H. BUDD.

WASHING MACHINE CYLINDER.

APPLICATION FILED DEC. 9, 1911.

1,066,705. Patented July 8, 1913.

Fig. I.

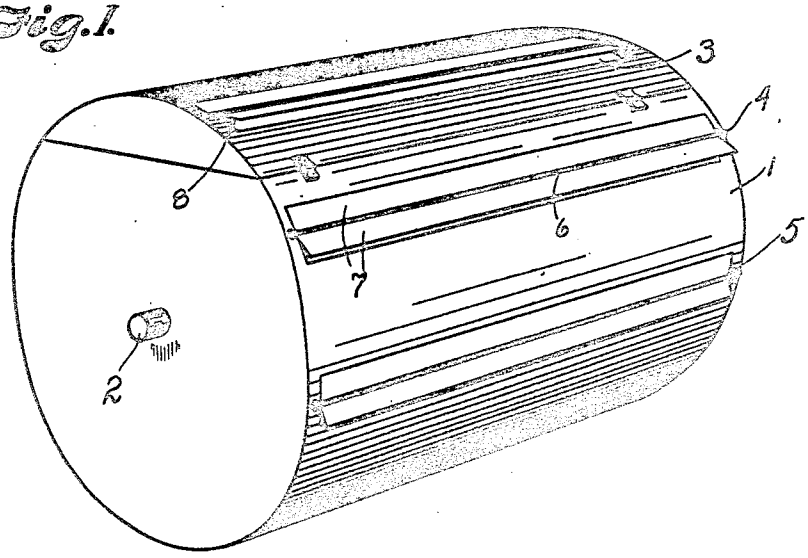


Fig. II.

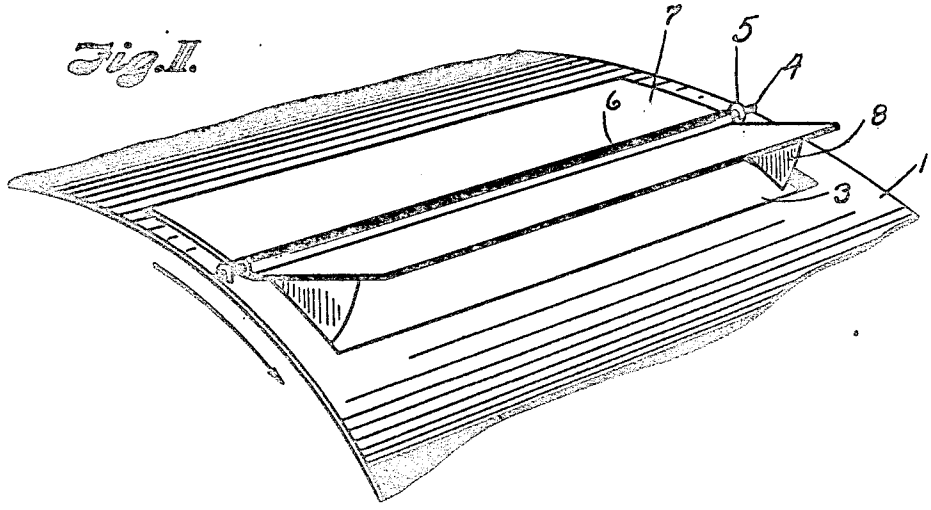
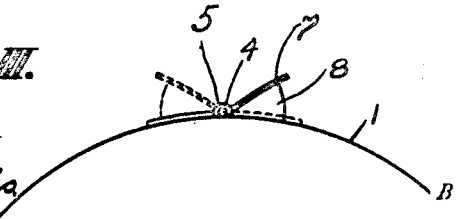


Fig. III.



WITNESSES:

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WASHING-MACHINE CYLINDER.

1,066,705. Specification of Letters Patent. Patented July 8, 1913.

Application filed December 9, 1911. Serial No. 664,784.

To all whom it may concern:

Be it known that I, HARRY BUDD, a citizen of the United States, residing at Independence, in the county of Montgomery and State of Kansas, have invented certain new and useful Improvements in Washing-Machine Cylinders; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to washing machine cylinders and more particularly to an automatically reversible trap for use with reversible cylinders, the object of my invention being to provide a trap of this character having pivotal mounting on the cylinder and provided with opposed hoods adapted for opening the cylinder mouth in the direction in which the cylinder is turning. In accomplishing this object, I have provided the improved details of structure hereinafter described and illustrated in the accompanying drawings, wherein:

Figure I is a perspective view of a washing machine cylinder provided with traps constructed according to my invention. Fig. II is an enlarged detail view of a part of the cylinder and one of the traps. Fig. III is an end view of same.

Referring more in detail to the parts:—1 designates a cylinder adapted for use with any ordinary washing machine and provided with end gudgeons 2, by which the cylinder may be revolubly mounted in the machine. At intervals around the periphery of the cylinder are mouths 3. Extending across the center line of each mouth, and lying over the ends of the cylinder, is a rod 4, which is held in place by staples 5. Mounted on the rod 4 is a hub 6 having side plates 7 of sufficient width to cover the mouth 3, the plates being extended laterally at an angle to each other, so that when one of the plates lies flat against the cylinder and closes the part of the mouth at that side of the central bearing, the opposite plate will be spaced from the cylinder to uncover the part of the mouth at that side.

Fixed to each of the blades 7 are the end wings 8 which extend into the mouth 3 and preferably bear against the material at the ends of the mouth, so that the ends are covered while the face of the trap is open to admit water to the interior of the cylinder through the mouth 3.

In using a cylinder provided with my improvement, presuming the cylinder to be revolving in the direction of the arrow, Fig. II, and the trap being open as illustrated in the several figures, when the cylinder turns so that the mouths enter the water in the bottom of the machine, the open plate 7 will direct the water through the cylinder mouth 3 into the interior, the open plate 7 guiding the water so that it is forced inwardly at an angle and strikes the clothes contained within the cylinder with some force. When the cylinder is reversed the back of the open blade 7 comes in contact with the water and is forced to closed position, the opposite plate being open so that water is taken in through that side of the trap.

Having thus described my invention, what I claim as new therein and desire to secure by Letters-Patent is:—

The combination with a cylinder having longitudinally extending mouths in its periphery, of a closure for each mouth having a central hinge member extending over the open mouth, and outwardly inclined blades extending from opposite sides of the hinge member and each adapted to close its mouth section when its opposite blade is elevated, and wings on the under faces of the blades adapted to travel in said mouths and close the ends of the blades to form hoods thereof, substantially as set forth.

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

HARRY BUDD.

Witnesses:
A. W. SHUTCHES,
A. C. STICH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."