

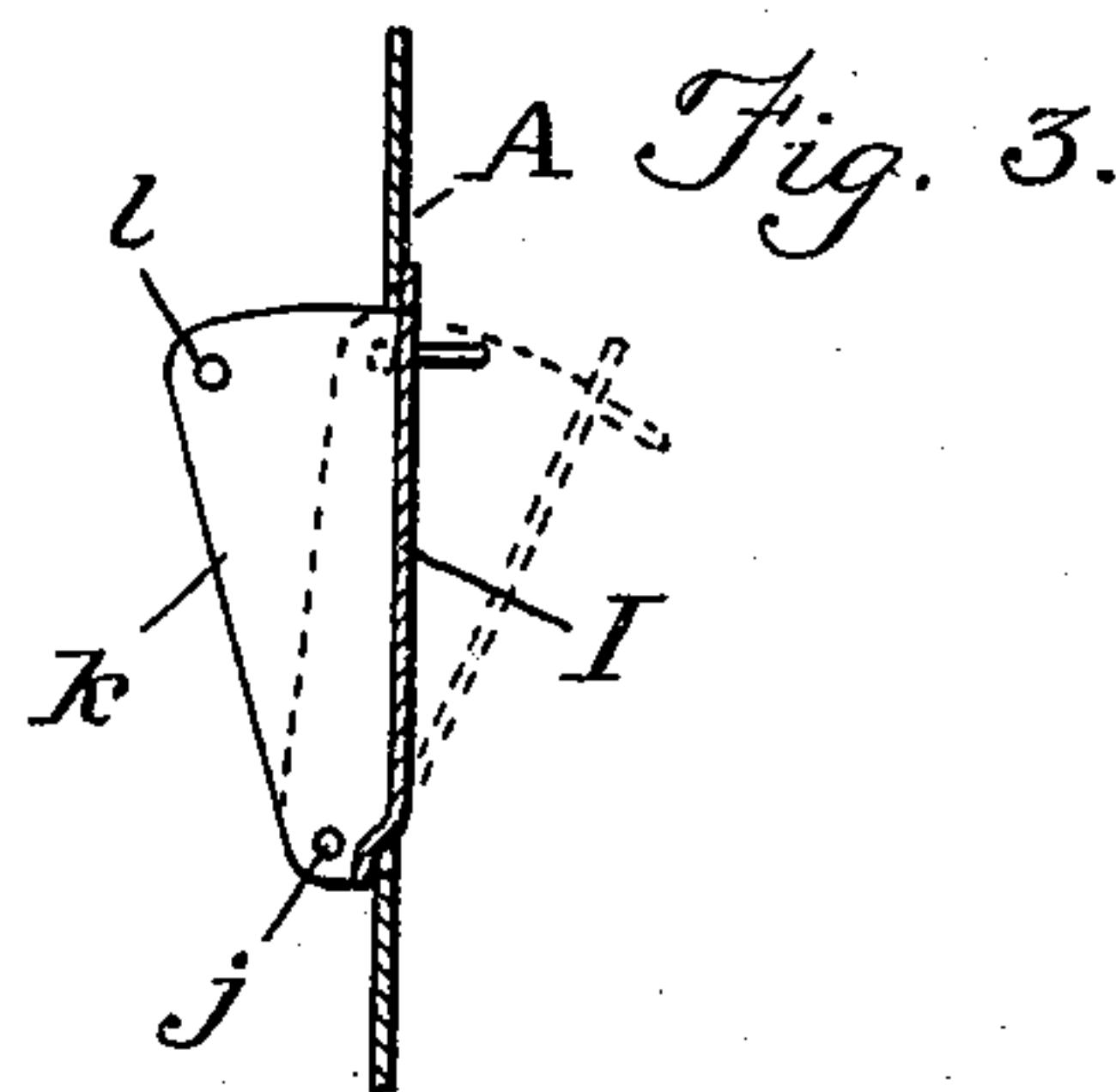
