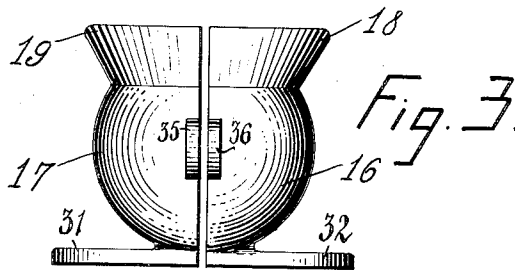
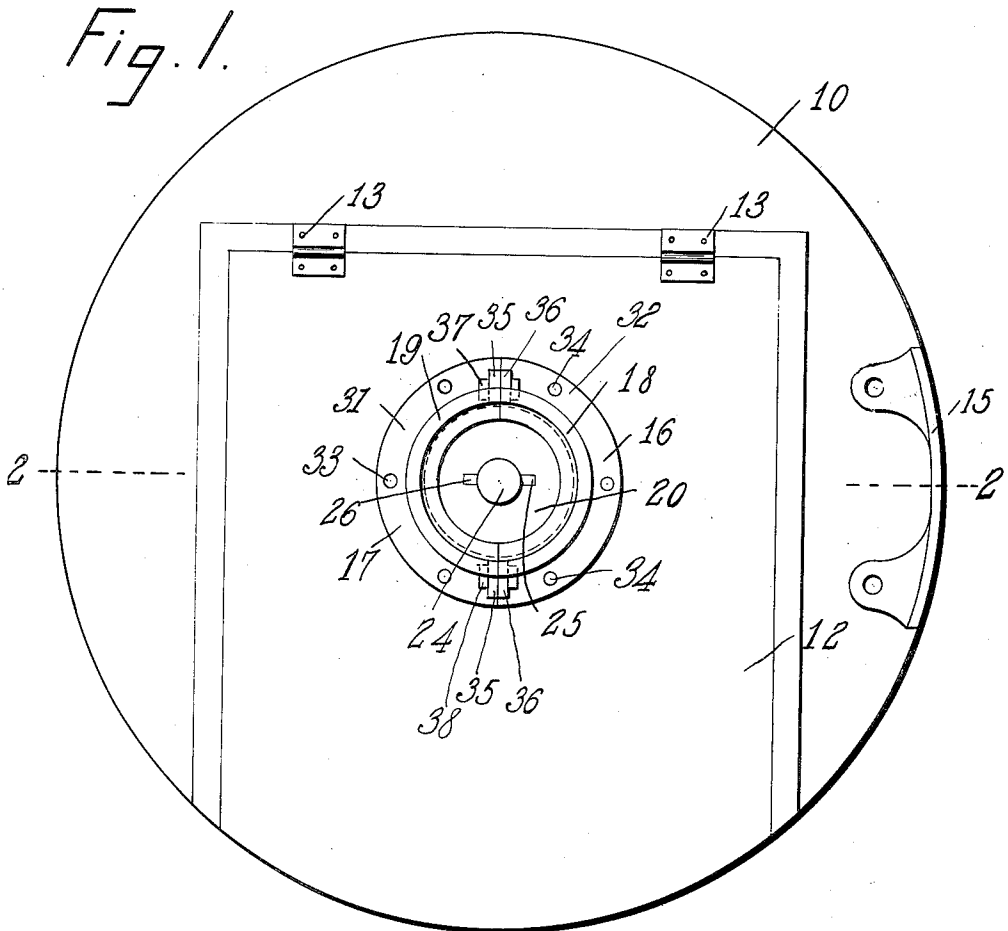


941,989.

Patented Nov. 30, 1909.
2 SHEETS—SHEET 1.

