

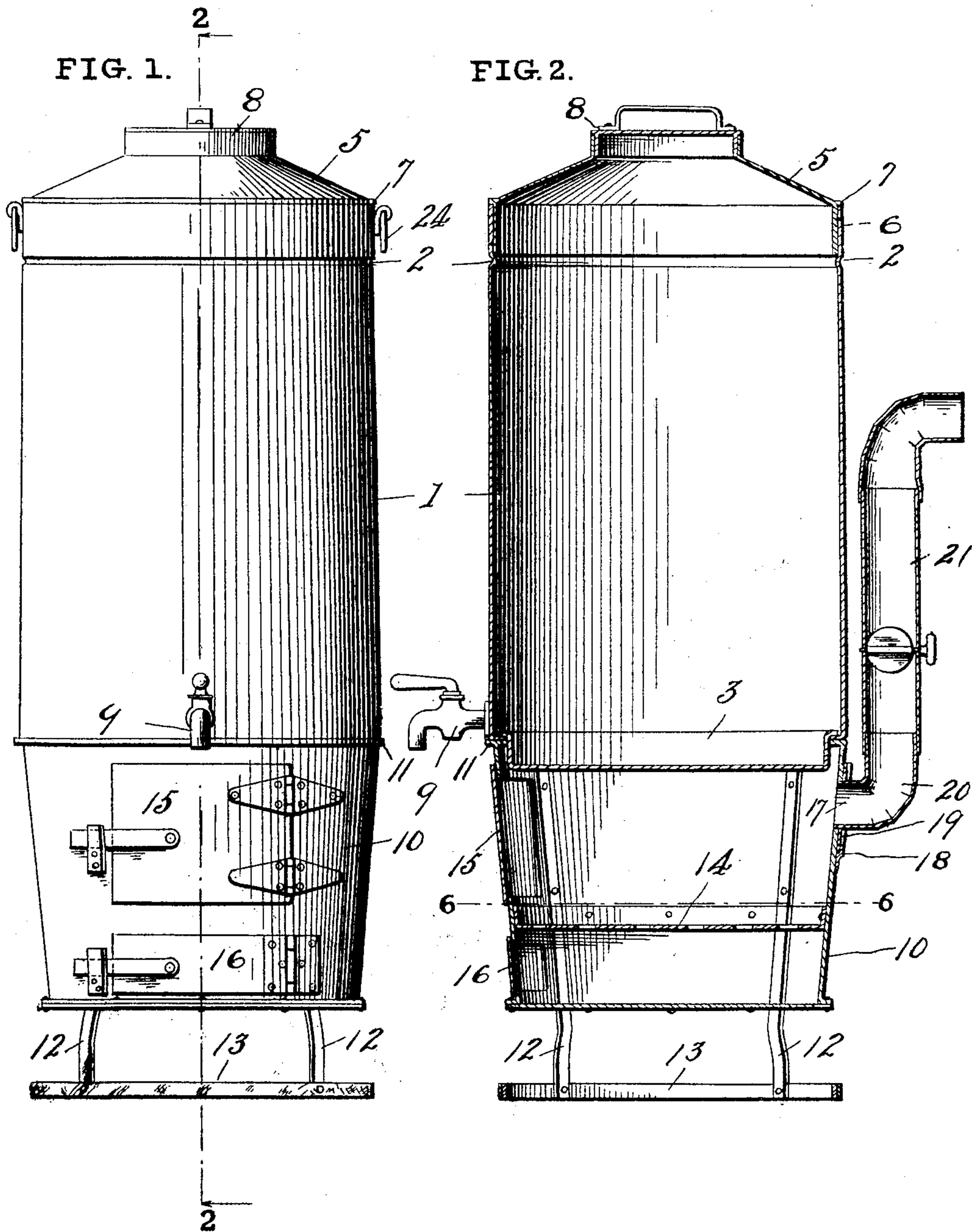
No. 803,301.

PATENTED OCT. 31, 1905.