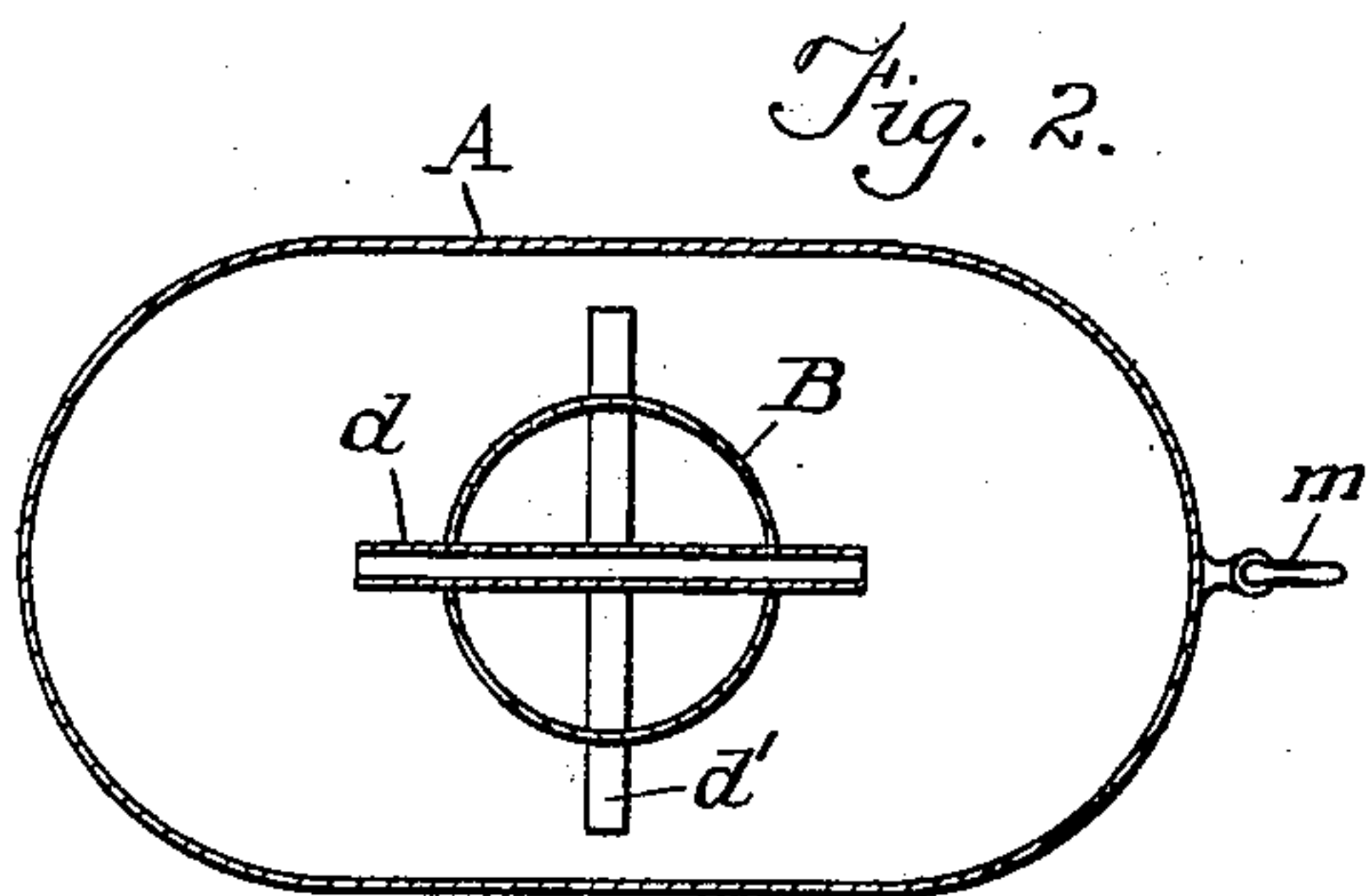
