

(Model.)

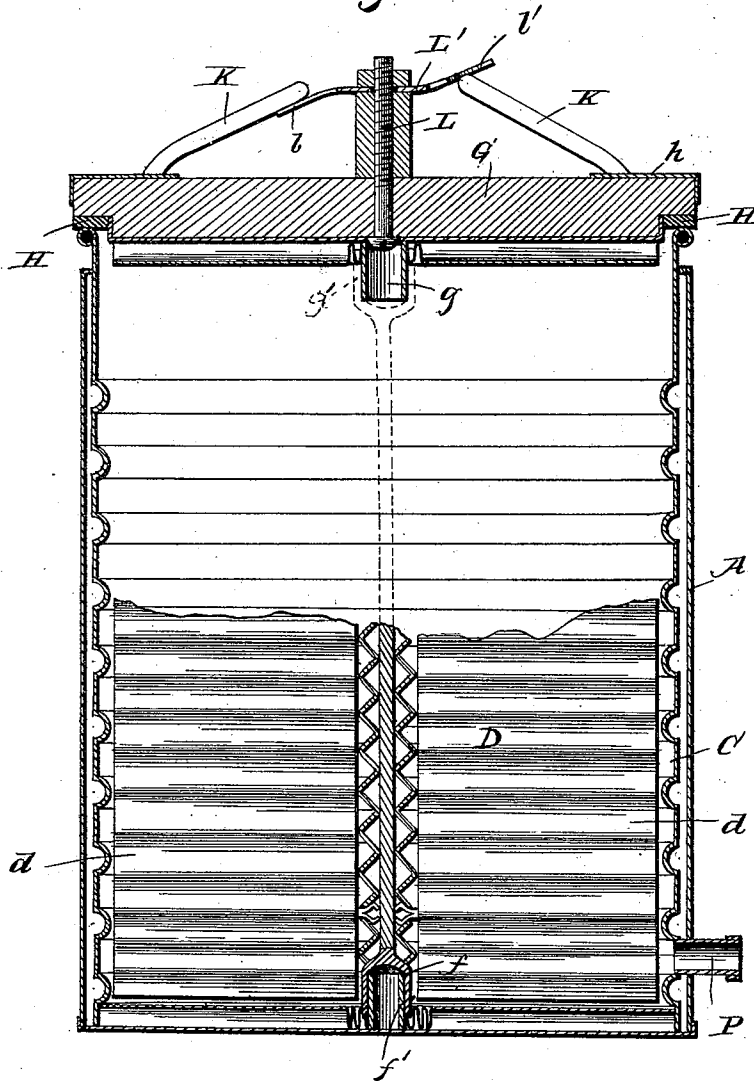
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M. A. JACK.
WASHING MACHINE.

No. 469,146.

Patented Feb. 16, 1892.

Fig. 1.