E. M. MOUSER.  
DOMESTIC BOILER.

APPLICATION FILED MAR. 22, 1905.

2 SHEETS—SHEET 1.



Witnesses

Chas. H. Davis.  
L. Morrill.

Inventor,

Eugene M. Mouser.

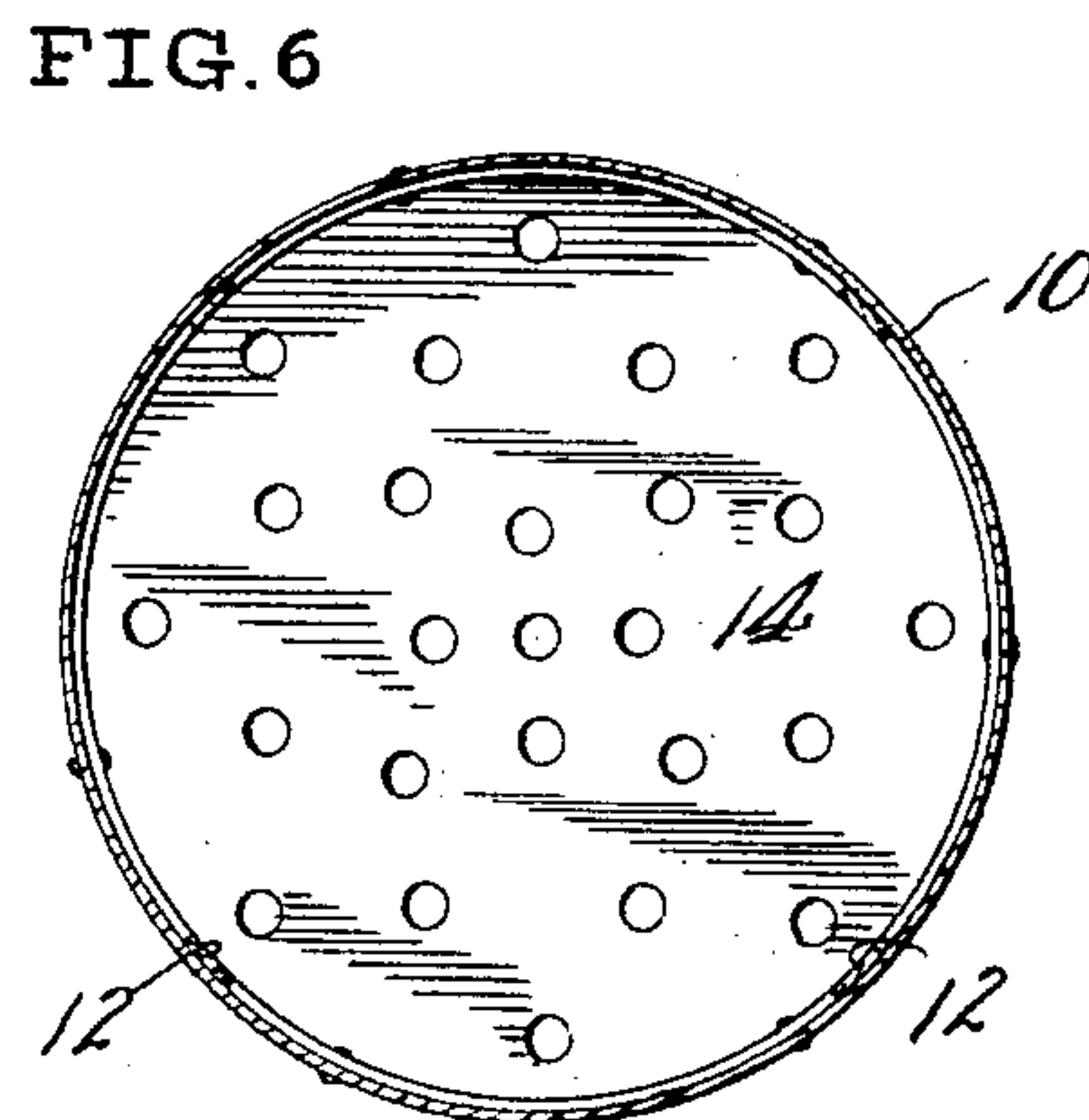