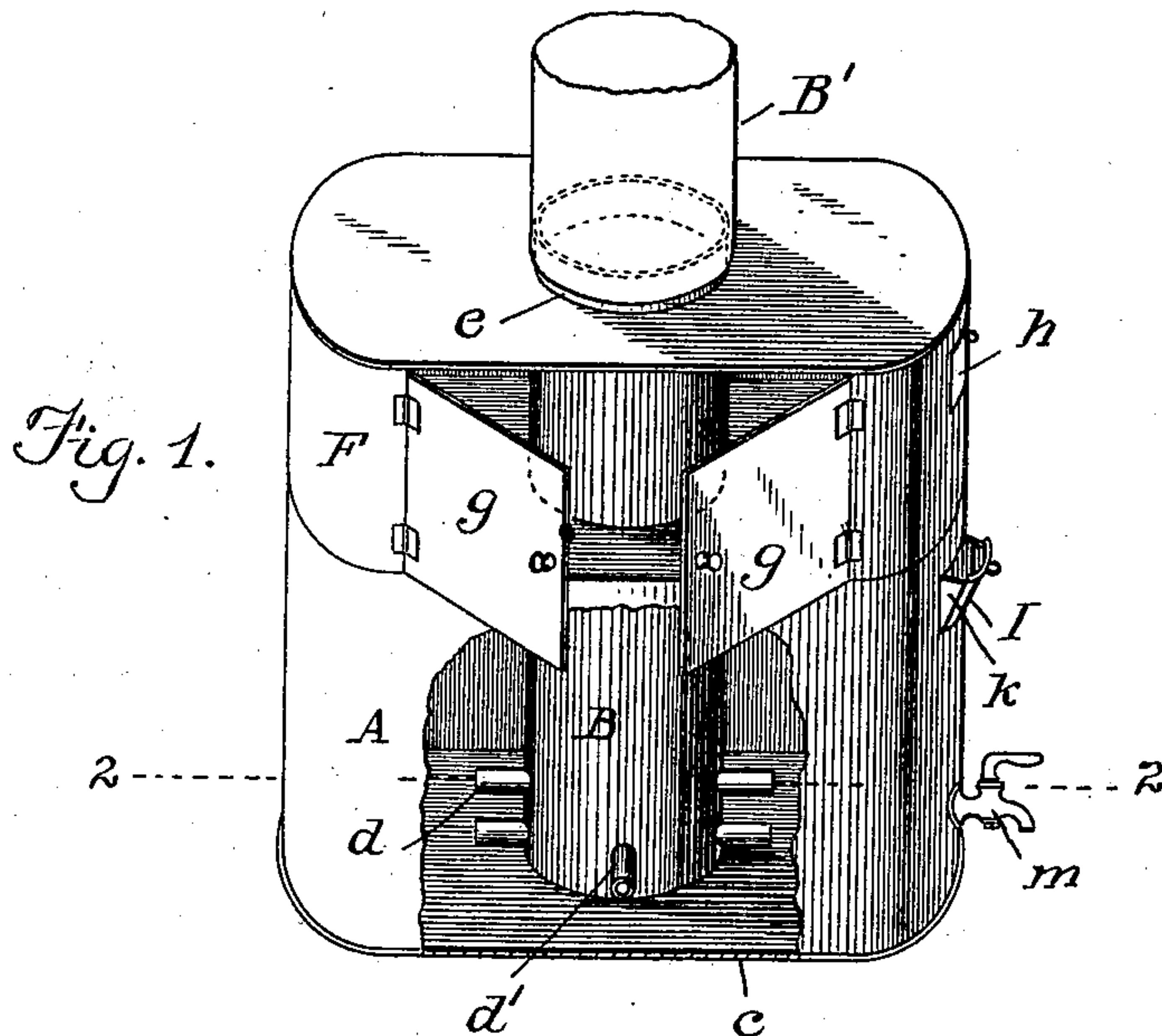
No. 627,753.

