

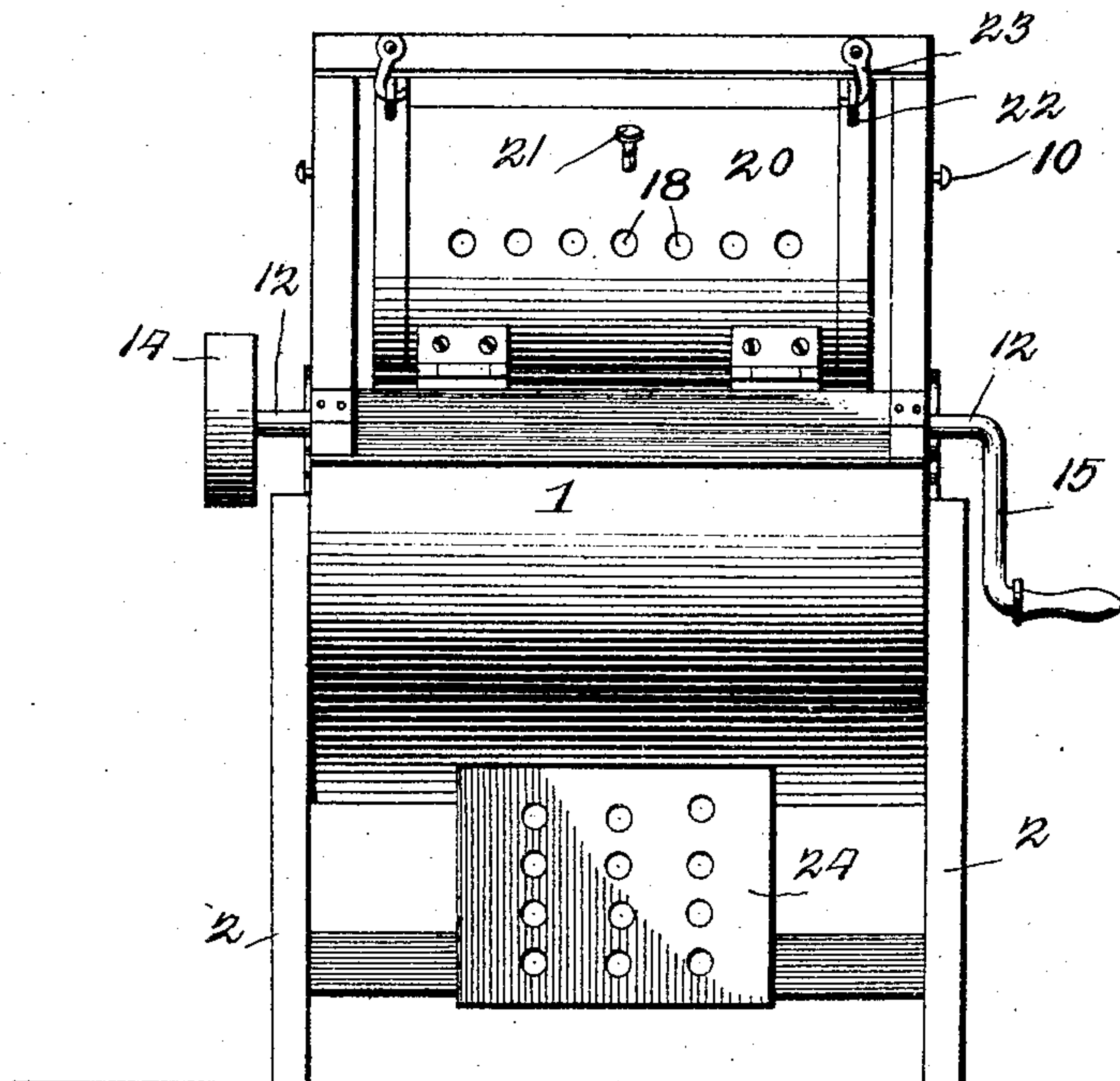
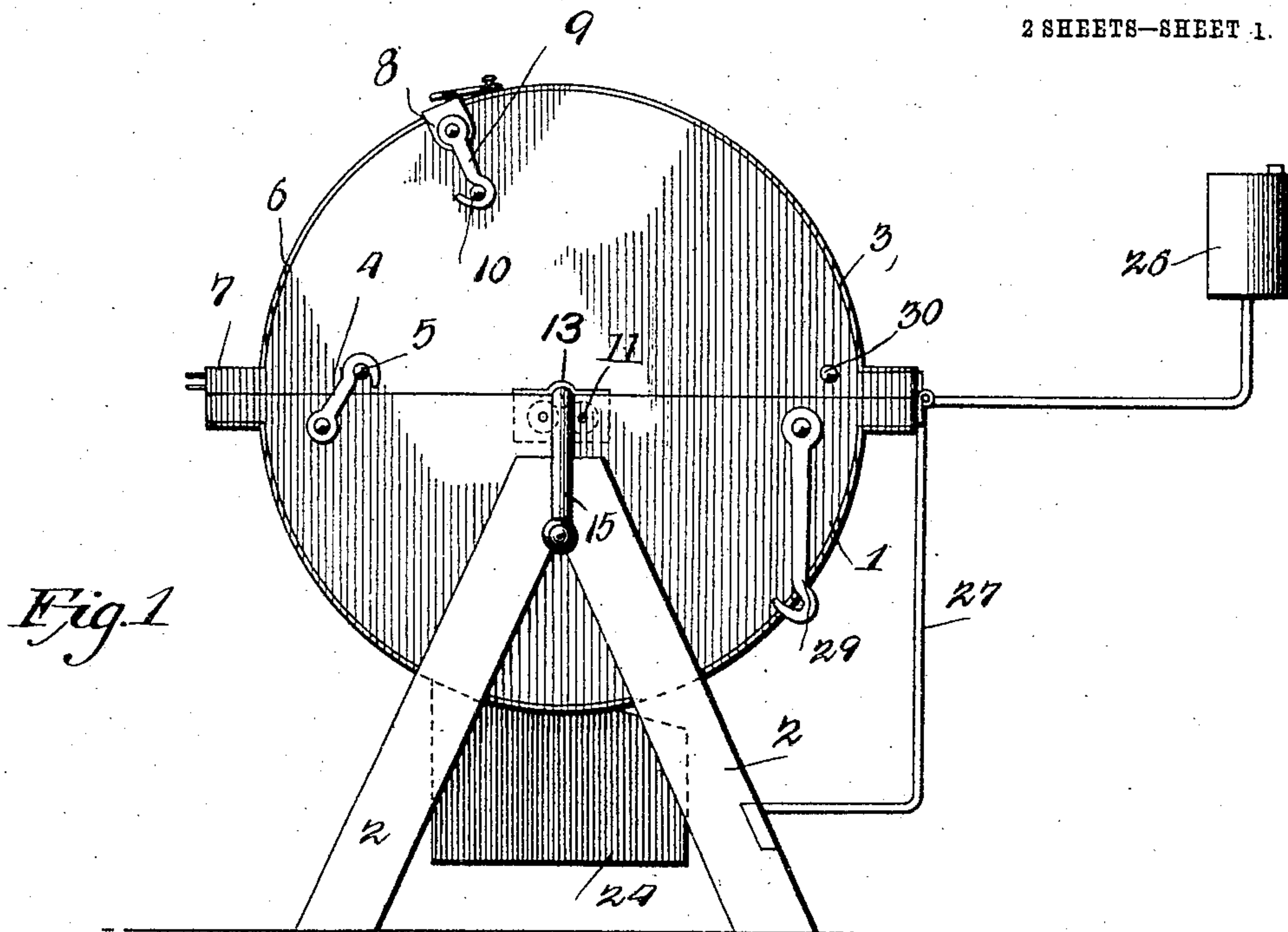
No. 779,856.

