(No Model.) 2 Sheets—Sheet 1.

H. WRIGHT & I. W. KNOWLES.

DEVICE FOR ATTACHING COVERS TO VESSELS.

No. 259,655. Patented June 13, 1882.

Fig. 1.

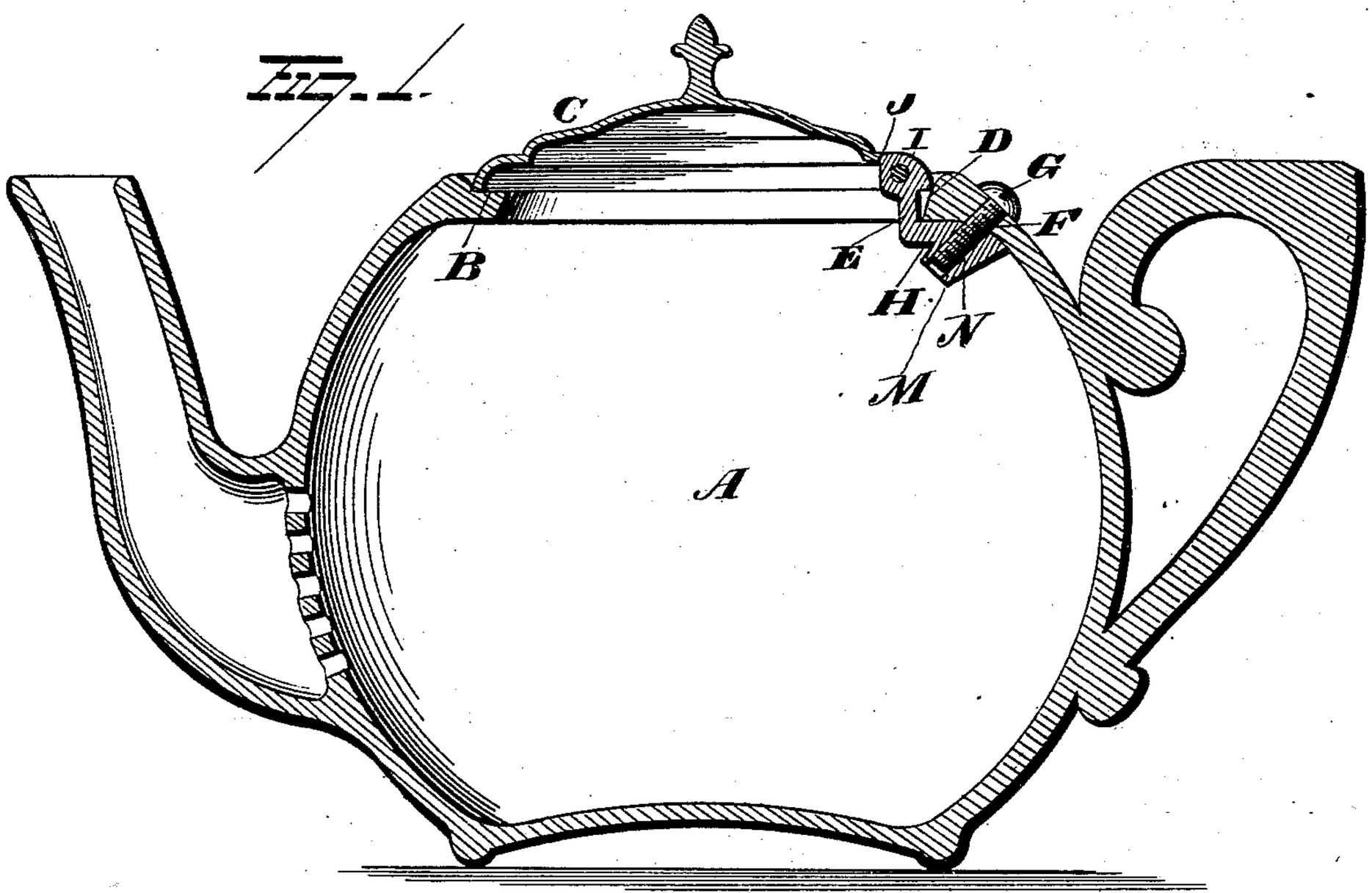
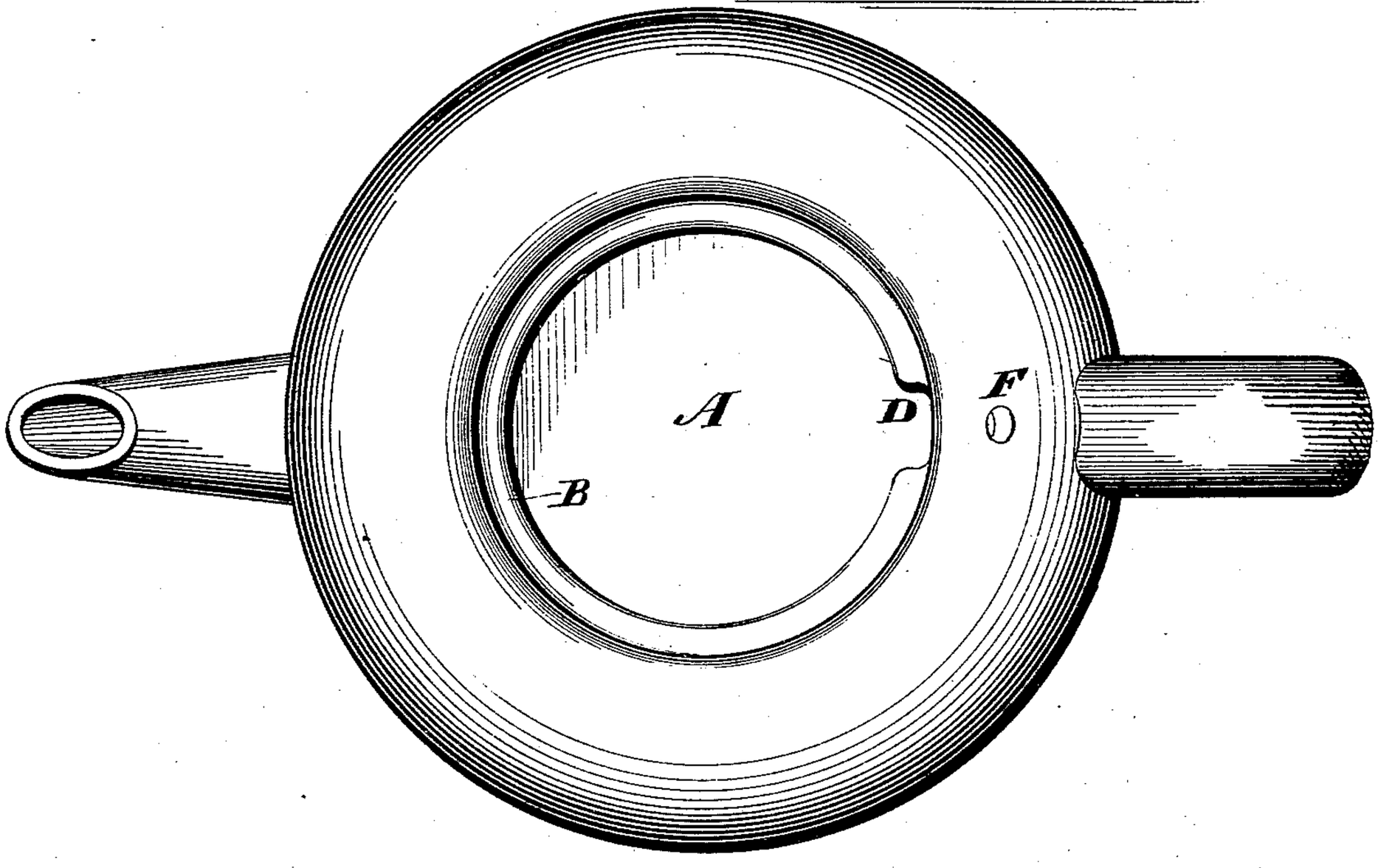


Fig. 2.



