

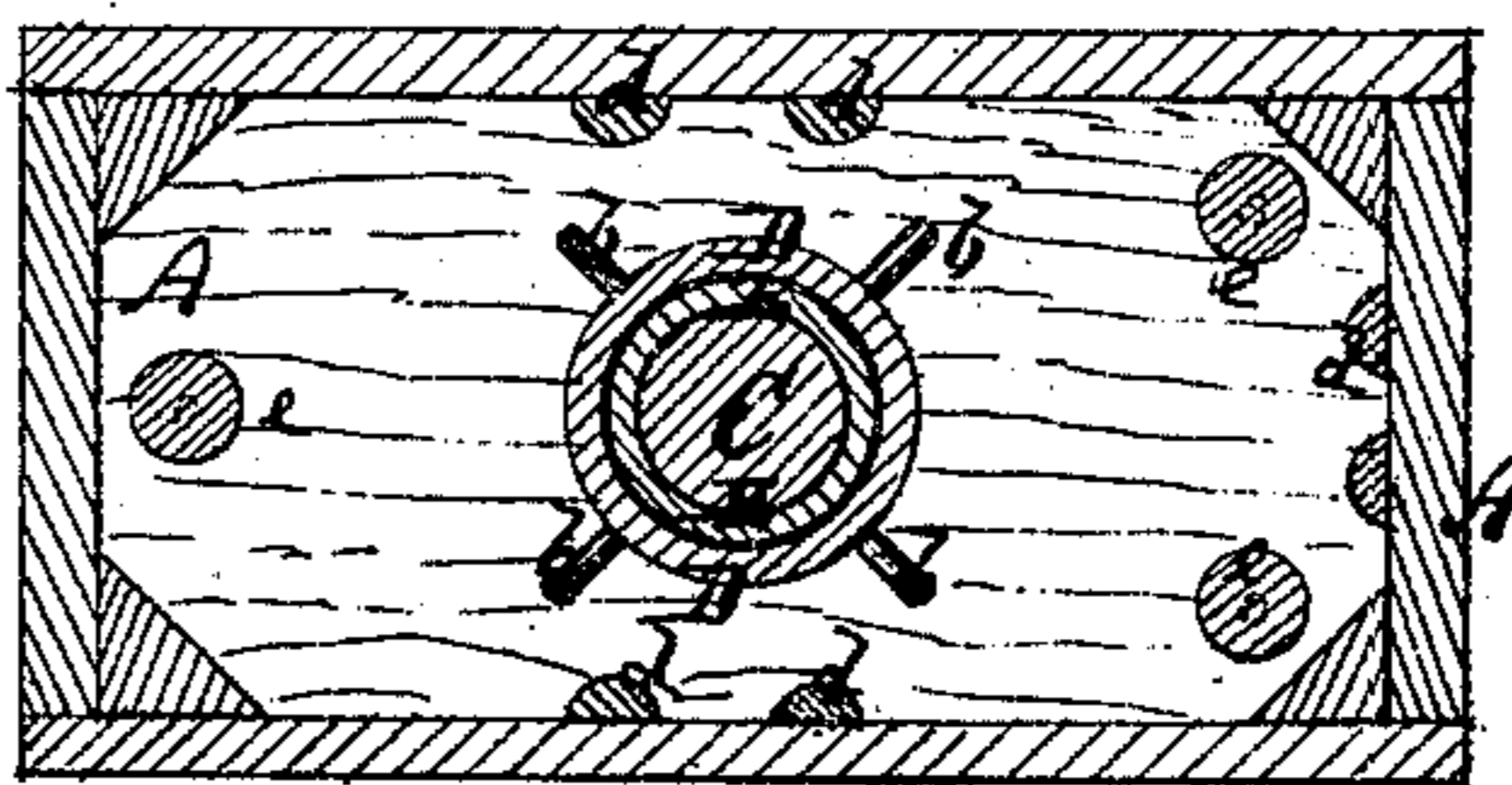
*Washing
Machine.*

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Fig. 1.



Fig. 2.



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UNITED STATES PATENT OFFICE.

LOYAL M. DODDRIDGE, OF UNION CITY, INDIANA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 118,219, dated August 22, 1871.

To all whom it may concern:

Be it known that I, LOYAL M. DODDRIDGE, of Union City, in the county of Randolph and State of Indiana, have invented a new and Improved Washing-Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 represents a vertical transverse section of my improved washing-machine on the line *e k*, Fig. 2. Fig. 2 is a longitudinal vertical section of the same on the line *c c*, Fig. 1. Fig. 3 is a horizontal section of the same on the line *k k*, Fig. 1.

Similar letters of reference indicate corresponding parts.

My invention consists in improving machines for washing clothes, as hereinafter fully described and subsequently pointed out in the claim.

A is an oblong rectangular box, having vertical ribs *d d* centrally placed opposite to each other, and on the inner part of the long sides *e e e* are friction-rollers arranged in an upright position near the short sides. *b b b* are projecting fingers upon the shaft C. This shaft C is made with a conical shank, which is fast in a hollow socket, E, that serves as its journal. D is the bearing in which the journal E moves. The journal E, as will be perceived from Fig. 1, projects up and

beyond the bearing D and receives a fast spur-wheel, *a*, upon it. The circular rack F, arranged on a vibrating-shaft in frame G, may oscillate it, or it may be rotated by any suitable mechanism. The bearing D has an annular horizontal flange on top, which fits into a corresponding rabbet in the cover B.

The operation is as follows: The clothes being placed at either end of the oblong box and the parts C E caused to oscillate or rotate, the fingers *b* will seize upon the clothes and carry them over the ribs *d* from one side to the other, pressing and rubbing them thoroughly. As in the pressure lengthwise of the box the fingers have less purchase and are liable to lose their hold of the clothes, I apply the rolls *e* so as to use rolling friction on the sides most distant from the fingers and sliding friction on the sides that are nearest.

Having thus described all that is necessary to a full understanding of my invention, what I esteem to be new, and desire to protect by Letters Patent, is—

The combination of rotary dasher-shaft C, having arms *b* and stationary wash-boards *d*, with the series of rollers *e*, arranged as and for the purpose specified.

LOYAL M. DODDRIDGE.

Witnesses:

L. D. LAMBERT,
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