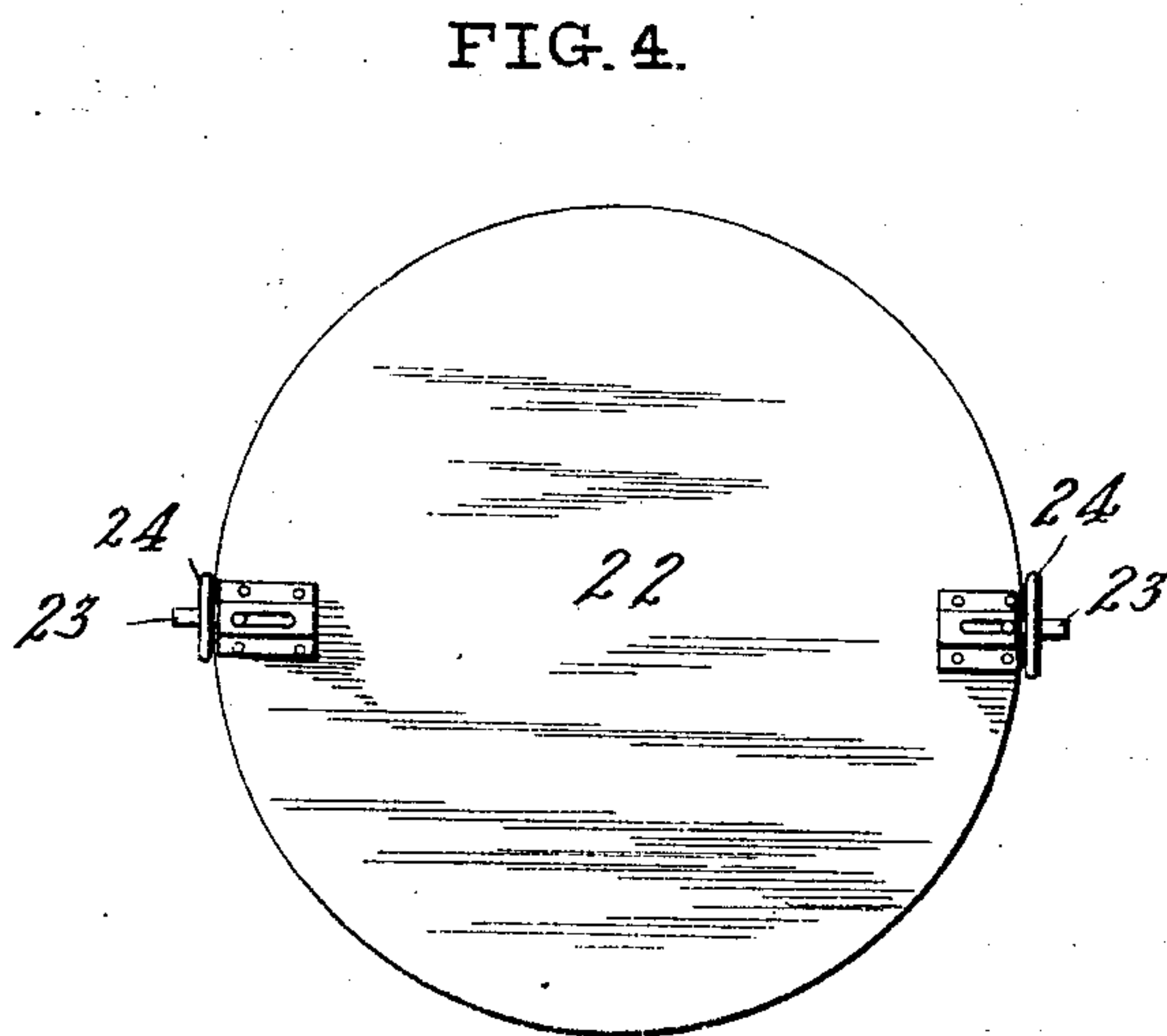
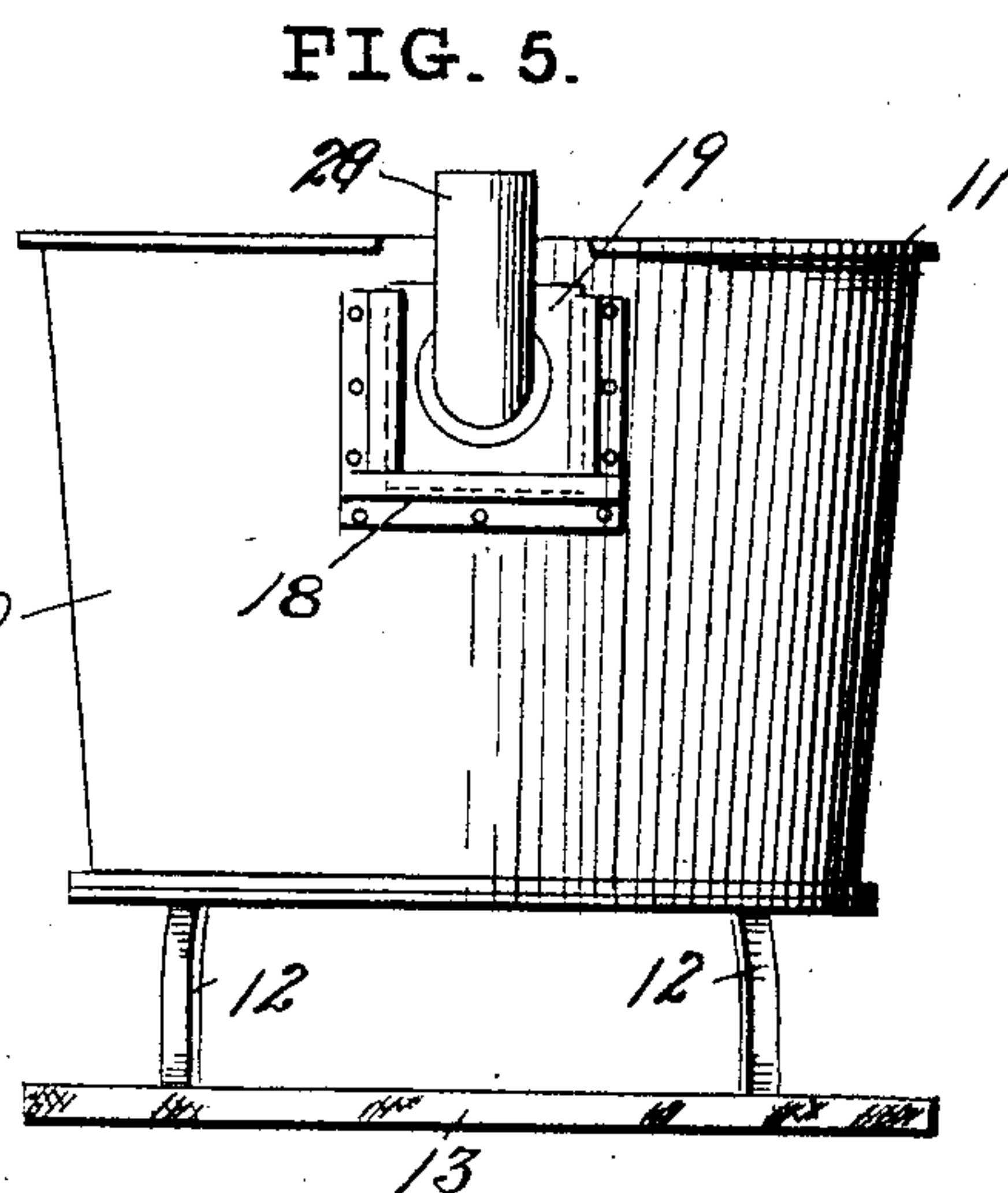
