

(No Model.)

G. W. WHEATLY.
WASHING MACHINE.

No. 446,906.

Patented Feb. 24, 1891.

Fig. 1.

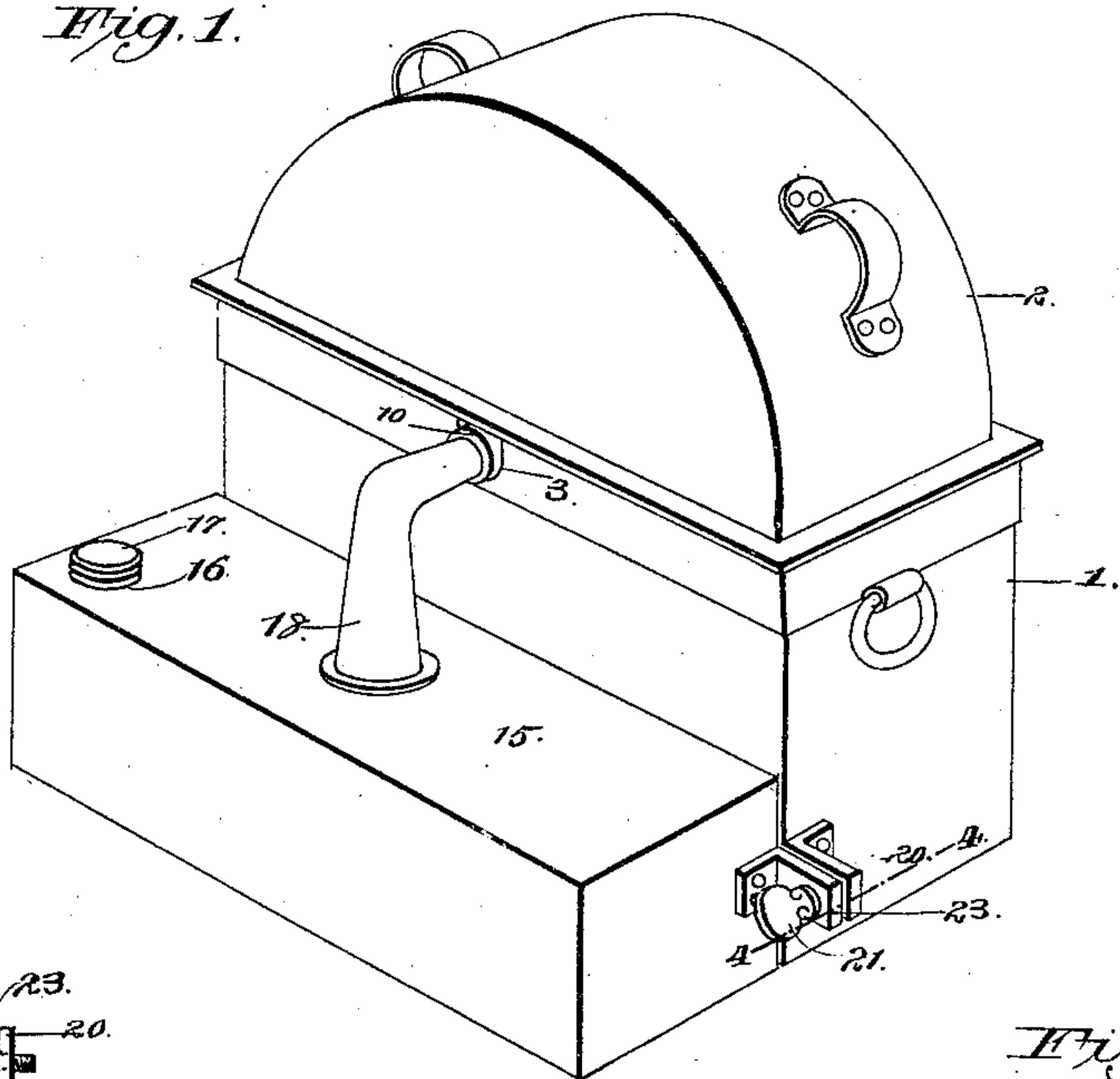


Fig. 3.