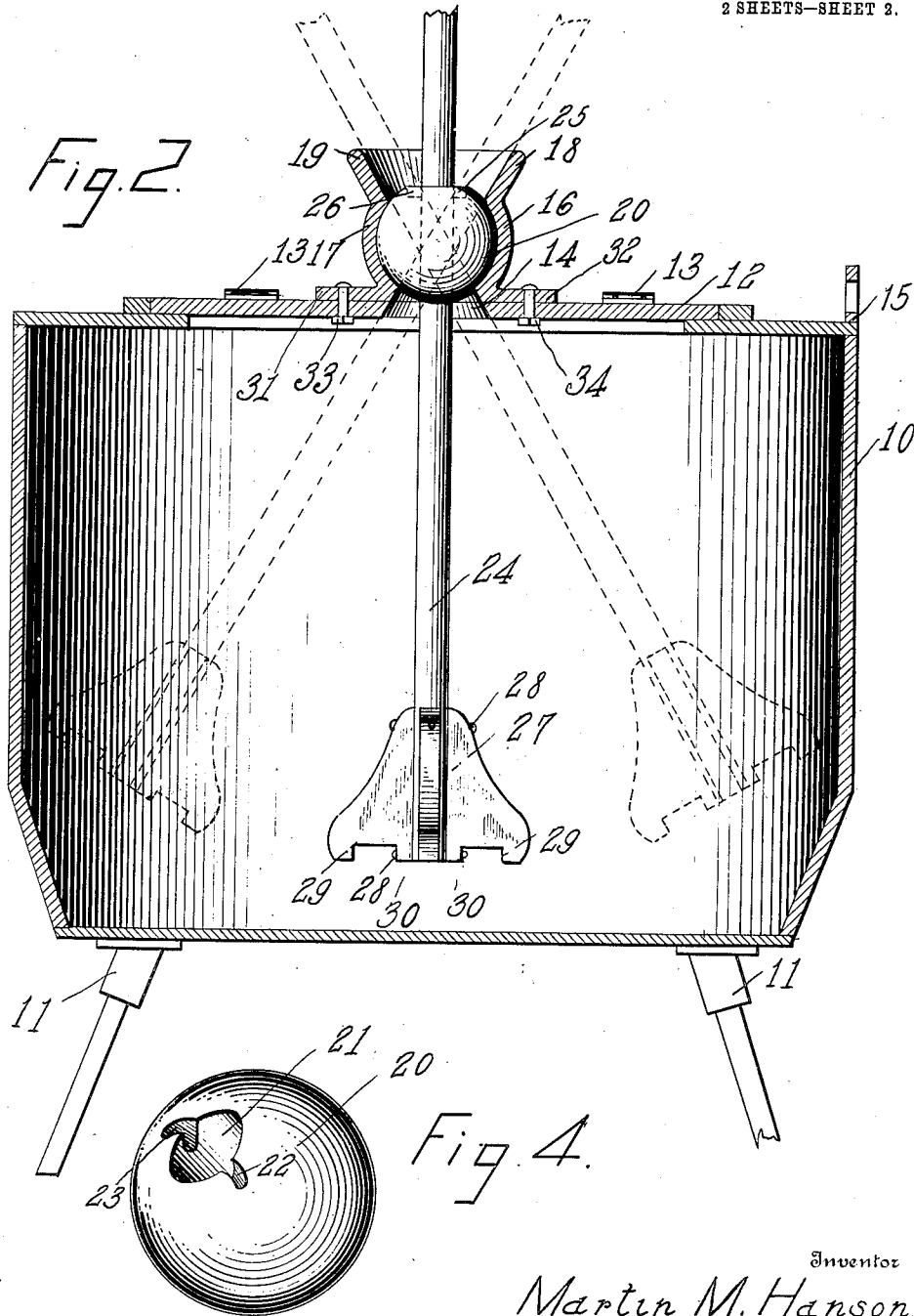


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 2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

MARTIN M. HANSON, OF ELLIOTT, ILLINOIS.

WASHING-MACHINE.

941,989.

Specification of Letters Patent.

Patented Nov. 30, 1909.

Application filed May 6, 1909. Serial No. 494,337.

To all whom it may concern:

Be it known that I, MARTIN M. HANSON, a citizen of the United States, residing at Elliott, in the county of Ford, State of Illinois, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to washing machines, and has for one of its objects to improve the construction and increase the efficiency and utility of devices of this character.

With this and other objects in view, the invention consists in certain novel features of construction, as hereafter shown and described and then specifically pointed out in the claim, and in the drawings illustrative of the preferred embodiment of the invention, Figure 1 is a plan view of the improved device. Fig. 2 is a section on the line 2—2 of Fig. 1. Fig. 3 is a view of the two part socket with the parts disconnected. Fig. 4 is a perspective view of the globular supporting member detached.

The improved device includes a receptacle or tub for the clothes to be washed, which may be of any suitable form or capacity, and constructed from any suitable material, and for the purpose of illustration a conventional receptacle or tub is represented at 10. The tub or receptacle is preferably cylindrical and mounted upon supporting legs 11 and with a cover 12 hinged at 13, the cover provided with a central aperture 14, and the tub provided with a plate 15 to which the wringer is to be attached.

Mounted upon the cover 12 and surrounding the aperture 14 is a socket formed in two parts 16—17, each part having a semi-spherical interior, so that when the two parts are united a socket having a spherical interior is produced. The parts 16—17 are provided with flaring upper portions 18—19 forming a converging entrance to the upper side of the socket, while the lower sides of the socket members communicate with the aperture 14 of the cover 12, and are pro-

vided with flanges 31—32 bearing upon the cover 12 and secured thereto by bolts 33—34, or other suitable fastening devices. The socket members 16—17 are provided with ears 35—36 through which clamp bolts 37—38 operate, to hold the socket members.

Fitting within the spherical socket is a globular member 20 having a central bore 21 and with transverse notches 22—23 opening into the bore from opposite sides, as shown. Slidably arranged through the bore of the member 20 is a rod 24, the rod having oppositely arranged pins 25—26 intermediate its ends, the pins adapted to be located in the notches 22—23. By this means the rod is coupled detachably to the globular member. At its lower end the rod 24 is provided with a plurality of radially extending feet 27, the combined feet and the portion of the rod to which they are connected forming the clothes engaging portion of the washer. The feet 27 are secured by screws or other fastening means 28 to the rod 24, and are formed with projecting lugs 29 at their outer ends, and with projections 30 at their inner ends, the projections 30 being in contact with the lower end of the rod 24. By this means the clothes within the receptacle may be rapidly and vigorously agitated by rotating and vibrating the rod 24, the globular and spherical device produced by the members 16—17 forming a "universal joint" between the rod and the cover 12. The rod being arranged slidably through the globular members, may be moved vertically as well as vibrated and rotated, the vertical movement being limited to a certain extent by the pins 25—26. The rod 24 and its feet 27 will preferably be of wood, while the socket 16—17 and the globular member 20 and the pins 25—26 will preferably be of metal and galvanized or otherwise coated to prevent corrosion. The rod 24 may also be of metal if required.

It will thus be obvious that a simply constructed and efficient washing machine is produced, which may be inexpensively manufactured, and of any required size and of any suitable material or capacity.

What is claimed is:—

A device of the class described compris-

ing a socket having a spherical interior and adapted to be arranged over an aperture in a clothes receptacle, a globular member movably mounted within said socket, said globular member having a central bore and with
5 notches communicating with the same, a rod slidable through the bore of said globular member, pins carried by said rod and detachably engaging in said notches, and

clothes engaging members carried by said 10 rod.

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

MARTIN M. HANSON.

Witnesses:

N. S. RICHARDSON,
J. L. KREITZER.