WITNESSES

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(No Model.) 2 Sheets—Sheet 2.

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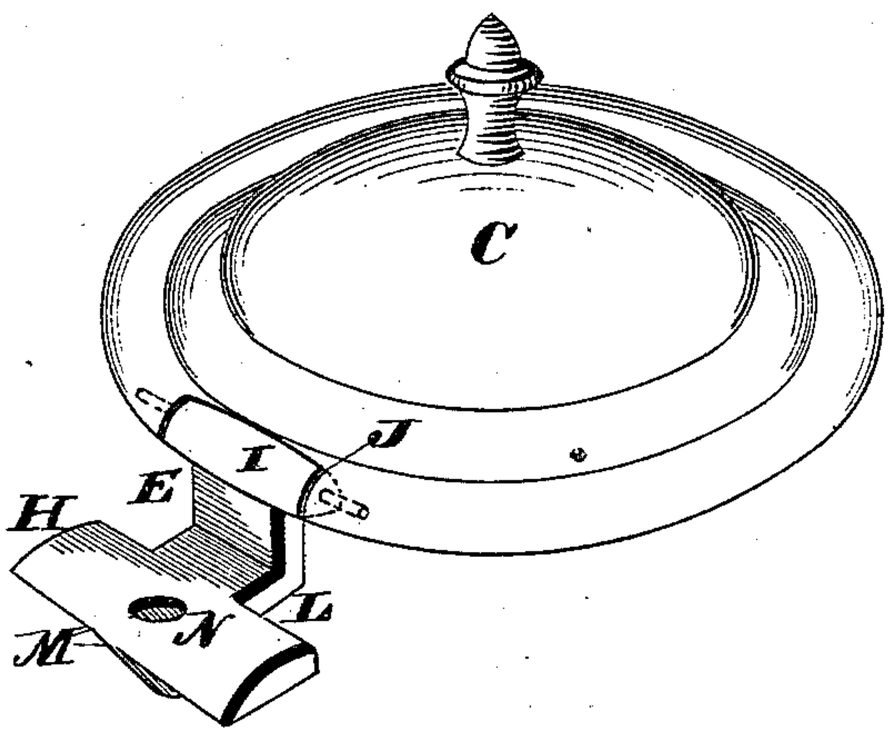
Fig. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

HOMER WRIGHT, OF PITTSBURG, PENNSYLVANIA, AND ISAAC W. KNOWLES, OF EAST LIVERPOOL, OHIO.

DEVICE FOR ATTACHING COVERS TO VESSELS.

SPECIFICATION forming part of Letters Patent No. 259,655, dated June 13, 1882.

Application filed April 18, 1882. (No model.)

To all whom it may concern:

Be it known that we, HOMER WRIGHT and ISAAC W. KNOWLES, of Pittsburg and East Liverpool, respectively, in the counties of Allegheny and Columbiana, and States of Pennsylvania and Ohio, have invented certain new and useful Improvements in Devices for Attaching Covers to Stoneware, Porcelain, and Earthenware Vessels; and we 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.

Our invention relates to household utensils, and more particularly to improved devices for securing metallic covers to stoneware, porcelain, earthen, and glass vessels, the object being to effect such a union by means of a hinge which shall combine simplicity and cheapness of construction with durability and efficiency in use; which shall present a neat appearance, and which shall be adapted to conform to those changes in the vessels occasioned by firing and by drying, and to the variations in the thickness of the vessels.

With these objects in view our invention consists in certain details of construction and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 shows the application of our invention to a tea-pot, the same being shown in vertical cross-section. Fig. 2 is a plan view of the tea-pot, the cover being removed; and Fig. 3 is a view in perspective of the cover and the hinge detached.

