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E. J. PERRY

SOAP DOOR FOR WASHING MACHINES

Filed May 14, 1926

Fig. 1.

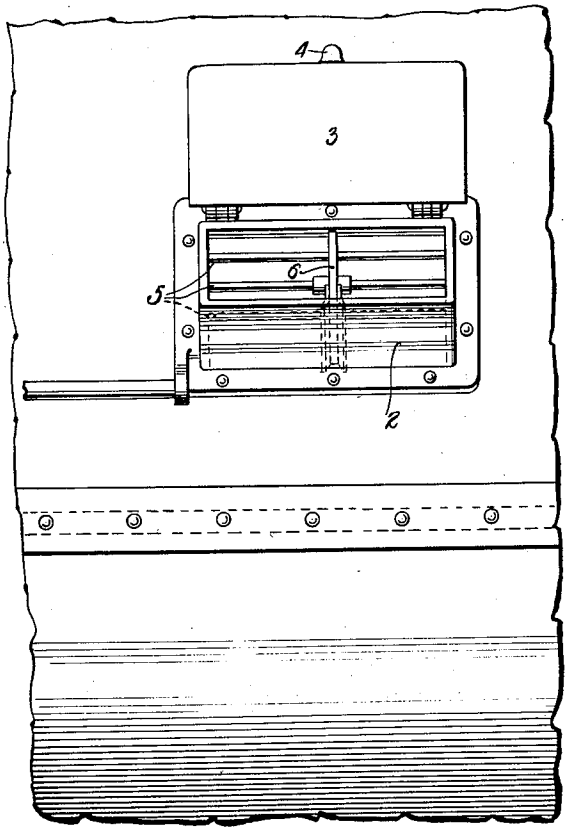


Fig. 2.

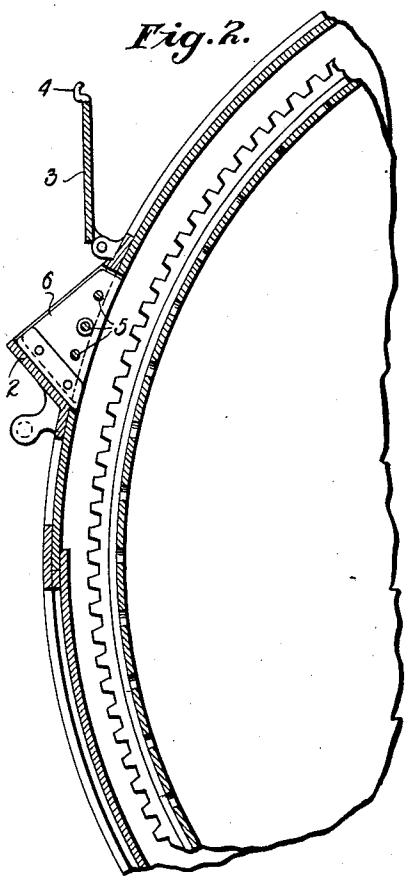
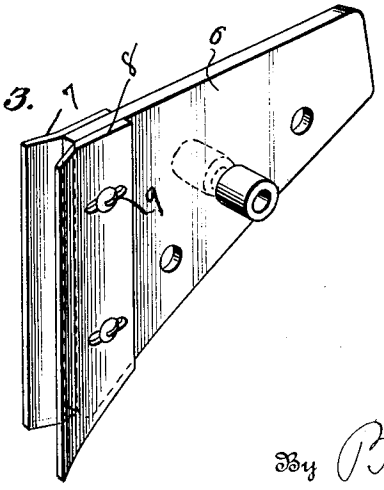


Fig. 3.



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UNITED STATES PATENT OFFICE.

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SOAP DOOR FOR WASHING MACHINES.

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The invention relates to improvements in an attachment for power driven washing machines.

It is an object of the invention to provide a washing machine with an improved form of receiver through which soap and the like may be introduced to the machine during the rotation of the washing cylinder therein.

This invention has particular application to a washing machine of the type in which an inner cylinder continuously rotates within a casing and which cylinder contains the garments or materials being washed.

The primary object of this invention is to provide a soap opening attachment for a machine of this kind in which the soap can be substantially all discharged from the attachment at the proper time, say before bluing is introduced to the washing machine after the clothes have been thoroughly washed.

In the accompanying drawings Figure 1 designates a view of a power driven washing machine, and Figures 2 and 3 are detail views.

This machine has the usual inner cylinder rotated by suitable power means receiving the garments to be washed. It is necessary during the operation of the machine to frequently introduce washing powders, soaps or the like to the water in the machine. This, of course, must be done in such a manner so as to preclude the attendants of the machine from being injured by the washing cylinders.

In this invention the soap or other detergent receiver is represented by the reference character 2. It constitutes a metallic case of substantially triangular cross section. The case receives a hinged closure 3 retained in closed position by a clip 4 engaging one side wall of the closure. This closure may be raised at will for the introduction of washing substances to the machine.

The soap receiver or feeder has a series of spaced bars 5 extending longitudinally thereacross near its inner end. Three of these bars are shown in the illustration of this invention. These bars naturally permit the material introduced through the hinged closure to readily enter the washing cylinder.

It happens, however, in the use of washing machines of this character that particles of soap, washing powders, etc., will accumulate in the soap holder. This is due partly to the constant splash of the water by reason of the rotation of the cylinder. Whatever the reason for the deposit of this soap may be the fact remains that it is decidedly objectionable, and to properly wash materials in a machine of this kind this soap must be removed before the bluing is entered. The bluing should not contact with the soap.

In this invention the soap feeder receives scraper 6. The scraper may be moved back and forth over the spaced rods 5. The scraper is substantially triangular in contour and engages the inner wall of the soap holder. When the scraper is to be operated just before bluing is admitted to the machine the closure is opened and the operator with his fingers slides the scraper back and forth on the rods 5. This positively loosens and ejects any soap collections that adhere to the wall of the soap holder. It is apparent that after such an operation bluing may be admitted to the washing cylinder through the soap holder if this is desirable and that it will not come in contact with any deposits of soap.

The slidable scraper 6 preferably carries at one end a pair of adjustable wipers 7 and 8. Each wiper has an elongated slot therein receiving the retaining screws 9 by means of which these wipers are held in adjusted positions. The wipers may be constructed of resilient or springy metal or any other material suitable for the purpose.

Having thus described my invention, what I claim is:

1. A soap feeding and holding device comprising a casing, a closure therefor, and a scraping device conforming to the contour of the inner wall of the casing for removing soap deposits from said wall.

2. A soap feeding device comprising a casing, a closure therefor, a scraping device conforming to the contour of the inner wall of the casing for removing soap deposits from said wall, and means for supporting said device including longitudinal supporting elements upon which said device is slidably mounted.

3. A soap feeding device for a washing machine having an opening in the wall thereof, a door controlled soap feeding casing

surrounding said opening, and a scraping device conforming to the contour of the wall of said casing normally housed therein for removing soap deposits from said wall.

4. A soap feeding device for a washing machine comprising a casing, the walls of which project beyond the outer surfaces of the washing machine, a movable door for said casing and a soap scraping device disposed within the casing and operable to remove soap deposits therefrom.

In testimony whereof I affix my signature.

EMANUEL J. PERRY.