

(No Model.)

C. H. PETERS.

COFFEE URN.

No. 294,666.

Patented Mar. 4, 1884.

FIG. 1.

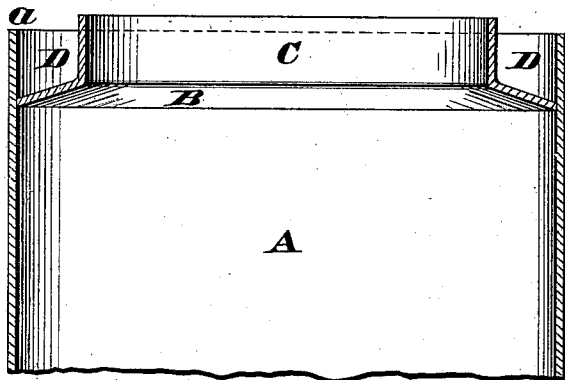
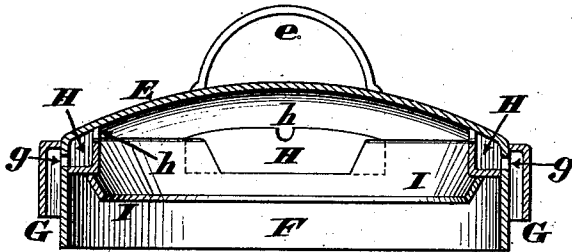


FIG. 2.

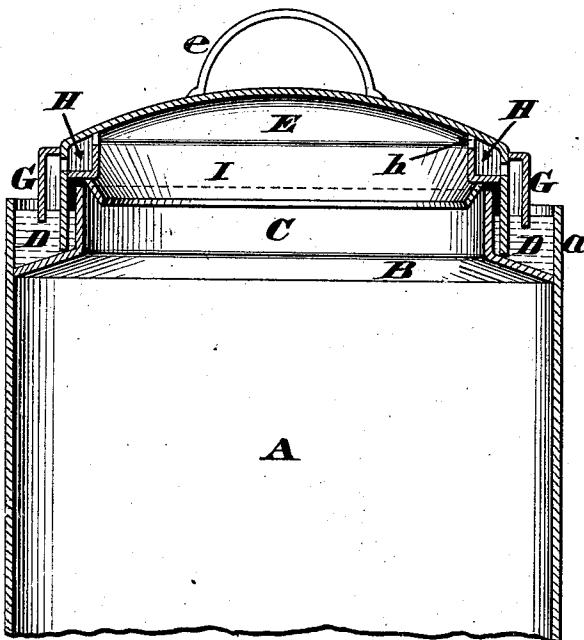


FIG. 3.

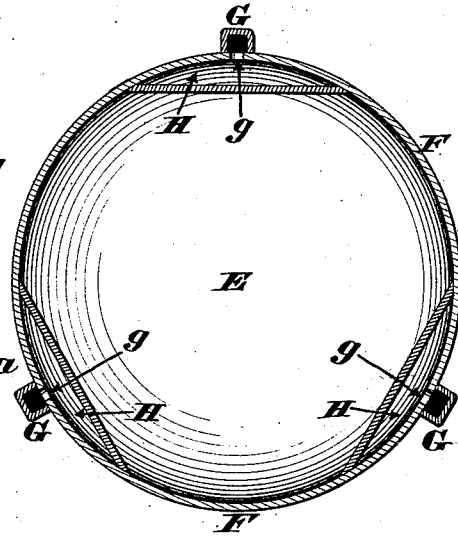
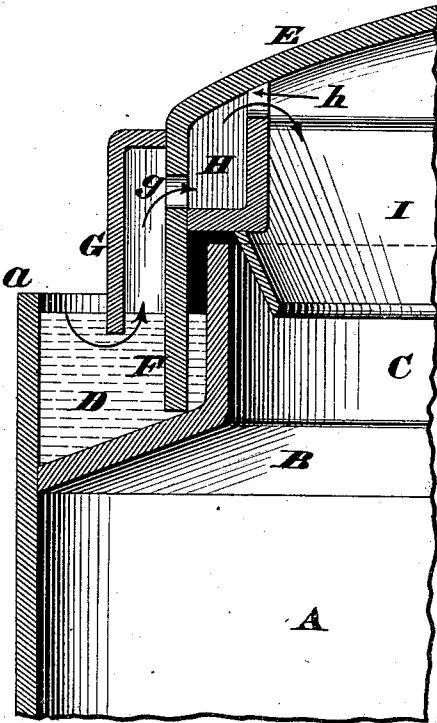


FIG. 4.



Attest.
C. H. Peters,
Thomas A. Wood

Inventor.
Charles H. Peters
by James N. Layman
Att'y.

UNITED STATES PATENT OFFICE.

CHARLES H. PETERS, OF CINCINNATI, OHIO.

COFFEE-URN.

SPECIFICATION forming part of Letters Patent No. 294,666, dated March 4, 1884.