Patented June 27, 1899.

W. H. HUBBARD, OF JAS. N.  
DOMESTIC HEATER.

(Application filed Nov. 23, 1898.)

(No Model.)



Witnesses :-

Lee J. Van Horn.  
Charles B. Mann Jr.

Inventor :-

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Attorney.

# UNITED STATES PATENT OFFICE.

WILLIAM H. HUBBARD, OF JAS. N., OF CAMBRIDGE, MARYLAND.

## DOMESTIC HEATER.

SPECIFICATION forming part of Letters Patent No. 627,753, dated June 27, 1899.

Application filed November 23, 1898. Serial No. 697,224. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM H. HUBBARD, OF JAS. N., a citizen of the United States, residing at Cambridge, in the county of Dorchester and State of Maryland, have invented certain new and useful Improvements in Domestic Heaters, of which the following is a specification.

This invention relates to a portable domestic water-heater applicable to the tops of ordinary kitchen stoves or ranges, a warming-oven over the water-heater, and means for filling the water-heater without removing the warming-oven.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the complete apparatus, a portion of the front being broken away to expose the interior. Fig. 2 is a horizontal section of the water-heater on the line 2 2. Fig. 3 is a sectional detail view of the device for supplying water to the heater while the warming-oven is in position.

The lower chamber or water-heater comprises an oval or oblong shaped boiler A, having a central vertical flue B extending through it from top to bottom. This flue should be the same size in cross-section as the ordinary sheet-iron smoke-flue of a kitchen-stove. The flue is secured water-tight to the bottom *c* of the boiler, which is flat to set upon the stove-top, and the lower open end of the flue will fit over the upward flange that usually surrounds the smoke-pipe hole of a stove. Several short pipes *d d'* pass horizontally through and cross each other in the smoke-flue, to which they are fitted water-tight, and both ends of these pipes are open in the boiler-chamber. The smoke and heated products of combustion passing up the flue B impart heat quickly to these short pipes, and thereby heat the water. The upper end *e* of the smoke-flue serves for the attachment of the ordinary smoke-pipe B'. The upper chamber or warming-oven F sets upon the boiler or heater A and serves as a cover therefor and entirely closes it. This oven has doors *g* in its side and a vent-slide *h* in the upper part of its

end. The smoke-flue also passes up through the oven and is connected at the top with the ordinary smoke-pipe B'.

A filling device is provided to enable the boiler to be replenished without disturbing the oven and consists of a hinged or tilting lip I, fitted to an opening in the wall of the boiler. This lip has a pivot *j* at its bottom and side flanges *k* and is adapted to incline outward when in the open position, (see Fig. 1,) at which time water may be poured into the lip to supply the boiler. The lower edge of said lip laps down on the inner side of the said wall and makes a water-tight joint when filling. The side flanges have each a laterally-projecting lug *l*, which prevents the lip from tilting out too far. When the lip is pressed inward, it becomes flush or even with the wall, (see Fig. 3,) and thus closes the opening in the wall and prevents steam from escaping.

The boiler has a spigot *m* for drawing hot water.

The usefulness and advantages of a combined boiler and warming-oven of this construction are obvious.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

A portable heater adapted to rest on the top of a stove comprising the combination of an upper and lower chamber; a vertical smoke-pipe secured water-tight to the bottom of the lower chamber and extending up through the upper chamber; and an opening in the wall of the lower chamber provided with a hinged or tilting lip to tilt outward when open, and the lower edge of said lip lapping down on the inner side of the said wall to make a water-tight joint when filling, whereby the lower chamber may be filled without disturbing the upper chamber, as set forth.

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

WILLIAM H. HUBBARD, OF JAS. N.

Witnesses:

R. CARMINE,  
T. H. MOORE.