J. B. JONES.

WASHING-MACHINES.

No. 195,288. Patented Sept. 18, 1877.

Fig. 1.

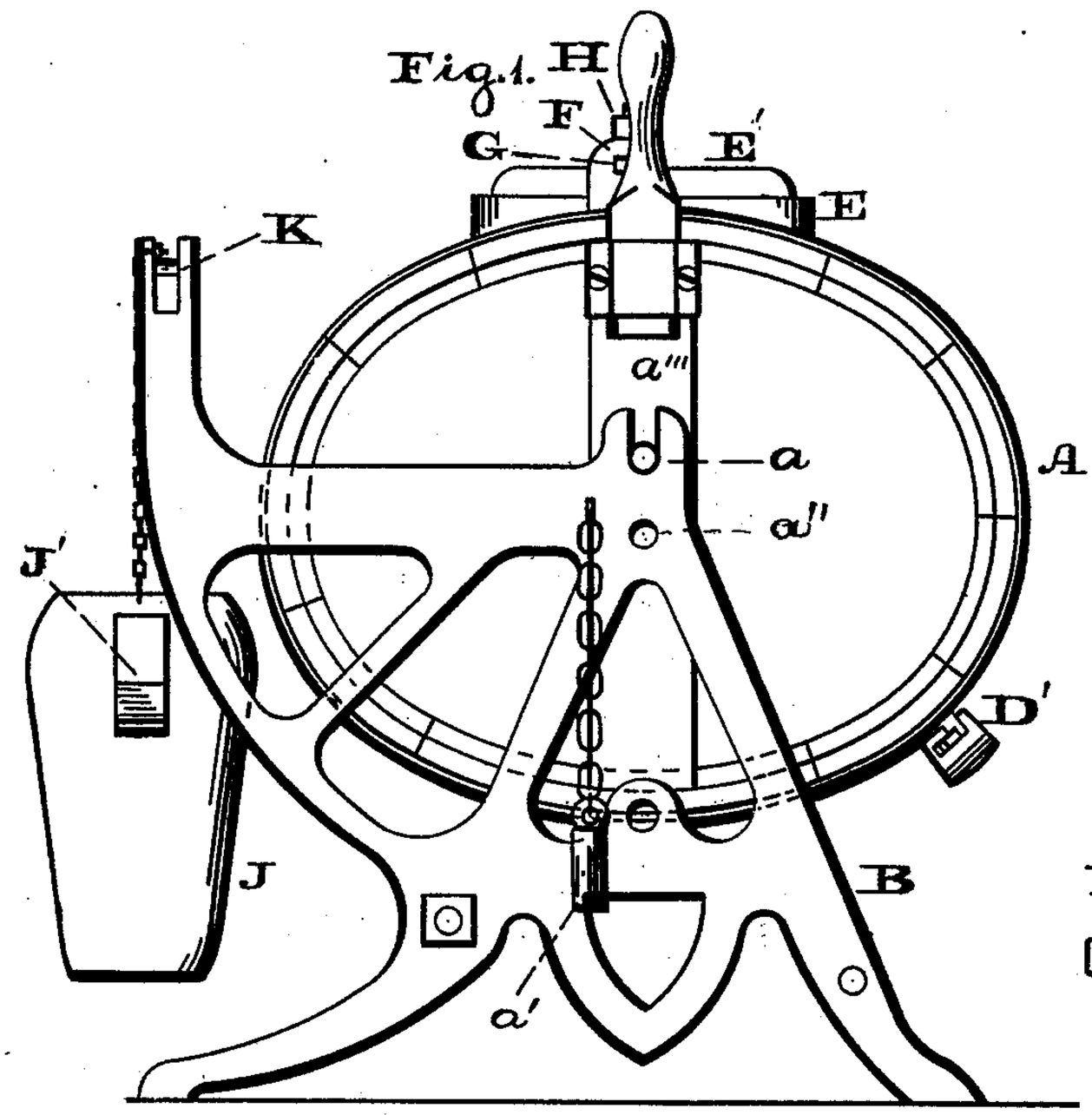


Fig. 3.

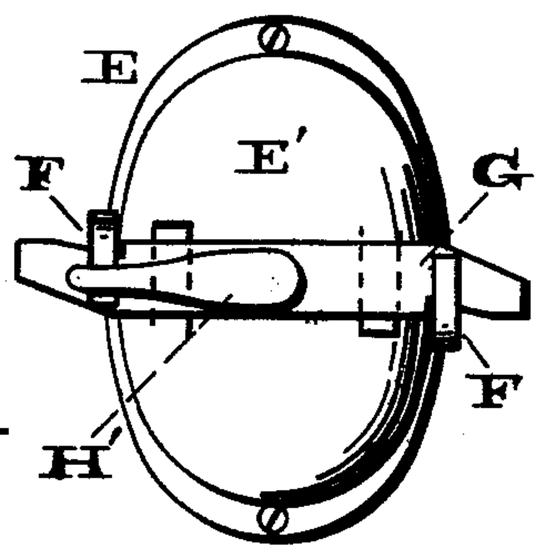


Fig. 2.

