lower leaf formed with a forward extension, which fits over said handle-top and jug-body edge, the upper leaf of the hinge extending forward from the pintle and having bearing upon the lower leaf, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 12th day of August, 1880.

ISAAC W. KNOWLES.

Witnesses:
JNO. N. TAYLOR,
A. H. CLARK.