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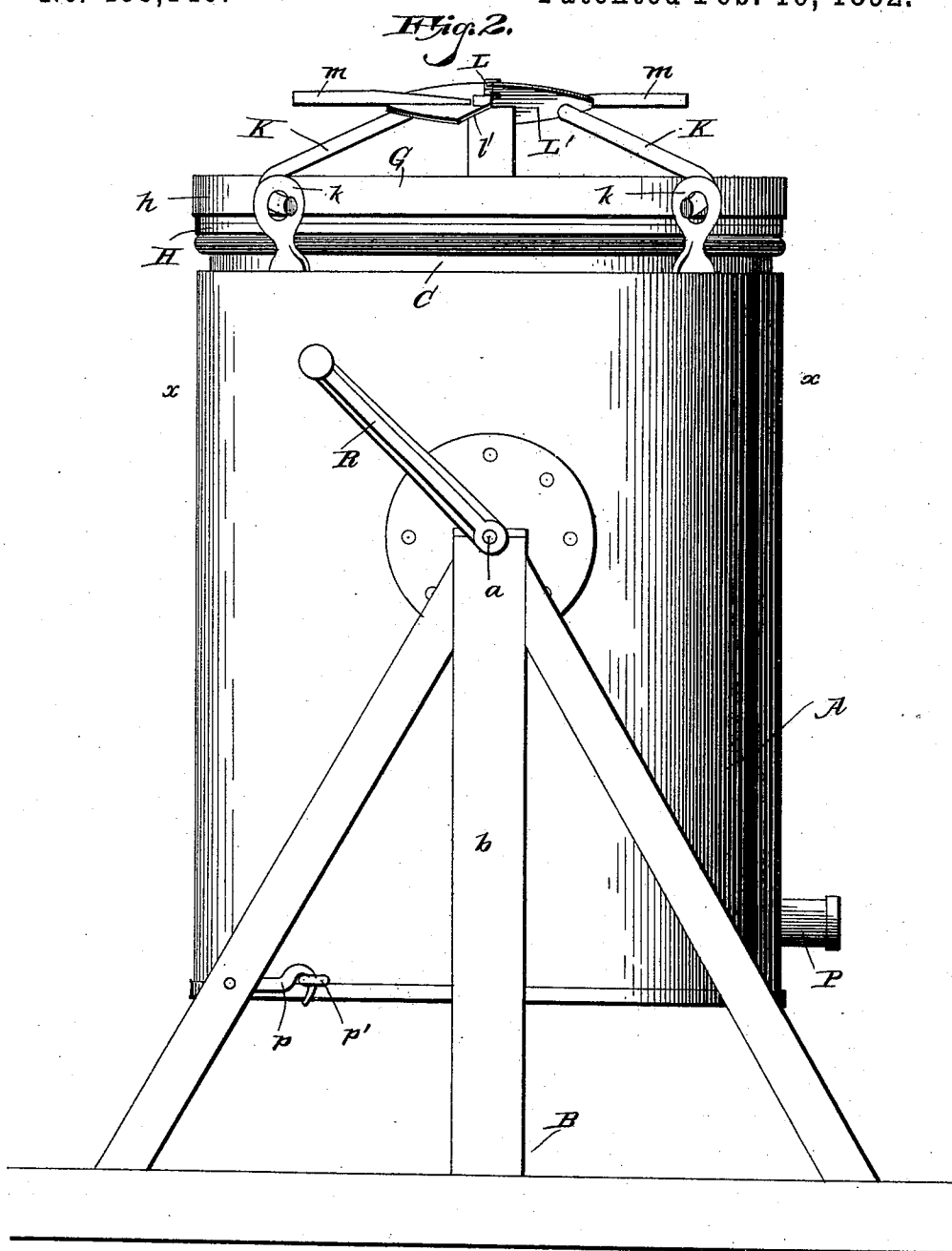
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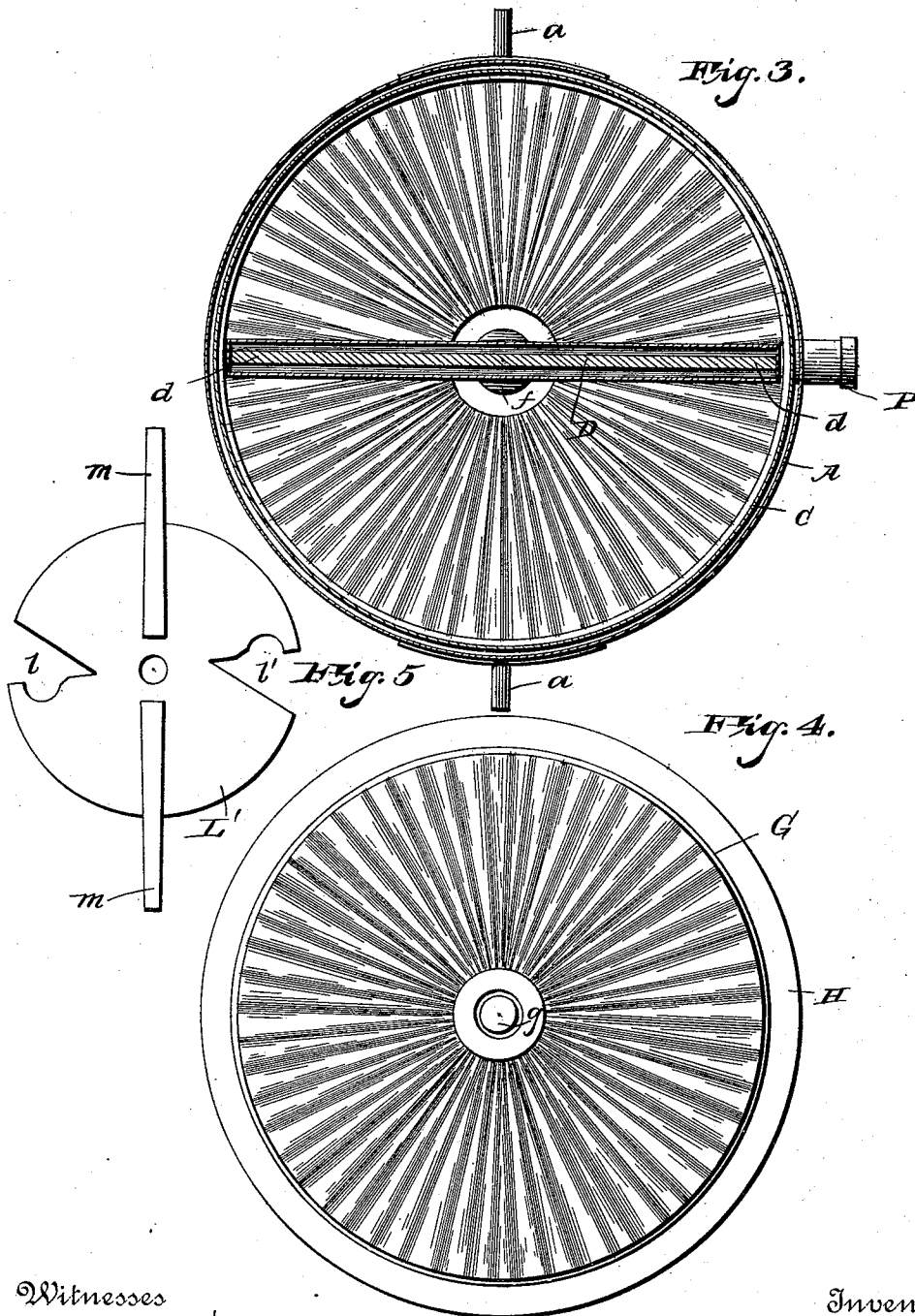
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UNITED STATES PATENT OFFICE.