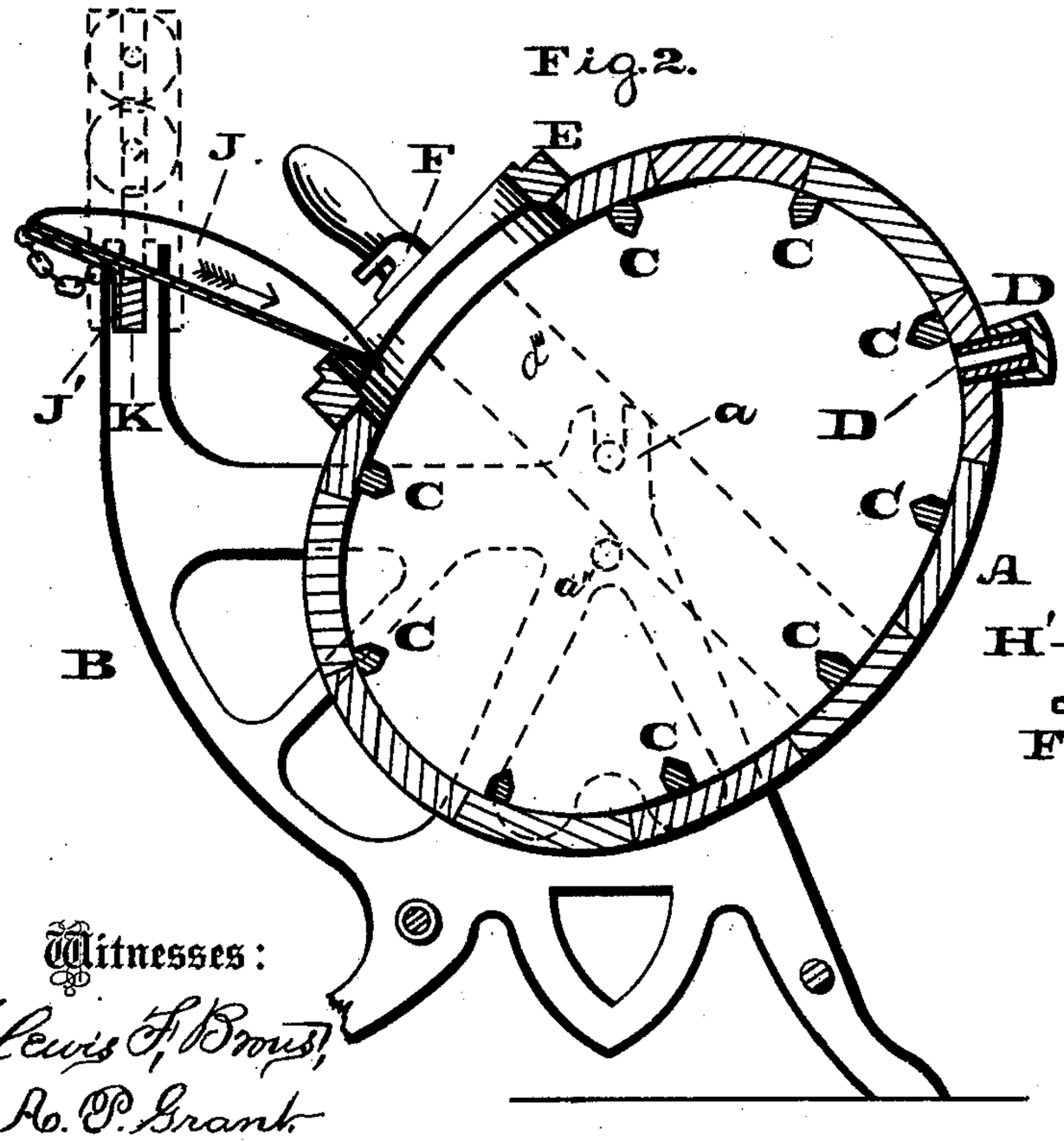


Fig. 4.