PATENTED JAN. 10, 1905.

E. J. KILMURRY.
WASHING MACHINE.

APPLICATION FILED MAY 24, 1904.

2 SHEETS—SHEET 1.



Inventor

Edward J. Kilmurry,

By

Victor J. Crane

Attorney

Witnesses

Frank W. Hough.

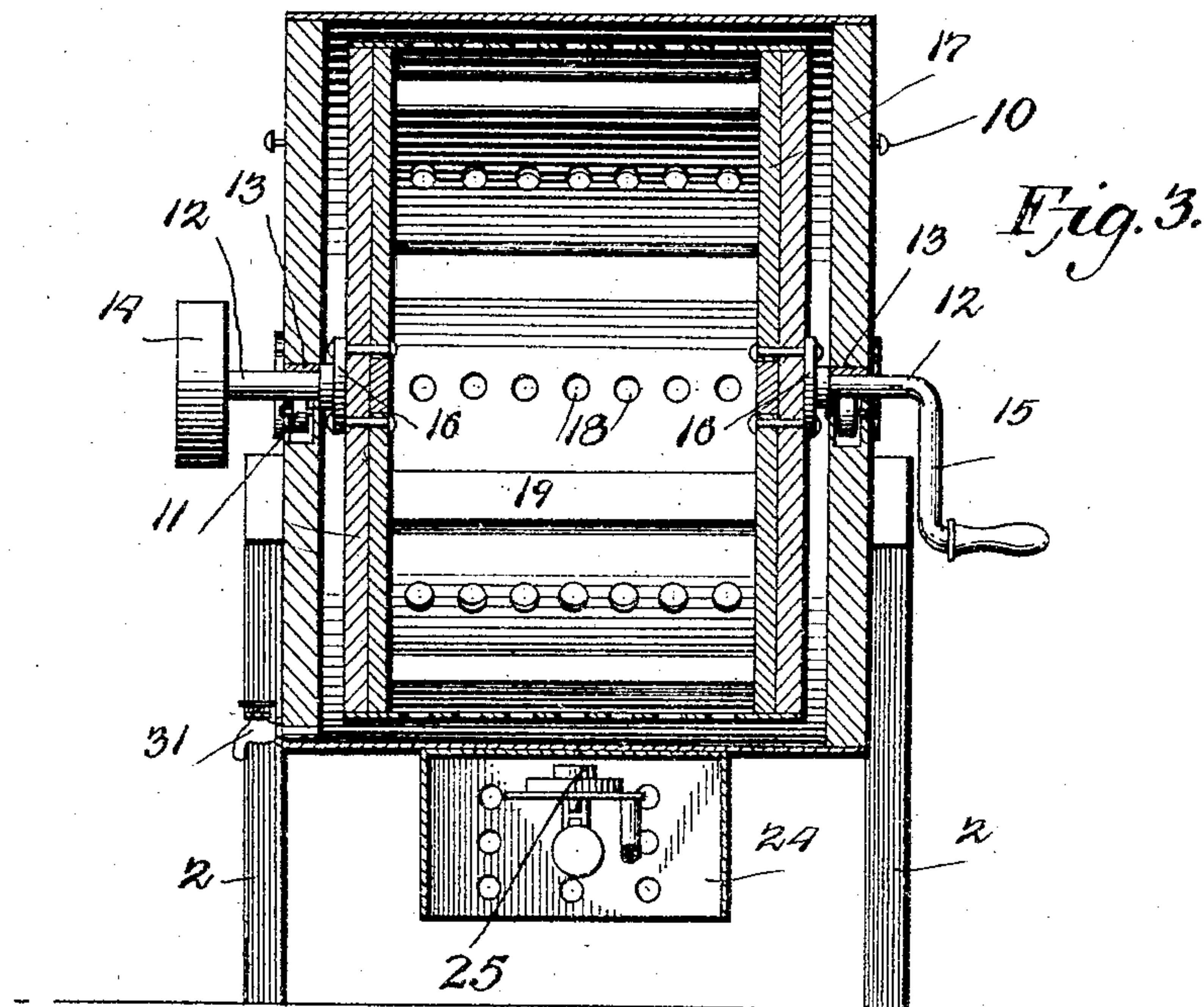
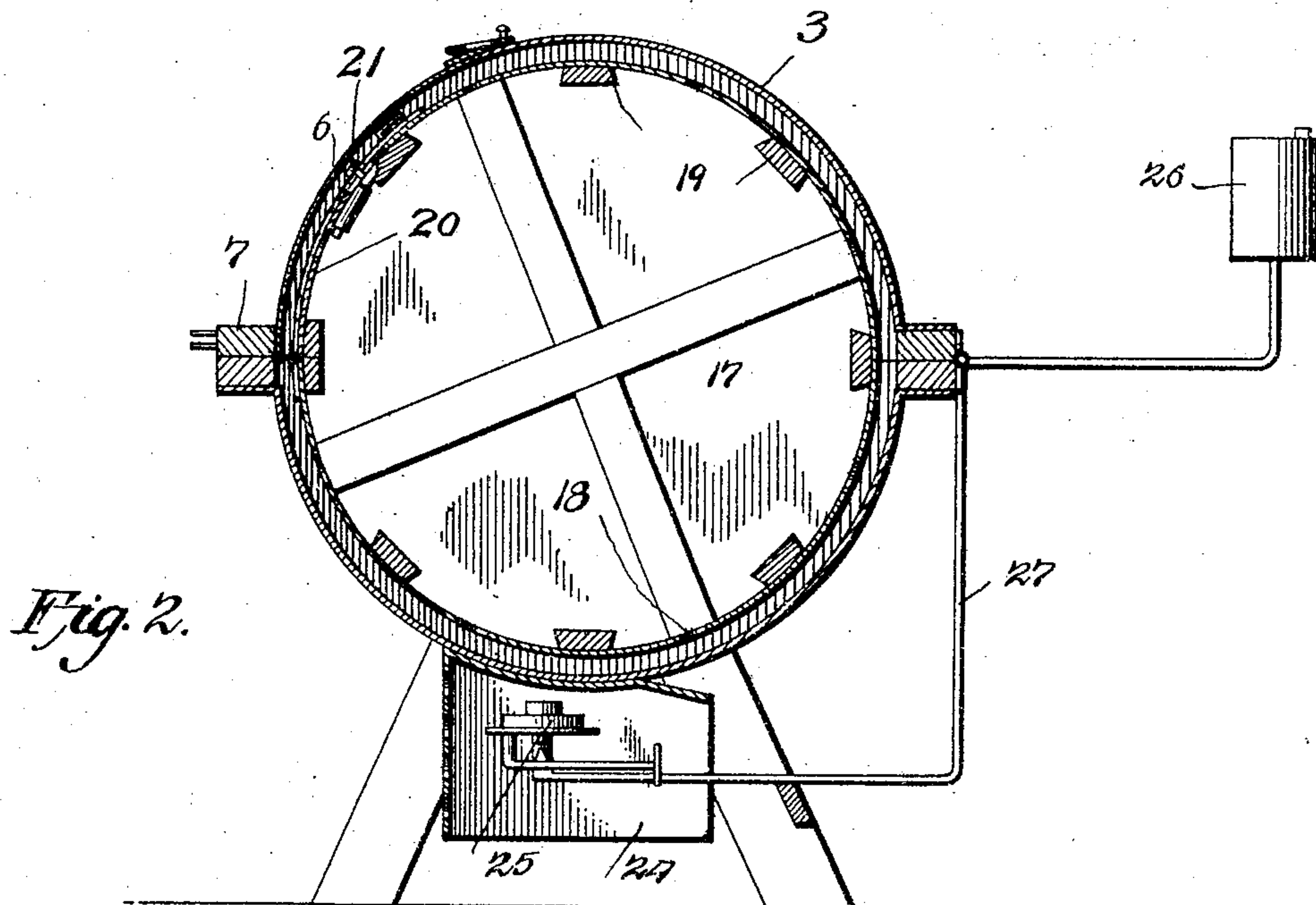
Katharine Allen