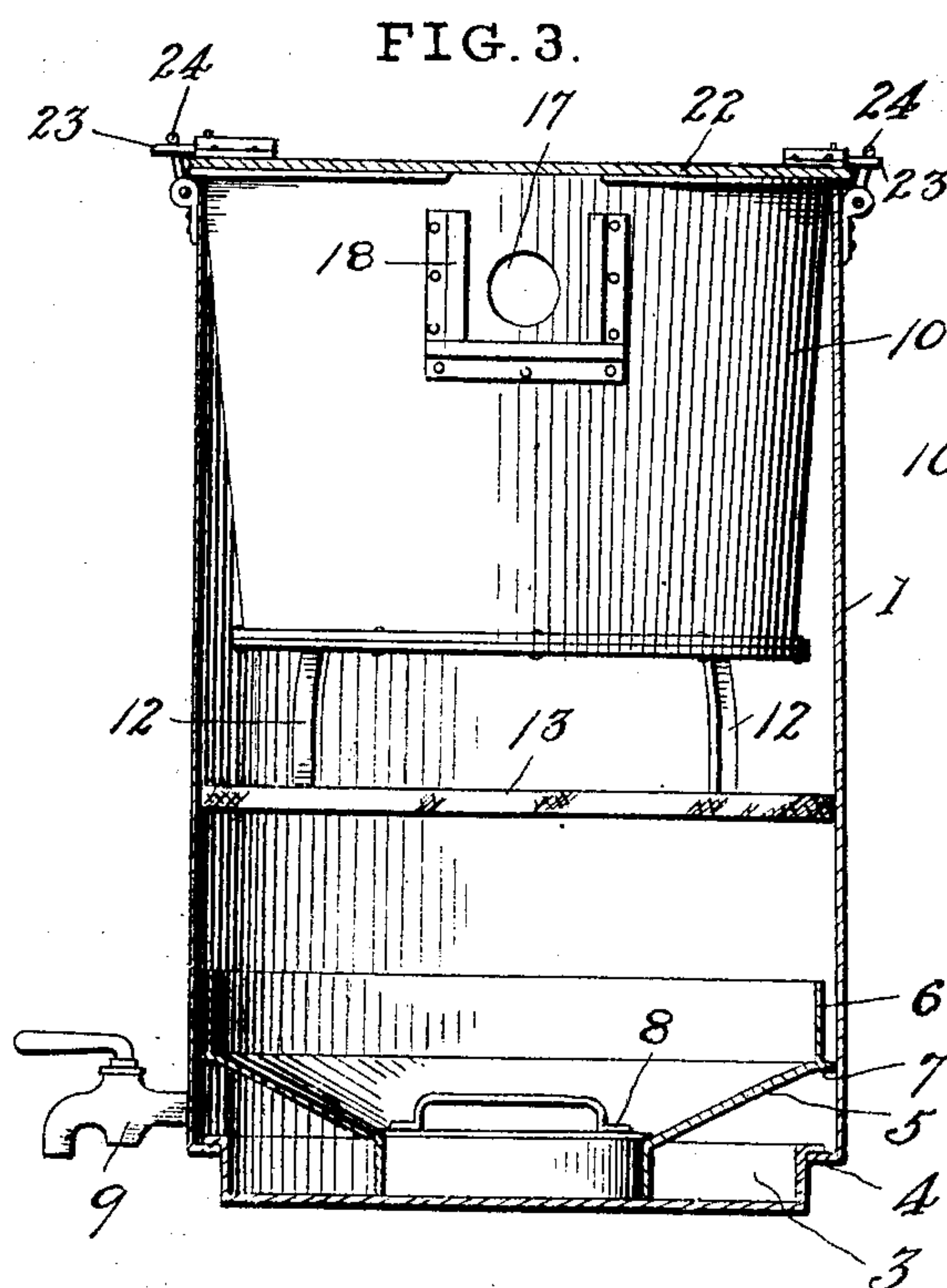
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2 SHEETS—SHEET 2.



