

(No Model.)

C. H. PETERS.

COFFEE URN.

No. 294,666.

Patented Mar. 4, 1884.

FIG. 1.

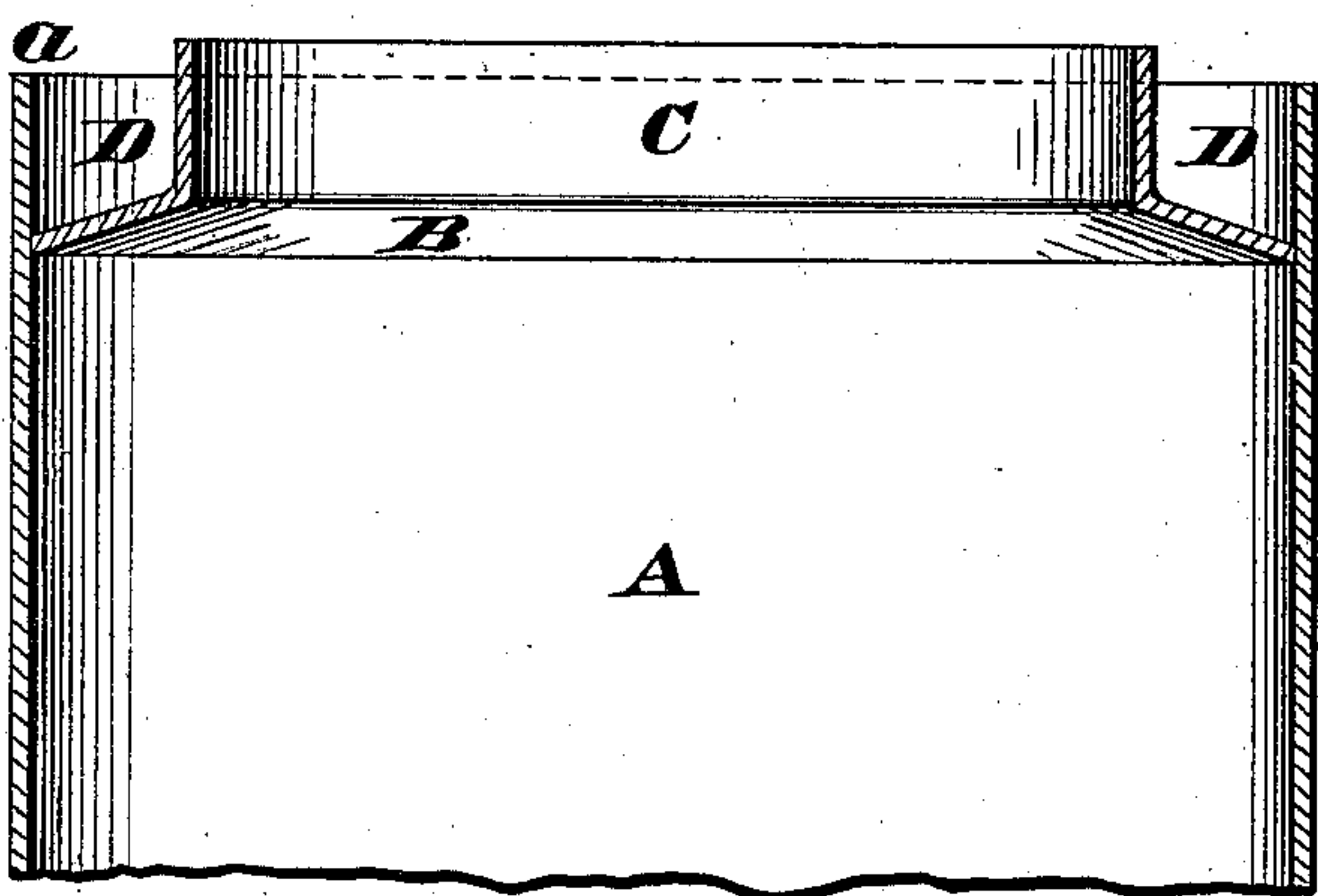