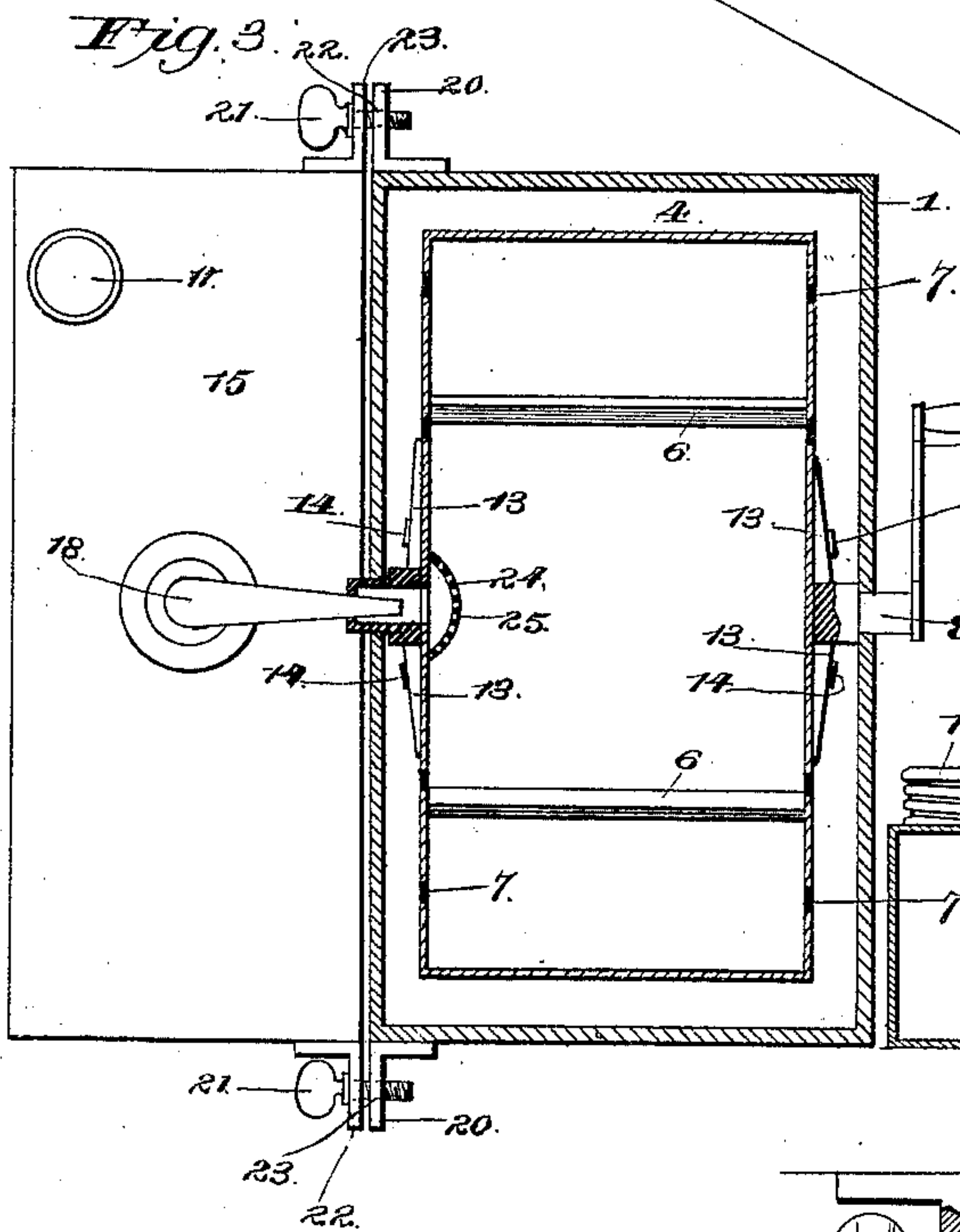


Fig. 2.

