Jan. 22, 1929.

1,699,618

A. S. MOSES

WASHING MACHINE

Filed Dec. 1, 1924

Fig. 1.

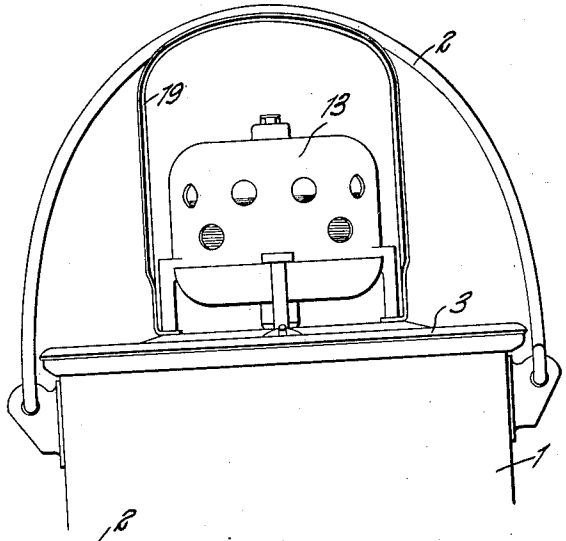
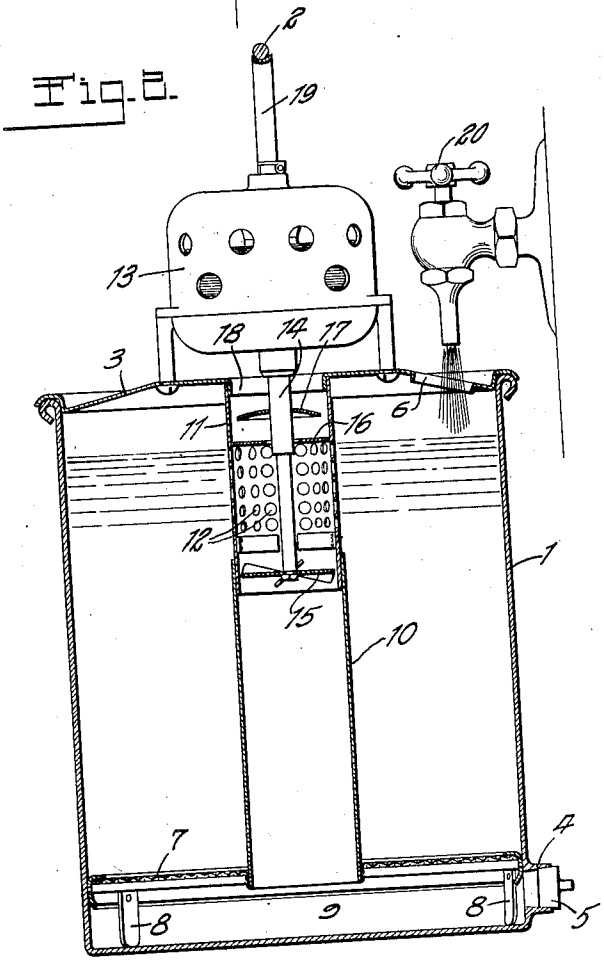


Fig. 2.



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Patented Jan. 22, 1929. 1,699,618

UNITED STATES PATENT OFFICE.

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WASHING MACHINE.

Application filed December 1, 1924. Serial No. 753,394.

This invention pertains to washing machines and more particularly to machines for washing clothes on a small scale, this application being a continuation in part of application Serial No. 693,508, filed February 18, 1924, as to common subject matter.

In many places where it is impossible to provide clothes washing facilities on a large scale as, for instance in hotels, small apartments and the like, it is often desirable to have means for washing a few articles quickly and conveniently and without the disturbance ordinarily accompanying clothes washing operations.

One of the objects of this invention, therefore, is to provide a clothes washing machine by means of which small clothes washing operations may be carried out in a simple and convenient manner.

Another object is to improve the construction of such machines so as to enhance their convenience and simplicity of operation.

Further objects will appear from the following description taken in connection with the accompanying drawing in which:

Figure 1 is a partial view in elevation of a washing machine embodying this invention; and

Figure 2 is a central vertical section of a washing machine embodying this invention and showing the manner of use thereof.

Referring to the accompanying drawing, 1 designates a tub or container for the washing medium. This may be constructed in any suitable manner. A desirable form is constructed of enameled iron ware and may be provided with a bail handle 2.

The tub 1 is provided with a cover 3. The tub 1 may be provided with a drain 4 suitably closed by a plug 5, and the cover 3 may be provided with an inlet opening 6. Loosely mounted in the bottom of the tub 1, is a partition 7 which may be constructed of wire mesh, or other perforated material suitable for the purpose. This partition may be mounted on feet 8 to support the same at a distance above the bottom of the tub so as to provide therebelow a chamber 9. Rising from the partition 7 is a tubular structure comprising vertical tube 10 extending upwardly and terminating somewhat below the level of liquid in the tub 1. The tube 10 may be constructed of sheet metal or other suitable material and may be fixedly mounted on the partition 7 so that the tube and the partition may be lifted together out of the tub 1 when desired.