Witnesses  
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# UNITED STATES PATENT OFFICE.

EUGENE M. MOUSER, OF COLUMBUS, OHIO.

## DOMESTIC BOILER.

No. 803,301.

Specification of Letters Patent.

Patented Oct. 31, 1905.

Application filed March 22, 1905. Serial No. 251,468.

*To all whom it may concern:*

Be it known that I, EUGENE M. MOUSER, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Domestic Boilers, of which the following is a specification.

My invention relates to domestic boilers, and has for its object to provide a device of this class especially adapted for use by campers and soldiers.

A further object of my invention is to provide a boiler with a furnace adapted to be employed and retained within the boiler.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a view in front elevation of my improved boiler assembled for use. Fig. 2 is a view of my improved boiler assembled for use and shown in vertical section, taken on line 2 2 of Fig. 1. Fig. 3 is a vertical sectional view of my improved boiler with the furnace and cover disposed within the boiler and in condition for transportation. Fig. 4 is a top plan view of my improved boiler assembled for transportation. Fig. 5 is a view in rear elevation of the furnace member of my improved boiler, showing the removable smoke-pipe joint. Fig. 6 is a transverse sectional view of the furnace of my improved boiler, taken on line 6 6 of Fig. 2.

Like characters of reference designate corresponding parts throughout the several views.

In its preferred embodiment my improved boiler comprises a substantially cylindrical receptacle, though departing somewhat from the true cylinder, in that it is diametrically slightly larger at the bottom than at the top. The receptacle 1 is formed open at the top and with an inwardly-pressed bead circumferentially surrounding the receptacle at a little distance from its upper edge, as shown at 2. The receptacle is provided with a pit-bottom 3, thereby producing an annular shoulder 4 adjacent its lower edge. A cover 5 is pro-

vided having a lip 6 proportioned to be slidably placed within the upper open end of the receptacle 1 and with the lower edge of the said lip contacting with the bead 2. The cover is further provided with an outstanding flange 7, extending entirely around said cover and proportioned to rest upon and engage the upper edge of the receptacle 1. The cover is provided with a central opening in which is disposed a flanged cover 8. To withdraw a fluid from the receptacle, a spigot 9 is introduced near the bottom thereof.

To heat the contents of the receptacle 1, a furnace 10 is provided, constructed in the form of truncated cone inverted and open at its upper end. The upper end is provided with a flange 11 and is proportioned to receive the pit-bottom 3 of the boiler. The furnace is closed at its lower end and provided with legs 12 and a ring 13, rigidly secured to the legs. The ring 13 is proportioned to fit within the receptacle 1, as shown in Fig. 3, and the furnace-body itself is also proportioned to fit within the receptacle and the flange 11 to rest upon the upper edge thereof. Internally the furnace-body is provided with a perforated diaphragm 14, serving as a grate to support fuel within the furnace. The furnace is provided with a fuel-door 15 and an ash-door 16, which also serves as a draft. Upon its rearward side the furnace is provided with a smoke-opening 17 and lips 18, surrounding the smoke-opening upon three sides in the form of a hollow square. A plate 19 is provided adapted to be slidably engaged by and within the lips 18 and provided with an opening registering with the smoke-opening 17. To the plate 19 is secured a smoke-pipe joint 20, and upon the said joint is placed a sectional smoke-pipe 21. A plate 22 is provided proportioned to cover the upper open end of the receptacle and the furnace and by means of the lugs 23, engaging the handles 24 of the receptacle, to retain the furnace snugly within the receptacle.