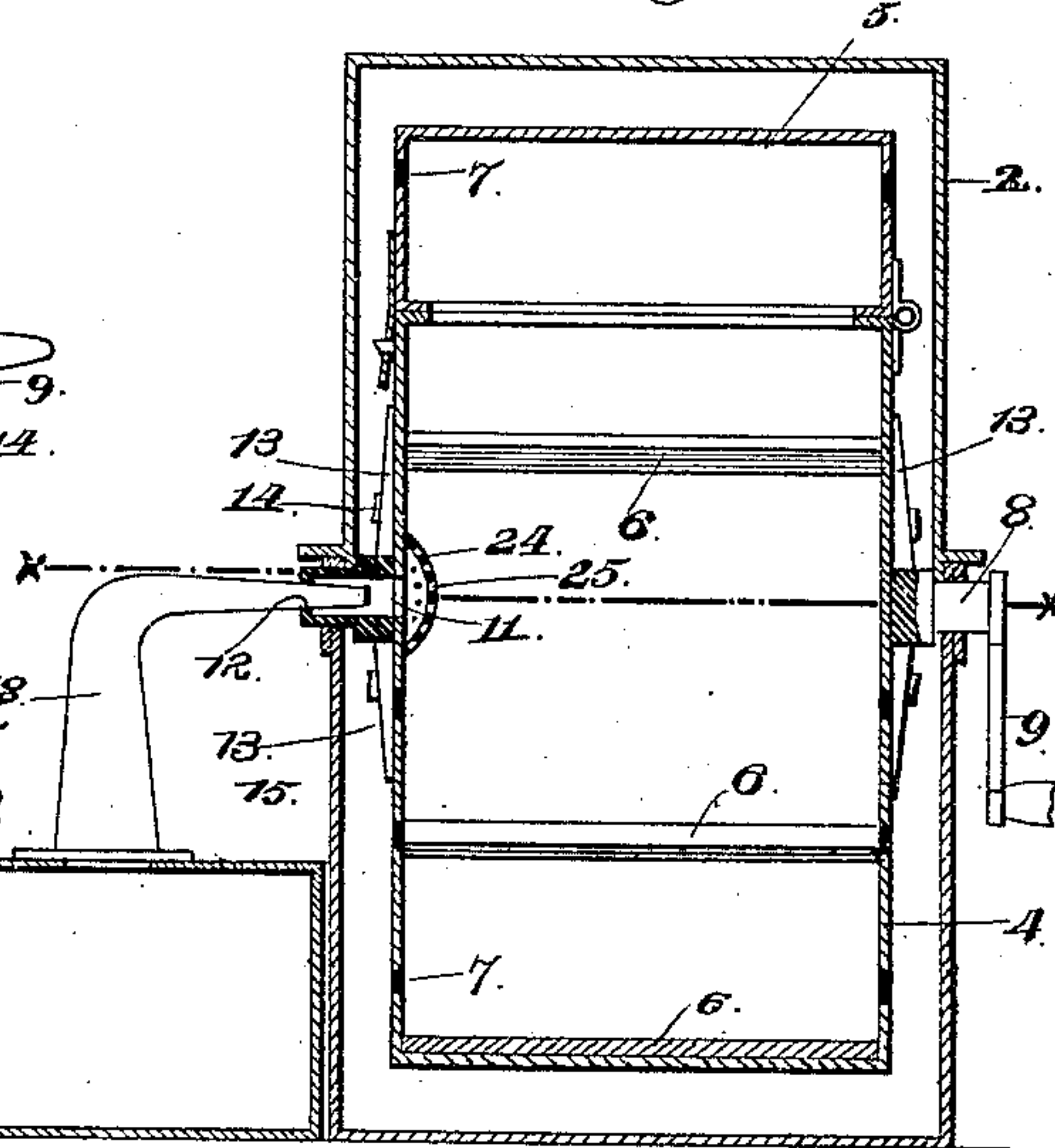
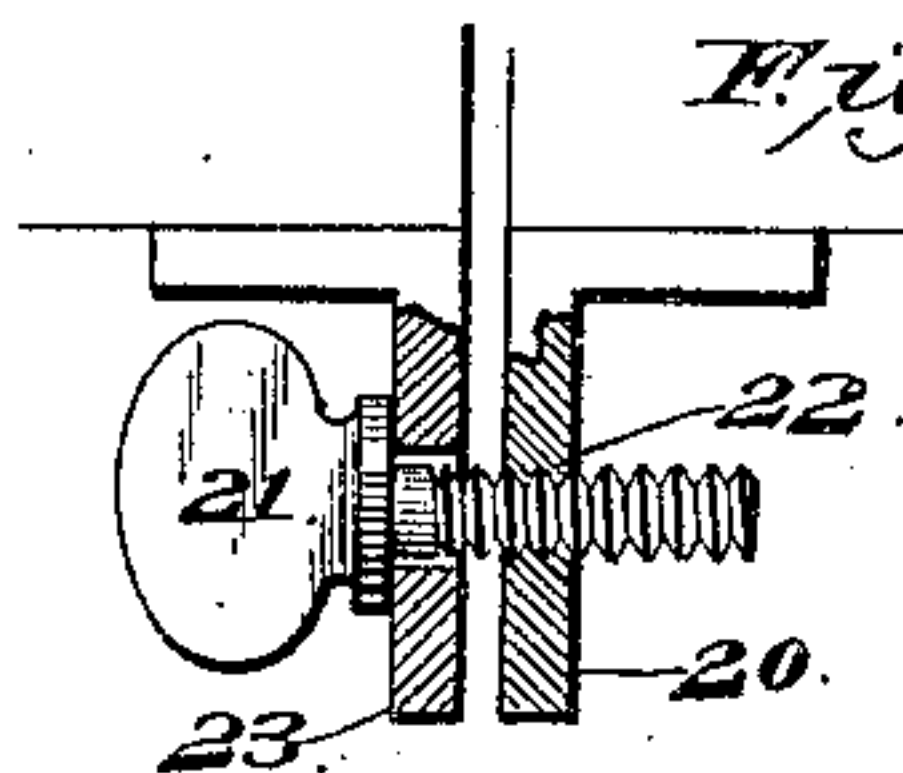