The cover 3 has mounted thereon so as to extend downwardly therefrom a tube 11 adapted to connect with the tube 10 and perforated as shown at 12 throughout an extended portion thereof so as to permit the washing medium to flow into or out of the tube. Mounted on the cover 3 is a motor 13 or other suitable driving device provided with a shaft 14 extending downwardly into and along the tube 11 and equipped at its lower end, adjacent the lower end of the tube 11, with a propeller or impeller 15. A partition 16 is mounted in the tube 11 but is provided with an enlarged central opening through which the shaft 14 passes. Said shaft 14 may also be equipped with a shield 17 extending partly across the bore of the tube 11. The tube 11 communicates with a central opening 18 in the cover 3 to permit entrance of the shaft 14. The motor 13 and the tube 11 being rigidly mounted on the cover 3 are removable therewith. The cover may be provided with a handle 19 for manipulation. The tube 11 is formed with a slightly less diameter than the tube 10 so as to fit within said tube 10 when the cover is in place on the tub. The tubes 10 and 11 are, therefore, joined together by a slip joint adapted to permit separation thereof when the cover is removed. The handle 19 is rigidly mounted and formed with a concave upper portion into which the bail 2 may be sprung as shown in Figure 2 so as to retain the cover in place.

In the operation of this device the washing medium is first placed in the tub 1 to a level approximately as shown in Figure 2. The partition 7 with the tube 10 is then placed in the bottom of the tub. This centers the tube 10 in the container 1. The clothing to be washed may now be placed around the tube 10 after which the cover 3 is put in place, fitting the tube 11 into the tube 10. Upon starting the motor 13 the impeller 15 will now cause the flow of the washing medium, usually upwardly, through the tubular structure comprising the tubes 10 and 11 and out through the perforations in the tube 11 near the top thereof. The washing medium is thus continually circulated through the clothing so as to thoroughly cleanse the same. Upon completion of the washing operation the plug 5 may be re-

moved and the washing medium drained off. The entire device may then be placed with the inlet opening 6 under a tap 20 from which rinse water is allowed to run into the tub so as to thoroughly rinse the clothes, the said water running out again at the drain 4.

It will be seen, therefore, that in accordance with this invention a washing machine is provided which is simple and convenient to handle. When constructed in small sizes it may be placed in an ordinary bath tub and the entire washing operation carried out in a few minutes. The partition 7 keeps the clothes away from the entrance to the tube 10. The washing medium is circulated in such a manner as to cleanse the clothing and deposit the sediment in the bottom of the tube. The construction is such that upon removal of the cover the tubes 10 and 11 are separated so that it is not necessary to remove the entire batch of clothing along with the cover. By the provision of the inlet opening 6 and the drain 4 the rinsing of the clothes may be carried out simply and quickly in the tub itself.

It is obvious that various changes may be made in details of construction without departing from the spirit of this invention; it is, therefore, to be understood that this invention is not to be limited to the specific details shown and described.

Having thus described the invention what is claimed is:

1. A machine for washing fabrics comprising, a container, a perforated disk spaced from the container bottom, a tube rising from said disk, a cover for said container, a perforated tube extending downwardly from said cover to meet and telescope with said first tube, a propeller in said perforated tube adapted to raise the washing medium up said telescoped tubes, and a motor on said cover connected to drive said propeller.

2. A machine for washing fabrics comprising, a container having a horizontal perforated partition spaced from the bottom thereof and permitting the washing fluid to drain therethrough, a tubular structure rising from said partition and open at its lower end to the space beneath said partition, said partition and tubular structure providing a space thereabove and therearound for the fabrics to be washed, said tubular structure having an opening near its upper end to the space therearound, a propeller mounted for rotation in said tubular structure below the opening therein and above said partition, a removable cover for said container, and a motor mounted on said cover and connected to drive said propeller therebelow, said motor being removable with said cover to permit the fabric to be freely placed around said tubular structure and on said partition, and said propeller operating to raise the washing medium from below said partition and through said tubular structure so as to discharge the same therefrom and on the fabrics therearound.

3. A machine for washing fabrics comprising, a container having a horizontal perforated partition spaced from the bottom thereof and permitting the washing fluid to drain therethrough, a tube rising from said partition and open at its lower end to the space beneath said partition, said partition and tube providing a space thereabove and therearound for the fabrics to be washed, said tube being provided with perforations therearound near its upper end, a propeller mounted for rotation in said tube below said perforations and above said partition, a cover for said container, and a motor connected to drive said propeller, said propeller operating to raise the washing medium from below said partition and through said tube so as to discharge the same therefrom and on the fabrics therearound.

4. A machine for washing fabrics comprising, a container adapted to hold the washing fluid, a tube rising from the container bottom and open thereto at its lower end, a removable cover for said container, a second tube mounted on said cover and arranged to connect with said first tube to form a duct therewith, said duct opening to the container at its upper end, a propeller mounted in said second tube, and a motor on said cover connected to drive said propeller.

5. A machine for washing fabrics comprising, a container adapted to hold the washing fluid, a horizontal perforated partition spaced from the bottom of said container, an open tube rising from said partition and centered thereby in said container, a removable cover for said container, a perforated tube mounted on said cover and arranged to connect with said first tube to form a duct therewith, a propeller mounted in said perforated tube, and a motor on said cover connected to drive said propeller.

In testimony whereof I affix my signature this 10th day of October, 1924.

ASHELEIGH S. MOSES.