MARY A. JACK, OF BRACEVILLE, ILLINOIS.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 469,146, dated February 16, 1892.

Application filed May 20, 1891. Serial No. 393,414. (Model.)

To all whom it may concern:

Be it known that I, MARY A. JACK, a citizen of the United States, and a resident of Braceville, in the county of Grundy and State of Illinois, have invented certain new and useful Improvements in Washing-Machines; 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 letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a vertical section. Fig. 2 is a side elevation. Fig. 3 is a horizontal section. Fig. 4 is a bottom plan view of cover, and Fig. 5 is a detail view of cover-fastener.

This invention has relation to certain new and useful improvements in washing-machines; and it consists of the novel construction thereof, as hereinafter set forth.

In the accompanying drawings illustrating the invention, the letter A designates the outer vessel, preferably of cylindrical form, and having at its central longitudinal portion at diametrically-opposite points the axle-studs *a a*, which have bearings in the arms *b* of suitable supports B, between which the vessel is normally supported in vertical position, and between which arms it is also adapted to be rotated.

Inside the outer vessel is the cylindrical barrel C, the inner surface of which, both on the side wall and bottom portion, is corrugated, in the manner shown.

D is the dasher or scrubber, which may have two or four wings *d*, as shown, according to the character of the clothes it is desired to wash. These scrubbing-boards may consist of an inner board having a covering of corrugated zinc on both sides. At the lower end of the scrubber is a sleeve *f*, which engages a stud *f'* in the bottom of the barrel and held in its place.

The barrel projects slightly above the upper edge of the outer vessel or jacket and is provided with a cover G, the under surface of which also has a corrugated metal lining, at the center of which is a stud *g*, which en-

gages a socket or stem *g'* on the scrubber. A suitable annular packing-ring H is provided for the edge of the cover to form a water-tight joint with the barrel. If the cover is formed of wood, a band *h* of metal may be provided to prevent warping.

On the upper edge of the barrel are formed the two pairs of perforated lugs or ears *k k'*, and in each pair are inserted the ends of a bail or wire K.

The top portion of the cover has secured thereto a rod or bolt L, on which loosely turns a circular plate or disk L'. At opposite points this disk is cut or slotted, as shown at *l l'*, the metal forming the opposite edges of the slot being bent oppositely upwardly and downwardly. The disk also has the handle projections *m*. The bails or wire K are bent or curved slightly, so that when they are turned over onto the cover they will bear upon it and hold it securely in place. The disk or plate is then turned until the recesses *l l'* engage the wires, bringing the disks to bear thereon and securely locking them in position.

A hook *p* on the frame is arranged to engage an eye *p'* to hold the vessel or barrel stationary while putting in or removing the clothes. A plug P is also provided to draw off the water. A crank R is connected to one of the axle-studs *a*, by means of which the washer is operated. While revolving the barrel, the clothes therein will continually change their position, the water circulating freely through them and being brought in contact with the corrugated surfaces they will be quickly and thoroughly cleansed.

Having described this invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The washing-machine comprising the rotary vessel or barrel, an inner vessel secured in said barrel, having a continuously-corrugated inner surface, the scrubber comprising the corrugated boards having a bearing at their upper and lower ends, the cover having a corrugated lining, the packing-ring, and the fastening device, substantially as specified.

2. The washing-machine comprising the outer vessel, the barrel secured therein and

having continuously-corrugated inner surfaces, one end of said barrel being removable and provided with a suitable packing, the fastening for said cover, and the scrubber
5 having the corrugated surfaces and provided with bearings at its upper and lower end, in combination with a frame in which said vessel is revolvably supported by means of trun-

nions formed thereon and engaging bearings in said frame, substantially as specified. 10

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

MARY A. JACK.

Witnesses:

E. D. SCOTT,

WM. PHILLIPS.