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

GEORGE W. WHEATLY, OF HARRODSBURG, KENTUCKY.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 446,906, dated February 24, 1891.

Application filed January 25, 1890. Serial No. 338,096. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. WHEATLY, a citizen of the United States, residing at Harrodsburg, in the county of Mercer and State of Kentucky, have invented a new and useful Washing-Machine, of which the following is a specification.

This invention relates to that class of washing-machines in which a drum or cylinder adapted to contain the clothes is mounted rev-
10 olubly in a suitable boiler, and in which live steam is supplied to the interior of the said revoluble drum for the purpose of assisting in the cleansing of the garments placed therein.

15 The invention has for its object to provide as nearly a steam-tight joint as may be between the revoluble drum and the supplementary boiler; and it has for a further object to construct a device which shall be in
20 all respects simple, efficient, inexpensive, and easily operated.

With these objects in view the invention consists in the improved construction and arrangement of parts, which will hereinafter be
25 more fully described, and particularly pointed out in the claim.

In the drawings, Figure 1 is a perspective view of a washing-machine constructed in accordance with my invention. Fig. 2 is a ver-
30 tical sectional view taken longitudinally through the axis of the revolving cylinder. Fig. 3 is a horizontal sectional view taken on the line *xx* of Fig. 2. Fig. 4 is a detail sectional view taken on the line 4 4 in Fig. 1.