A is the tea-pot, the open top of which is provided with a depressed flange, B, upon which the edge of the cover C rests. The said flange is cut away, as at D, to receive the vertical arm E of the hinge, while a perforation, F, formed in the body of the tea-pot, and in line with the handle thereof and the slot D, above referred to, is designed to receive the screw G, which enters the horizontal cross-bar H of the hinge and holds the same firmly in engagement with the inner face of the tea-pot. The upper end of the vertical arm E of the hinge terminates in a shoulder, I, which is received and pivoted within a slot, J, formed in the cover C, the upper face of the said shoulder being conformed in contour to the outer face of the cover. The lower end of the said vertical arm is formed integral with a short horizontal arm, L, which merges in the cross-bar H, from the lower face of which a socket, M, depends. A perforation, N, entering the cross-bar midway of its length and width and extending into or through the said socket, is adapted to receive the screw G.

It is apparent that the upper face of the cross-bar may be appropriately shaped to fit the form of the inner face of the tea-pot, and also that, if desired, the arm L may be dispensed with, in which case the lower end of the vertical arm will terminate in the cross-bar H. Again, the tea-pot may be provided with two perforations, similar to the perforation F, to receive two screws entering suitable perforations in the cross-bar H. The construction shown may be still further modified by dispensing with the screws altogether and forming one or more pins on the upper face of the cross-bar, which shall be adapted to be inserted in and to project out of one or more perforations in the tea-pot similar to the perforations F, the projecting ends of the said pins being either swaged or fused to form suitable heads. The perforations F are preferably made in the article after it is shaped and while it is still in the damp-clay state; but during the process of drying and firing all earthen, porcelain, and similar wares shrink by reason of the moisture they lose and the high temperatures to which they are subjected in the kiln, and therefore if, when the articles are removed from the kiln, the perforations are found to be so changed in position as to prevent the hinges from being properly secured to them this displacement can be compensated for by bending the vertical arm E of the hinge, the metal of which the same is formed being sufficiently flexible to admit of such manipulation. So, too, variations in the thickness of the vessel may be compensated for by bending the hinge up and down, as may be necessary to secure a perfect adjustment.

It is apparent that in adapting our improved device to be used with articles different in style and composition some slight modifica-

tion of it may be necessary. We would therefore have it understood that we do not limit ourselves to the exact construction shown and described, but that we hold ourselves at liberty to make such slight changes and alterations as fairly fall within the spirit and scope of our invention.

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

1. The combination, with a stoneware, porcelain, earthenware, or glass vessel, of a metallic cover and a hinge pivotally secured to said cover and provided with a depending and rearwardly-extending arm resting against and secured to the inner face of the vessel, substantially as set forth.

2. The combination, with a stoneware, porcelain, earthenware, or glass vessel, of a metallic cover, and a hinge pivotally secured to said cover and provided with a depending and rearwardly-extending arm adapted to conform to and resting against the inner face of the vessel, and screws (one or more) which pass through perforations in the vessel and into the arm of the hinge.

3. The combination, with a stoneware, porcelain, earthenware, or glass vessel, of a metallic cover, a hinge pivotally secured to said cover and provided with a vertical arm and a cross-bar, and screws which pass through perforations in the vessel and secure the said cross-bar to the inner face thereof.

4. The combination, with a vessel the open top of which is provided with a flange, of a metallic cover, a hinge pivotally secured to said cover and provided with a vertical arm and a cross-bar, the vertical arm of the hinge being received in a slot formed in the said flange, and screws which pass through perforations in the vessel and secure the cross-bar of the hinge to the inner face thereof.

In testimony that we claim the foregoing we have hereunto set our hands this 5th day of April, 1882.

HOMER WRIGHT.
ISAAC W. KNOWLES.

Witnesses:
THOS. J. FORD,
M. A. WOODWARD.