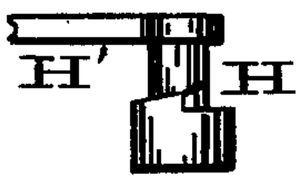
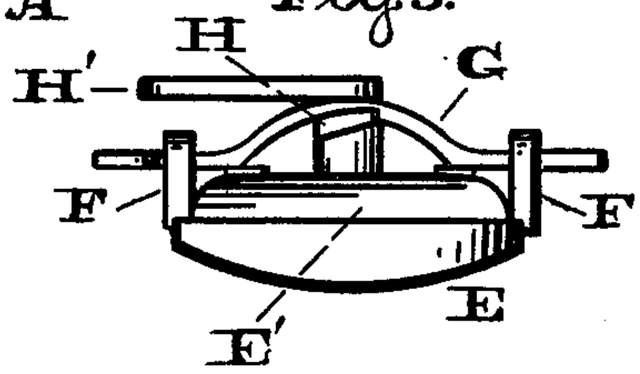


Fig. 5.



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UNITED STATES PATENT OFFICE.

JOSEPH B. JONES, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **195,288,** dated September 18, 1877; application filed May 1, 1877.

To all whom it may concern:

Be it known that I, JOSEPH B. JONES, of the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Washing-Machines, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a side elevation of the washing-machine embodying my invention. Fig. 2 is a vertical section thereof. Fig. 3 is a top view of the cover. Fig. 4 is a side view of a portion thereof. Fig. 5 is a side view of Fig. 3.

Similar letters of reference indicate corresponding parts in the several figures.

My invention consists of a rotary tub in combination with a cover which is secured in position by a cross-bar and cam-head.

It also consists in the combination, with said tub and its supporting-frame, of a detachable spout for directing the drippings from the wringer into the tub, thus preventing slopping on the floor or ground on which the machine is placed.

Referring to the drawings, A represents a tub, which is of elliptical form, and it has journals *a* secured centrally to its sides, said journals being mounted on a stand or support, B. On the inner face of the circumference of the hub there are secured transversely-extending cleats C, which are located thereon at intervals. To the outer face of said circumference there is secured a pipe, D, which leads into the tub, and it is closed by a cap, D′, said pipe being adapted for removing the water and sediment of the tub.

E represents a flange, which is secured to the tub, surrounding the opening through which water, &c., will be introduced, and from the sides of said flange there rise hooked bars F, which are adapted for engagement of a removable cross-bar, G, to whose center is swiveled a head, H, having cam-faces, which are adapted to engage with inclined or cam faces on the under side of said bar G, the head resting on the cover E′, which is fitted on the flange E.

J represents a spout, which may be suspended from the support B; and the under side of the spout has secured to it a foot, J′, which is adapted to rest against a transverse bar, K, at the upper end of the support B, for holding the spout in proper position, for purposes to be explained.

The cover E′ will be opened, the water and clothes or other articles introduced into the tub, and the cover again applied, and locked by the bar G and head H. The tub will now be reciprocated, handles being attached to the tub for convenience of operation.

It will be seen that, owing to the elliptical form of the tub and the inner cleats C, the articles and water will be dashed in various directions, and as the articles strike the cleats they will be subjected to a violent beating action, and consequently thoroughly washed.

It will also be seen that, owing to the cam-faces of the head H, when the latter is turned the cross-bar E and hooked bars F will forcibly press the cover E′ against the seat on the flange E of the tub, the leverage of the head being great, whereby the inlet or entrance opening of the tub will be securely closed, and leakage or escape of water will be prevented.

In order to turn the head, the end thereof journaled to the cross-bar G is extended above said bar, and has connected to it an operating-handle, H′.

By this construction the head and cross-bar will not separate and be liable to misplacement or loss, and when the bar and cover are removed from the tub the opening at the flange E is unobstructed.

When the articles are washed and require wringing, the cover E′ of the tub being removed, the spout J will be rested on the cross-bar K of the base or support B, and against the flange E, the tub being tilted or turned, as in Fig. 2, and held by a pin, *a′*, passed through an opening, *a″*, in the support, and engaging with a bar, *a‴*, on the side of the tub, said opening *a″* being shown dotted in Fig. 2. The foot J′ prevents slipping of the spout toward the tub. The wringer may now be operated, and the water that drops therefrom on both sides falls on the spout, and it is thus directed into the tub, whereby slopping is prevented.

The water and sediment in the tub may be removed by detaching the cap D′, whereby the pipe D is uncovered. By properly turning the tub the water, &c., will flow through

said pipe, and it may be collected or passed off elsewhere.

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

1. The tub A, provided with the fixed flange E, in combination with the hooked side bars F, removable cross-bar G, cover E′, and cam-head H, substantially as and for the purpose set forth.

2. The tub and supporting-frame, in combination with a removable spout, J, provided with a foot, J′, substantially as and for the purpose set forth.

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