35 Like numerals of reference indicate like parts in all the figures.

1 designates a wash-boiler of ordinary construction and rectangular in shape, having a semi-cylindrical cover 2. The upper edges
40 of the sides of said boiler are provided with bearings 3, in which the revoluble drum or cylinder 4 is mounted. Said revoluble drum is constructed in the usual manner of sheet metal and is provided with a hinged lid 5,
45 through which access may be had to the interior for the purpose of placing the garments to be washed therein. Interiorly in the drum are arranged several transverse ribs 6 for the purpose of assisting in agitating the contents,
50 and the sides of the drum or cylinder are provided with perforations 7 to admit the water

from the boiler. Centrally upon one end of the drum is secured a trunnion 8, having a handle or crank 9, by means of which the drum may be rotated. Centrally upon the
55 opposite end of the drum is mounted a tubular trunnion 10, which is in alignment with a perforation 11 in the wall of the drum. This tubular trunnion is provided at its outer end with an interior annular rib or flange 12, the
60 function of which will be hereinafter set forth. The solid and the tubular trunnion are each provided with radiating arms 13 to receive the rivets 14, by means of which they are se-
65 cured to the ends of the drum-cylinder.

15 designates the supplementary boiler, which may be rectangular in shape, so as to fit against the side of the main boiler 1, as will be seen in the drawings. The said supplementary boiler is provided with an open-
70 ing or filling-tube 16, having a screw cap or cover 17, and the said supplementary boiler is likewise provided with an escape-tube 18 for the purpose of conveying the live steam
75 from the supplementary boiler to the interior of the drum or cylinder. Said supplementary tube is made tapering, as shown, and is constructed of a single piece of metal, which is bent so as to form an elbow, the horizontal
80 portion of which is adapted to enter the outer end of the tubular trunnion 10. It will be seen that when the said tapering steam-tube is forced lightly into the tubular trunnion it will engage the annular rib 12, formed at the
85 outer end of the latter, and thus form a practically steam-tight joint. This at the same time will not prevent the drum or cylinder from being easily revolved.

The main boiler is provided with lugs or flanges 20, having screw-threaded perforations
90 22 for the reception of thumb-screws 21, extending through perforations in lugs 23 upon the supplementary boiler. The two boilers may thus be connected for operation and drawn up together sufficiently to keep the
95 joint between the steam-pipe and the tubular trunnion always steam tight.

Upon the inner side of the drum or cylinder is mounted a convex plate 24, covering the perforation 11 at the inner end of the tu-
100 bular trunnion and having numerous perforations 25. This is for the purpose of pre-

venting the clothes contained in the cylinder from choking the tubular trunnion, and thus interfering with the admission of steam.

The operation of this invention will be readily understood from the foregoing description, taken in connection with the drawings. The garments to be washed are placed in the drum or cylinder, which latter is then adjusted in the boiler 1, in which a suitable quantity of soapsuds is likewise placed. The boiler 1 is then placed upon the stove and connected with the supplementary boiler, the live steam from which enters the drum or cylinder, which is being meanwhile slowly rotated. The clothes will thus be subjected to a continuous gentle agitation and will be cleansed speedily and effectively and without being subjected to injurious rubbing or friction.

Having described my invention, what I claim is—

In a washing-machine, the combination of

the main boiler having the plates 20, provided with screw-threaded perforations, the revolvable drum or cylinder mounted in said boiler and having a tubular trunnion, the supplementary boiler having the perforated plates or lugs 23, the set-screws 21, and the tapering L-shaped steam-pipe extending from the supplementary boiler into the tubular trunnion of the drum or cylinder mounted in the main boiler, all arranged as described, whereby by tightening the set-screws the boilers may be drawn together to effect a steam-tight joint between the steam-pipe and the tubular trunnion, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

G. W. WHEATLY.

Witnesses:

WM. B. ALLIN,
W. D. POWELL.