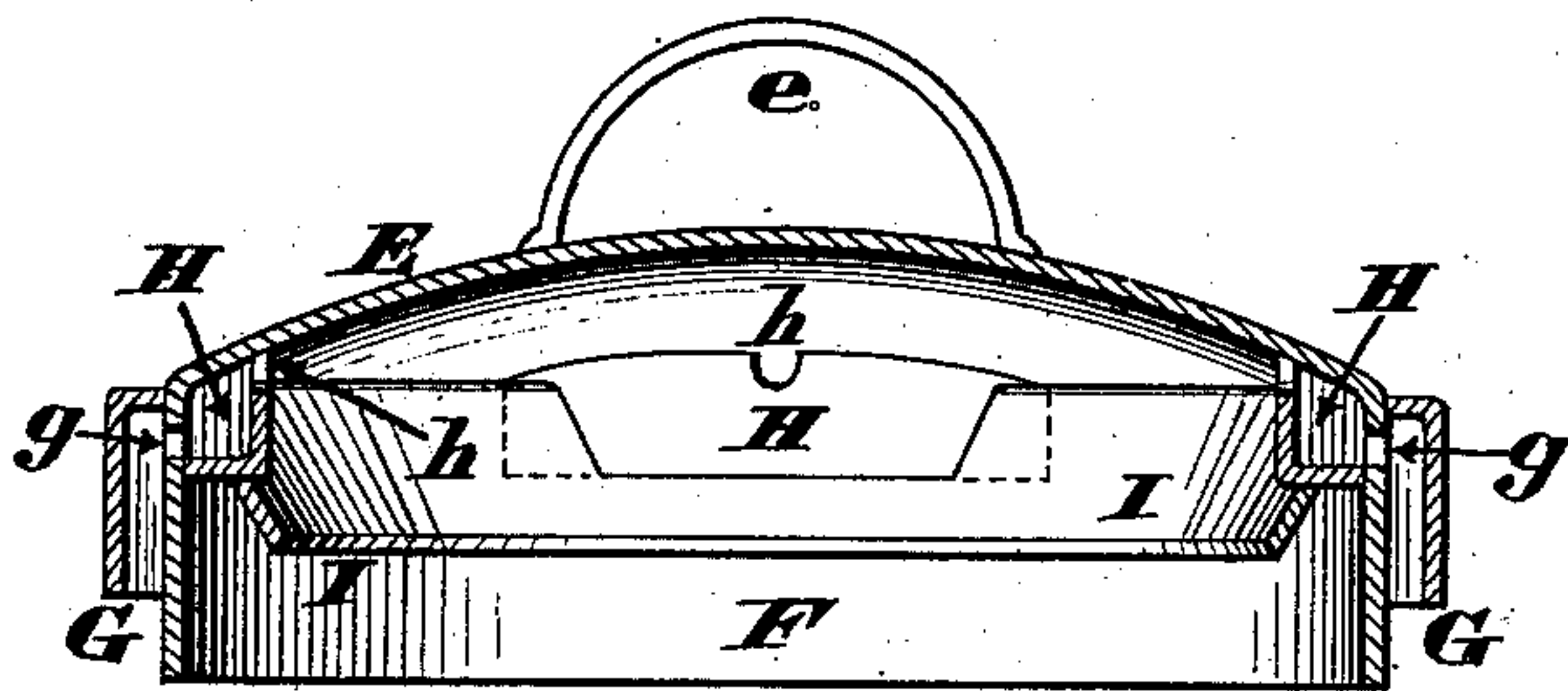
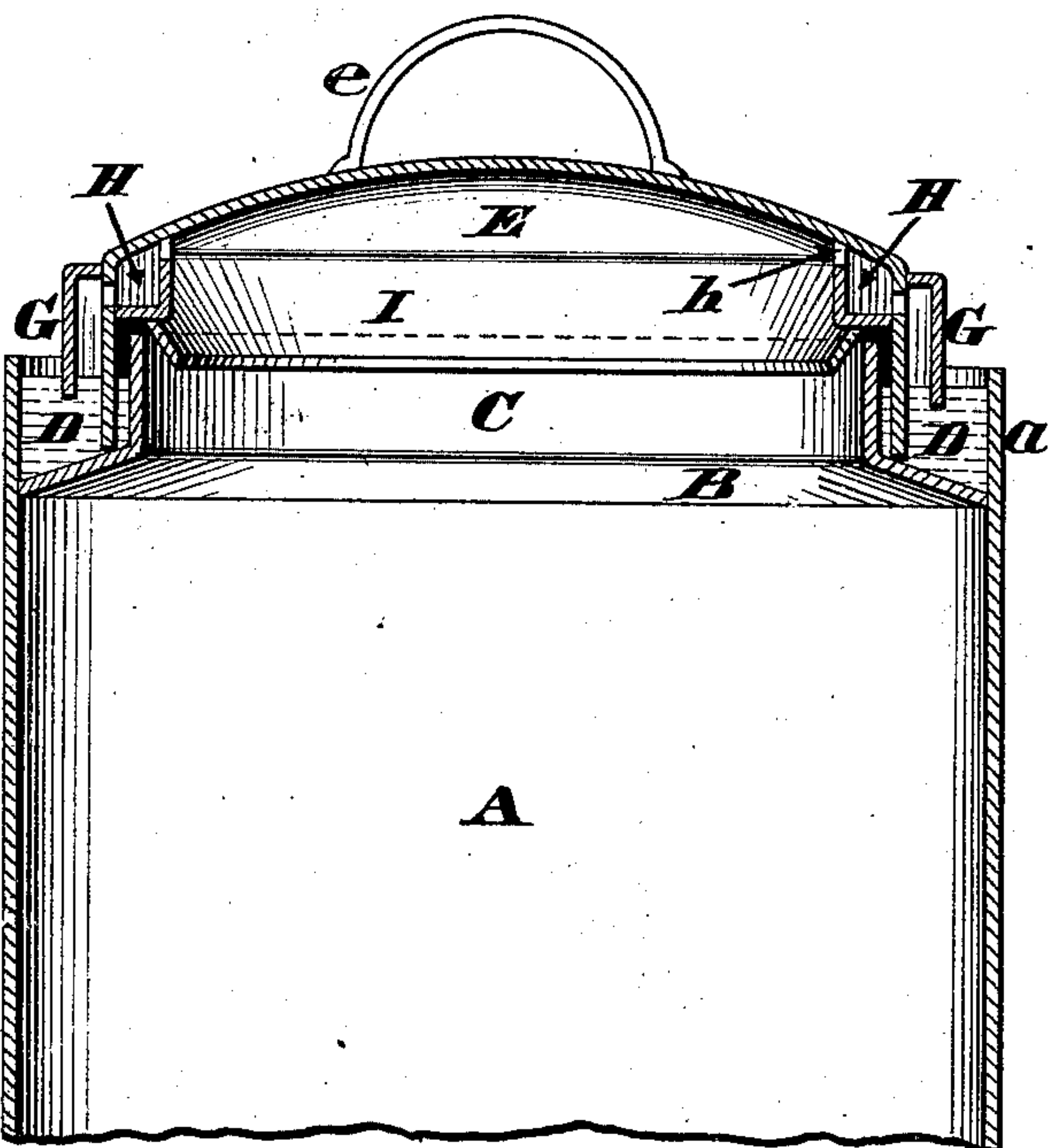