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2 SHEETS—SHEET 2.



Inventor

Edward J. Kilmurry

By

Victor J. Evans
Attorney

Witnesses
Frank W. Fough

Katharine Allen

UNITED STATES PATENT OFFICE.

EDWARD J. KILMURRY, OF ATKINSON, NEBRASKA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 779,856, dated January 10, 1905.

Application filed May 24, 1904. Serial No. 209,464.

To all whom it may concern:

Be it known that I, EDWARD J. KILMURRY, a citizen of the United States, residing at Atkinson, in the county of Holt and State of Nebraska, have invented new and useful Improvements in Washing-Machines, of which the following is a specification.

My invention relates to new and useful improvements in washing-machines, and its object is to provide a simple, inexpensive, and compact device of this character having a revoluble tub therein for the reception of articles to be cleaned, and this tub is inclosed by a cylindrical receptacle constructed of metal or other material which will not be injured by heat and which has a burner thereunder, whereby the contents of the machine can be heated to a desired temperature.

Another object of the invention is to provide a tub of novel construction which can be readily rotated and which will cause the thorough agitation of its contents during the operation of the machine.

With the above and other objects in view the invention consists of a receptacle supported upon suitable standards and having a closure which with said receptacle forms a substantially cylindrical body of the machine. Arranged under the receptacle is a burner for heating the contents of the machine, and revolubly mounted within the receptacle is a tub, cylindrical in form and having a perforated periphery. Parallel bars are located within the tub for the purpose of agitating the clothes during the operation of the machine. Means are provided whereby the tub can be readily rotated.

