

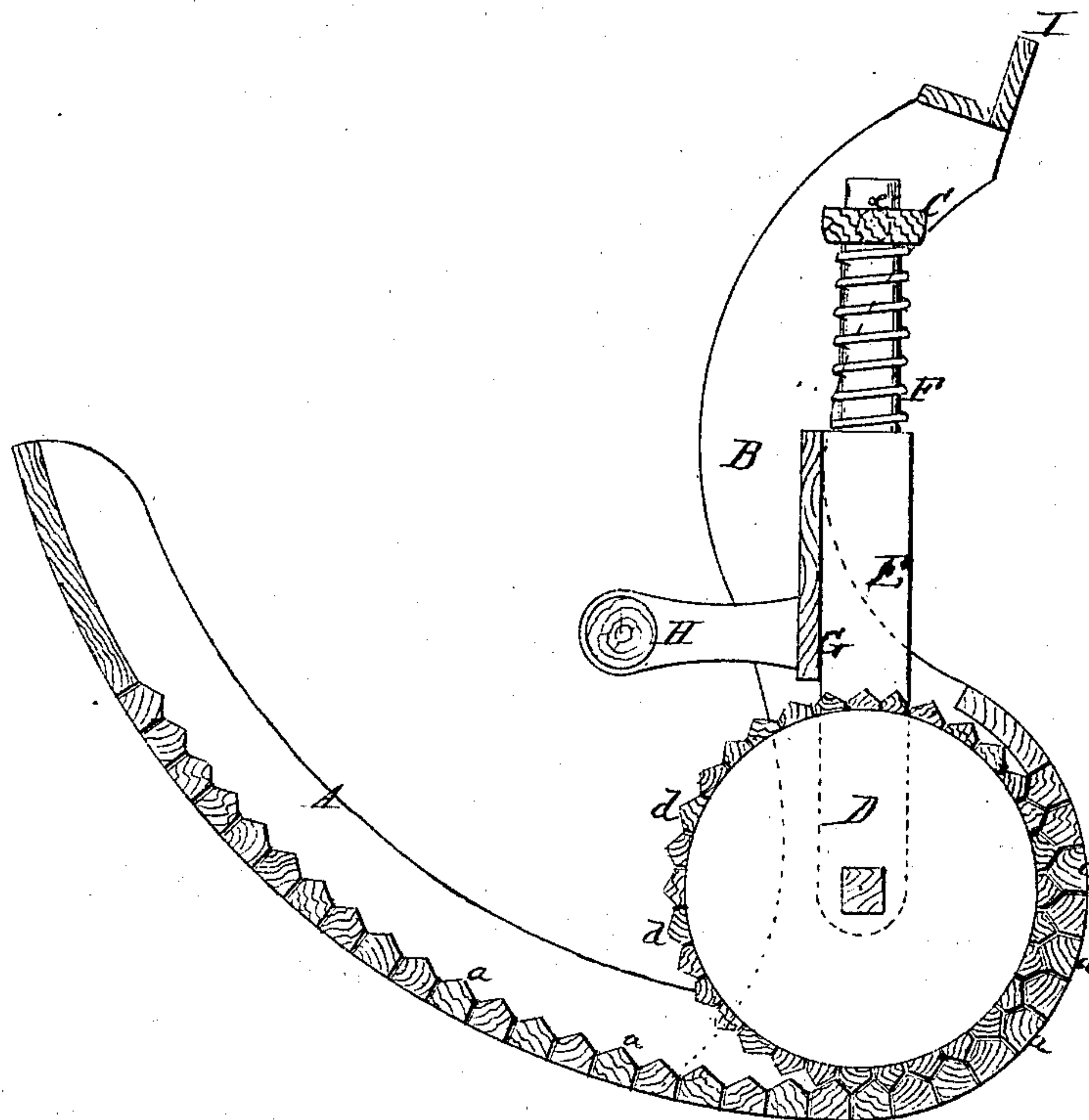
[117.]

J. W. JAMES & J. STREIT.

Improvement in Washing Machines.

No. 118,774.

Patented Sep. 5. 1871.



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UNITED STATES PATENT OFFICE.

JOHN WILLIAMSON JAMES AND JOSIAH STREIT, OF CENTRE TOWN, MISSOURI.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 118,774, dated September 5, 1871.

To all whom it may concern:

Be it known that we, JOHN WILLIAMSON JAMES and JOSIAH STREIT, of Centre Town, in the county of Cole and State of Missouri, have invented a new and valuable Improvement in Washing-Machines; and we do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a vertical longitudinal section of our invention.

This invention has relation to washing-machines; and the novelty consists in the construction and arrangement of the curved suds-box, rotary dasher, and pressure-springs, as hereinafter described.

The accompanying drawing illustrates our improved washing-machine constructed without supports to the suds-box, so as to admit of its being placed in an ordinary wash-tub. When too large to fit the tub the suds-box is provided with suitable legs.

A designates said suds-box, the bottom of which is formed to a quarter-circle curve. The end is curved upward to form a semicircular recess corresponding to the form of the rotary dasher. The curved bottom and semicircular end are composed of transverse ribs *a*, having beveled upper and inner surfaces, and arranged with spaces between them to let water pass through. B represents standards secured to the sides at the semicircular end of the suds-box. The lower back part of said standards are curved to coincide with the end of the box. These standards support between them, near their upper ends, a transverse bar, C, journaled at either end. D indicates a cylindrical dasher or squeezer and rubber, having a hollow interior and armed with transverse ribs *d* corresponding in form with

those of the suds-box, and like them arranged with intervening spaces to let water pass through. This dasher is adapted to rotation on its axis, and for this purpose it is journaled at each end to the arms marked E. The upper portions of said arms are rounded and their ends pass through holes cut in the transverse bar C, where they may be held by means of pins *e*. Around each rounded portion of the arms E is placed a spring, F, either of coiled metal wire, rubber, or their equivalent, or a rubber tube may be placed within the compass of a coiled wire for greater strength and efficiency. Said spring rests between the under side of the bar C and the shoulder formed at the point where the arm E begins to round. The object of the springs is to keep the dasher pressed down, and, at the same time, allow sufficient play to overcome the thicknesses of clothing. G represents a brace secured to the arms E. H designates a handle, also connected to said arms and designed for the purpose of operating the dasher back and forth over the wash-board. The wash-board is made so as to fit closely within the end of the suds-box, so as to squeeze any clothes that may accumulate in the lower part of the box. I represents a soap-stand located at the top of the standard B.

What we claim as our invention, and desire to secure by Letters Patent, is—

A rotary ribbed dasher or squeezer for washing-machine, in combination with a curved ribbed suds-box having a semicircular recess at its end, substantially as and for the purpose specified.

In testimony that we claim the above we have hereunto subscribed our names in the presence of two witnesses.

JOHN WILLIAMSON JAMES.
JOSIAH STREIT.

Witnesses:

JAMES B. DAVIES,
F. G. FULKERSON.