FIG. 2.



Attest.
Chas. Moorath.
Thomas D. Wood

FIG. 3.

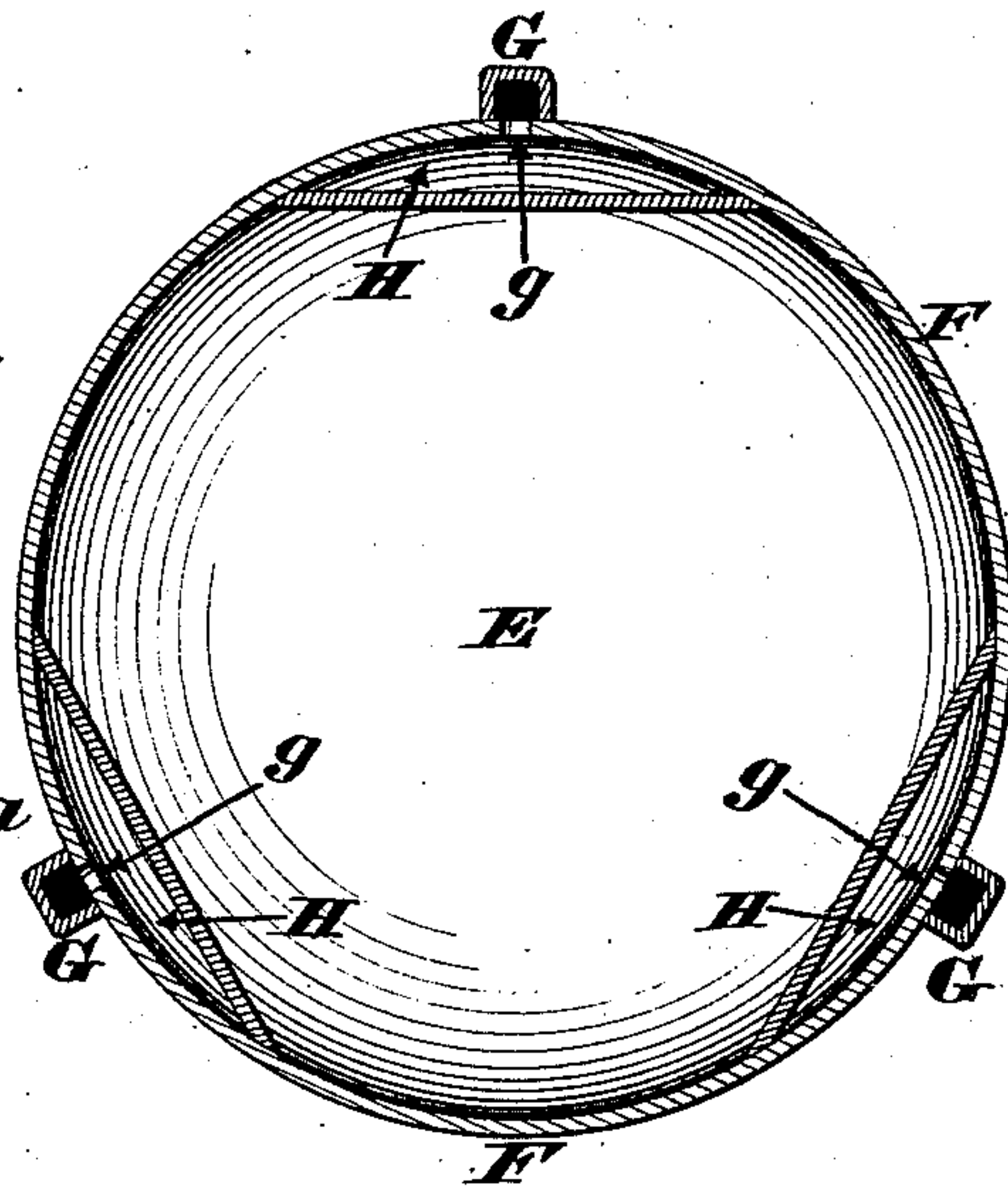
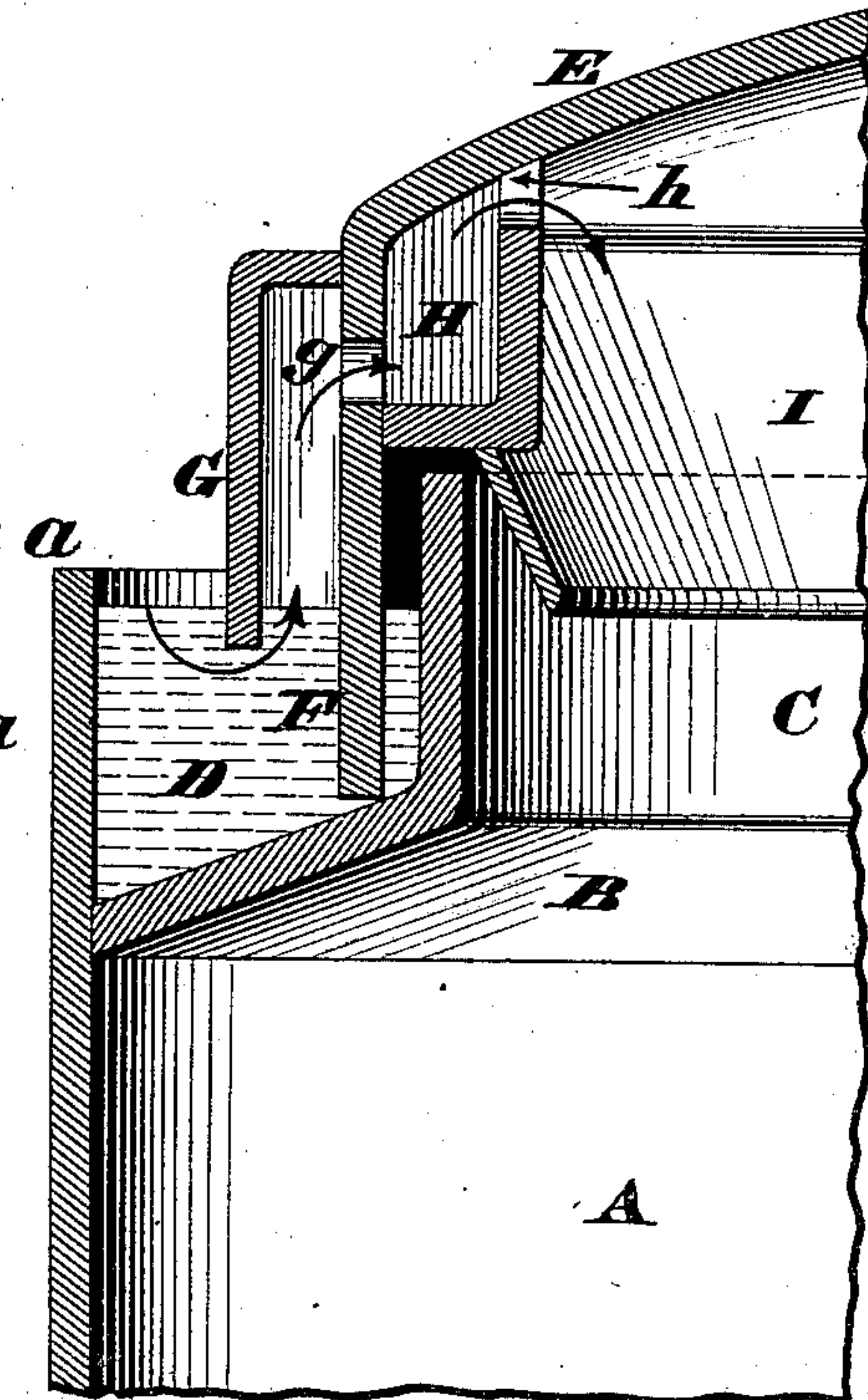


FIG. 4.



Inventor.
Charles H. Peters
by James H. 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.

10 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
15 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
20 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
25 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,
30 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,
40 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
45 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,
50 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
55 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*
60 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
65 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
70 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
75 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
80 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
85 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
90 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
95 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
100 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
5 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 em-
ployed, while a pair of them are shown in
10 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 exte-
rior of vessel *A* and not within the same, be-
cause the neck *C* is higher than the outer
15 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
20 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*, 25
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*, 30
pockets *H*, and openings *h*, as and for the pur-
pose 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 35
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.