The operation of my improved domestic boiler is as follows: The parts being assembled as shown in Figs. 1 and 2, the device is ready for use as a boiler. When it is desired to pack the several parts for transportation, the cover 8 is removed from the cover 5, and by bending the top of the receptacle 1 to a slightly elliptical form the cover 5 is passed into the receptacle. The receptacle being slightly larger at the bottom than at the top, the cover is capable of being inverted within the receptacle and placed upon the bottom, as



shown in Fig. 3. The cover 8 is then placed within the central opening of the cover 5 inverted, as shown in Fig. 3. The receptacle 1 may then be lifted from the furnace 10 and the furnace slidably placed within the receptacle by first removing the pipe-joint 20 and plate 19. The base-ring 13 is proportioned to fit snugly the internal dimensions of the receptacle to prevent damage by jarring. The furnace being somewhat smaller at the lower portion than at the top, as shown, permits of the introduction of the base-ring at an angle to the plane of the top and base of the receptacle, and as the ring can be pressed somewhat out of a true circular form by contact-pressure with the inner sides of the receptacle it can be readily introduced therein, and when the flange 11 of the furnace contacts with the upper edge of the receptacle and the base-ring is brought into parallelism with the plane of the top and base of the receptacle it assumes its normal shape and fits snugly within the receptacle, as above stated. The sectional pipe 21 may be placed within the furnace upon the grate 14, and the cover 22, which has served as a protecting-plate beneath the ring 13, is placed upon the top of the receptacle 1 and the lugs 23 engaged by the handles 24. With the parts so assembled the device is in compact shape for convenient transportation and without liability of damage.

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

1. In a device of the class described, a boiler open at the top and provided with a cover, a furnace provided with a supporting-base and proportioned to fit snugly within the boiler and having an open top proportioned to receive the bottom of the boiler and a sectional smoke-pipe removably secured to the furnace.

2. In a device of the class described, a boiler open at the top and provided with a cover, a furnace open at the top and proportioned to receive therein the bottom of the boiler and to be placed and contained within the boiler, a base arranged to serve as a support for the furnace and proportioned to snugly fit within the boiler, said furnace being provided with a smoke-opening formed in one side thereof, lips secured to the furnace and surrounding the smoke-opening upon three sides, a plate proportioned to slide within and be engaged by the lips, a smoke-pipe joint secured to and carried by the plate and registering with the smoke-opening and a sectional smoke-pipe ar-

ranged to be removably placed upon the smoke-pipe joint.

3. In a device of the class described, a boiler open at its upper end and provided with a cover proportioned to slip within the boiler and having an outstanding flange disposed to rest upon the edge of the boiler, the diameter of the boiler at the top thereof being somewhat less than the diameter of the outstanding flange on the cover and the diameter at the bottom being slightly greater than the diameter of said flange, the parts being so proportioned that the cover can be inserted edgewise through the upper part of the boiler and laid flat on the bottom of the same.

4. In a device of the class described, a boiler open at the top and provided with a cover capable of passing within and being retained at the bottom of the boiler, a furnace provided with a removable smoke-flue and proportioned to be emplaced within and having a flange proportioned to rest upon the upper edge of the boiler, a base secured to the furnace proportioned to slip within and engage the inner surface of the boiler and a plate proportioned to cover the boiler and retain the furnace therein and to set beneath the furnace as a guard-plate.

5. In a device of the character described, a boiler, a furnace having an upper outstanding flange proportioned to receive the lower end of the said boiler, the furnace being diametrically smaller than and the said flange being diametrically larger than the interior of the said receptacle, the parts being so proportioned that the said furnace may be suspended within the boiler, the flange of the furnace resting upon the upper edge of the boiler.

6. In a device of the character described, a boiler, diametrically larger at the bottom than at the top, a cover for said boiler, diametrically larger than the top and smaller than the bottom of the boiler and proportioned to be inserted sidewise within the upper part of the said receptacle and to assume a position parallel with the bottom of the boiler and in proximity thereto, and a furnace proportioned to receive the lower end of the said boiler and to be inserted within the upper portion thereof.

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

EUGENE M. MOUSER.

Witnesses:

A. L. PHELPS,  
M. B. SCHLEY.