The invention also consists of the further novel construction and combination of parts hereinafter more fully described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is a side elevation of the machine with all of its parts in operative position. Fig. 2 is a vertical transverse section there-through. Fig. 3 is a vertical longitudinal section through the tub, and Fig. 4 is a front elevation of the tub and showing the casing open.

Referring to the figures by numerals of

reference, 1 is the body of the machine, which is preferably substantially cylindrical in form and is supported by legs 2. This body has a semicylindrical closure 3, which is hinged thereto and is adapted to be locked in closed position by means of hooks 4, which engage pins 5 upon the closure 3. The front of the closure is provided with a removable lid 6, one end of which is adapted to fit in rear of a cross-strip 7, located at the front end of the closure, while the other end of the lid is provided with ears 8, which overlap the sides of the closure 3 and are provided with hooks 9 for engaging pins 10 upon said closure. The lid is thus held normally in position upon the closure, and to remove it it is necessary to disengage the two hooks 9 from their respective pins 10. Rollers 11 are journaled within the upper edges of the body 1, at the center of the sides thereof, and form bearings for shafts 12, which are held in place by straps 13, secured thereover and upon the body 1. One of the shafts 12 has a pulley 14 thereon, while the other shaft is provided with a crank 15, whereby the same may be readily rotated. The inner ends of the shafts 12 are provided with heads 16, which are bolted or otherwise secured to the ends of a revoluble tub 17, preferably cylindrical in form. The periphery of the tub is provided with apertures 18, and at regular intervals within the tub are arranged cross-strips 19, which extend from side to side thereof and are preferably formed with beveled edges. The curved face of the tub 17 is preferably formed of sheet metal, such as galvanized iron, and arranged upon the tub is a hinged closure 20, which is adapted to be locked in position by means of a spring-catch 21. Eyes 22 extend from the tub 17 adjacent the closure and are adapted to be engaged by hooks 23, which are pivoted to the closure 3 adjacent the lid 6 thereon, said pivots being loose, so as to permit the hooks to swing downward into the closure 3 and into engagement with the eyes 22 after lid 6 has been removed and the eyes have been brought into position with the hooks 23.

A casing 24 is located under the body 1 and has a hydrocarbon-burner 25 therein, which

may communicate with a fuel-tank 26 by means of a pipe 27, connected to the machine in any suitable manner. The cross-strip 7, before referred to, has projections 28 thereon, to which is adapted to be secured a clothes-wringer. A hook 29 is pivoted to the body adjacent the hinge of closure 3 and is adapted when said closure is opened to engage a pin 30 thereon and hold the same in opened position. A valved drain 31 is arranged in the bottom of the body 1.

When it is desired to wash clothes in this machine, the body 1 is partly filled with water by first removing the lid 6 in closure 3. The tub 17 is then rotated by means of crank 15 until its closure 20 is brought in position opposite the opening in the closure 3. Closure 20 is then opened and hooks 23 swung downward into engagement with staples 22. The tub is thus locked against movement, and articles to be cleaned can be placed therein. After a sufficient number of articles have been placed within the tub the hooks 23 are disengaged therefrom, and closure 20 is locked in place by means of catch 21. Lid 6 is then inserted in rear of strip 7 and locked at its upper end by means of hooks 9. Fuel can be lighted at the burner 25, and the flame will be directed against the bottom of the body 1 and will heat the contents thereof. By turning the tub 17 by means of crank 15 the clothes therein will be thoroughly agitated, and this operation will be accelerated by the strips 19, arranged within the tub. Water will enter the tub through the openings 18 therein and

will pass through the clothes to quickly clean them. It will be seen that the device is very simple and inexpensive in construction, compact in form, and requires but little power to operate the same.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing any of the advantages thereof, and I therefore reserve the right to make such changes as fairly fall within the scope of my invention.

Having thus described the invention, what is claimed as new is—

In a washing-machine, a casing having a hinged cover provided with an opening, a cross-strip attached to the cover at the lower edge of the opening, a lid for normally closing said opening and adapted for engagement at its lower edge beneath the cross-strip, downturned ears attached adjacent the upper edge of the lid and adapted to engage the ends of the cover, engaging hooks pivoted to the ears, studs carried by the cover for engagement by the hooks to secure the lid in place, a clothes-receiving cylinder arranged for rotation within the casing, and means for rotating the cylinder.

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

EDWARD J. KILMURRY.

Witnesses:

J. F. HAYES,

FRED H. SWINGLEY.