Application filed September 21, 1883. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. PETERS, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Coffee-Urns, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to those vessels or urns which are used in hotels, restaurants, &c., for keeping hot coffee on draft; and the first part of my improvements consists in providing the lid with one or more pockets, each of which communicates with one of the air-holes previously alluded to, the object of these pockets being to arrest and temporarily retain any water that might be drawn out of the trough when vent is given to the urn, as hereinafter more fully described.

My invention further consists in providing the cover with a deflecting-plate that causes the condensed water from said cover to fall back into the urn and not run down into the sealing-trough, as hereinafter more fully described.

Another feature of the invention consists in making the inner wall of the sealing-trough somewhat higher than the outer wall thereof, in order that any overflow from said trough will run down on the outside of the urn and not mix with the coffee, as hereinafter more fully described.

In the annexed drawings, Figure 1 is an axial section of the upper portion of my improved coffee-urn, the lid or cover being detached therefrom. Fig. 2 is a similar section, but showing the cover applied to the urn. Fig. 3 is a horizontal section of the cover, taken in the plane of the air-inlets *g*, the deflecting-plate being omitted. Fig. 4 is a greatly-enlarged section of a portion of the urn and its cover.

A represents the upper part of an urn of any suitable size, shape, and material, said vessel having attached to it an inwardly-projecting annular flange, B, that terminates with a vertical neck, C, which flange and neck, in conjunction with the portion *a* of the urn, form the sealing-trough D. Adapted to be applied to the top of this urn is a lid, cap, or

cover, E, having a convenient handle, *e*, and a depending flange or rim, F, which latter fits around the neck C and rests on the bottom of trough D. Attached to the exterior of this rim F are pipes or tubes G, open at bottom only, but communicating with the interior of the cover by means of inlets *g*. These pipes, however, do not extend to the lower edge of said rim. The tubes G and holes *g* may constitute the only ventages of the urn; but I prefer to have said inlets *g* communicate with pockets H, having openings *h* at top.

I is an inwardly-sloping deflecting-plate, the upper margin of which is soldered to the cover E at its junction with flange F. When this cover is applied to the urn A, the flange F fits around the neck C, while the deflecting-plate I enters said neck, as more clearly seen in Fig. 4, and the trough D being then filled with water, the apparatus is at once ready for use. As soon as vapor commences to arise from the coffee or other ingredient in the urn, such vapor is confined, because the lower ends of tubes G are sealed by being submerged in the water-trough D, and as these tubes form the only outlets at the top of said urn, it is evident the steam must condense against the under side of the cover, run down the inclined plate I, and be deflected into the vessel A. Therefore, as the sealing-trough D effectually prevents the escape of steam from the urn, it is obvious the full aroma of the coffee is preserved within the apparatus; but as this sealing-trough closes the upper end of the urn, it is evident the coffee or other liquor cannot be drawn therefrom unless some provision is made for venting the apparatus, which admission of air is effected by the tubes G and inlets *g*. Consequently the moment the cock or faucet at the bottom of the urn is opened, air is drawn through these tubes G and inlets *g* and allowed to enter the cover; but as such a direct admission of air would be liable to draw water from the trough D and discharge it into the vessel A, it is preferred to have said inlets *g* communicate with pockets H or their equivalents. These pockets are sufficiently capacious to hold all the water that might pass up through the tubes G and inlets *g*, and as the holes *h* of said pockets are elevated some distance, there is no opportunity for the water to

enter the urn. Furthermore, as soon as the cock or faucet is closed and there is no longer any necessity for ventage, the water collected in said pockets flows out through the holes *g* and tubes *G*, and is returned to the trough *D*. Of these pockets, air-holes, and tubes, one or more may be used, as circumstances may suggest. In Fig. 1 four pockets are supposed to be employed, while a pair of them are shown in Fig. 2 and three in Fig. 3. In case the trough *D* should be filled too full, the overflow from the same will take place down the exterior of vessel *A* and not within the same, because the neck *C* is higher than the outer wall, *a*, of said trough.

I claim as my invention—

1. In combination with a coffee-urn having a sealing-trough at its upper end, a cover fitting in said trough, and provided with one or more air-inlets below the water-level of the latter, each air-inlet being furnished with a pocket or equivalent receptacle communicating with

the interior of the apparatus, for the purpose stated.

2. A coffee-urn having a sealing-trough, *D*, the outer wall of which, *a*, is lower than its inner wall or neck, *C*, for the purpose herein described.

3. The combination of urn *A*, sealing-trough *a* *B* *C* *D*, cover *E*, rim *F*, tubes *G*, air-inlets *g*, pockets *H*, and openings *h*, as and for the purpose specified.

4. The combination of urn *A*, sealing-trough *a* *B* *C* *D*, cover *E*, rim *F*, tubes *G*, air-inlets *g*, pockets *H*, openings *h*, and deflecting-plate *I*, which plate is attached to said cover and enters the neck *C*, as herein described.

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

CHARLES H. PETERS.

Witnesses:

JAMES H. LAYMAN,
SAML. S. CARPENTER.