A. J. FISHER.

WASHING AND RINSING MACHINE.

APPLICATION FILED APR. 13, 1920.

1,396,364. **Patented Nov. 8, 1921.**

Fig. 1.

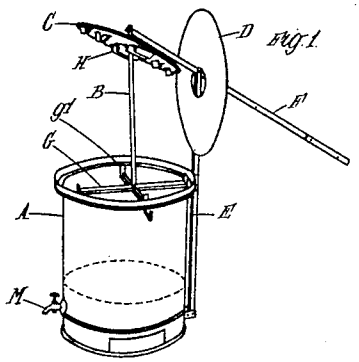


Fig. 2.

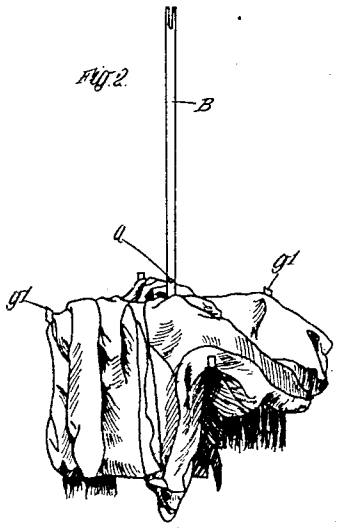


Fig. 3.

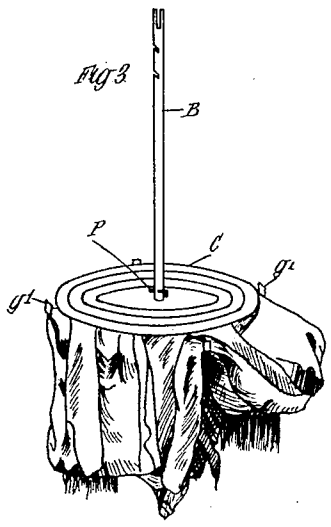


Fig. 4.

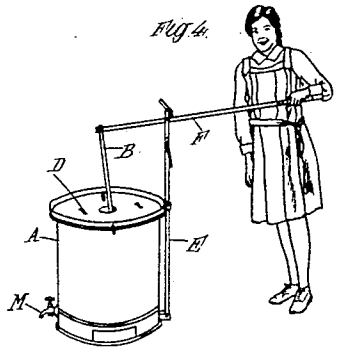
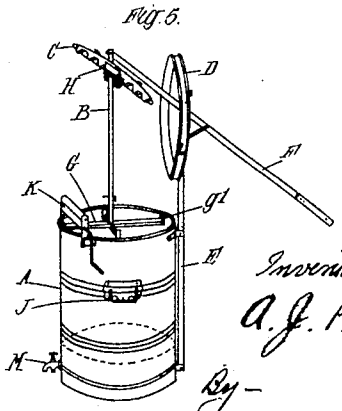


Fig. 6.



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UNITED STATES PATENT OFFICE.

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WASHING AND RINSING MACHINE.

1,396,364. Specification of Letters Patent. Patented Nov. 8, 1921.

Application filed April 13, 1920. Serial No. 373,640.

(GRANTED UNDER THE PROVISIONS OF THE ACT OF MARCH 3, 1921, 41 STAT. L., 1313.)

To all whom it may concern:

Be it known that I, ALEXANDER JOHN FISHER, a subject of the King of Great Britain, residing at 255 Maidstone road, Rochester, in the county of Kent, England, have invented certain new and useful Improvements in Washing and Rinsing Machines, (for which I have applications in England Apr. 5, 1919, Pat. No. 135,112), of which the following is a specification.

The object of this invention is to construct a simple and inexpensive machine for washing clothes and the like in which all the working parts shall be readily accessible, the said machine being of the type in which a clothes holder is carried on a reciprocating plunger.

The accompanying drawings illustrate apparatus embodying this invention.

Figure 1 is a perspective view representing a preferred form of the machine.

Fig. 2 represents the clothes holder and plunger carrying the materials to be washed and detached from the machine.

Fig. 3 represents the same parts as are shown in Fig. 2 detached from the machine, with the addition of a pressure disk.

Fig. 4 represents the machine in use.

Fig. 5 represents a slightly modified form of the machine having a wringer attached thereto.

The reference letter A indicates an iron or other cylindrical tank in which works a plunger rod B, at the lower end of which is secured a cruciform clothes holder G, each of the four arms of which is turned up at g'. The upper end of the plunger B is pivotally attached to a lever F, the fulcrum of which is on a support E attached to the outside of the cylinder. A disk C is movable on the plunger rod B, and is provided with clips H of any known or suitable form adapted to engage either the cross arms of the clothes holder or the upper portions of the clothes placed thereon, this disk C when lowered fitting inside the turned up ends g' of the said arms. A suitable pin P may be passed through a hole Q in the plunger B just above the operative position of the disk C in order to prevent the said disk from rising when in operation. An annular lid D is provided, the central opening of which is large enough to enable it to be passed over the joint between the plunger B and lever F.

The clothes or like materials to be washed are laid in layers on the arms of the holders G, the disk C is then pressed down on top of the said materials and the lever F lifted to lower the said holder and pressure disk into the cylinder. Hot water, which may be mixed with small pieces of soap or like cleansing material, is then poured into the cylinder to a depth sufficient to cover the clothes in their lowest position. By rocking the lever the plunger is caused to rise and fall, the disk acting as a piston causing pressure between the clothes and the water in its down stroke and allowing the water to run through the clothes in its up stroke, whereby the clothes or the like are thoroughly washed, and when after washing the plunger is left in its raised position the water will drain off, so that very little wringing will be required.

The tank may be provided with handles J (Fig. 5) for convenience in moving same, and a mangle or wringer K of any known or suitable type may be attached in known manner to the edge of the tank so that as the clothes are taken from the tank the superfluous water may be pressed out of them and returned to the tank. A draining tap M may be provided to run off the liquid remaining in the tank in the washing operation.

I am aware that it is not new to wash clothes by suspending them on rods having a superposed grid or board and mounted in a vertically reciprocated frame, but my invention is defined in the following claim.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

In a washing machine, the combination of a cylindrical tank, means secured to the said tank for pivotally supporting an operating lever above the said tank, a plunger hinged to said lever, a cruciform support rigidly secured to said plunger, a disk movable on the said plunger and adapted to act as a piston, and clips to connect the said disk to the said cruciform support.

ALEXANDER JOHN FISHER.