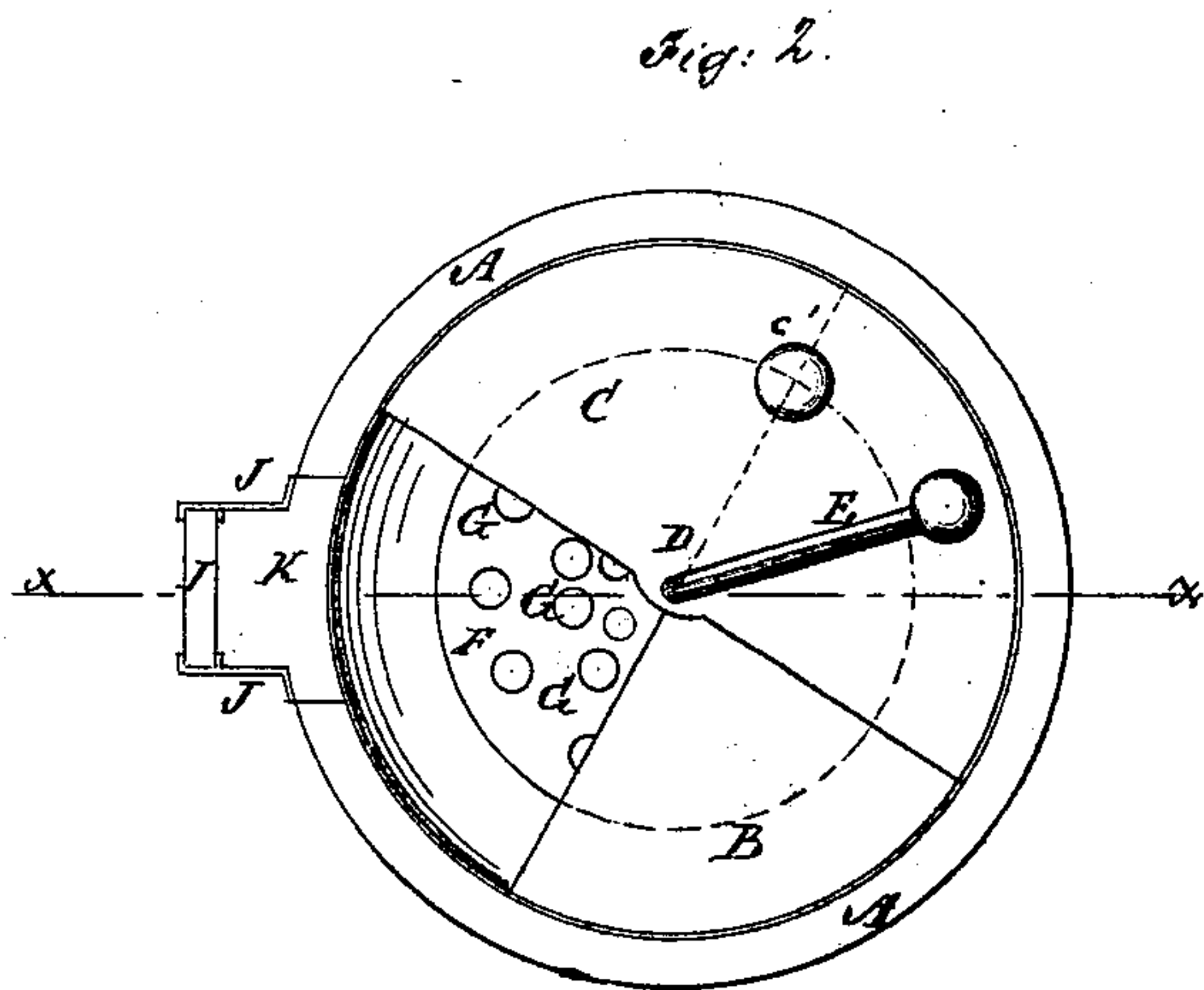
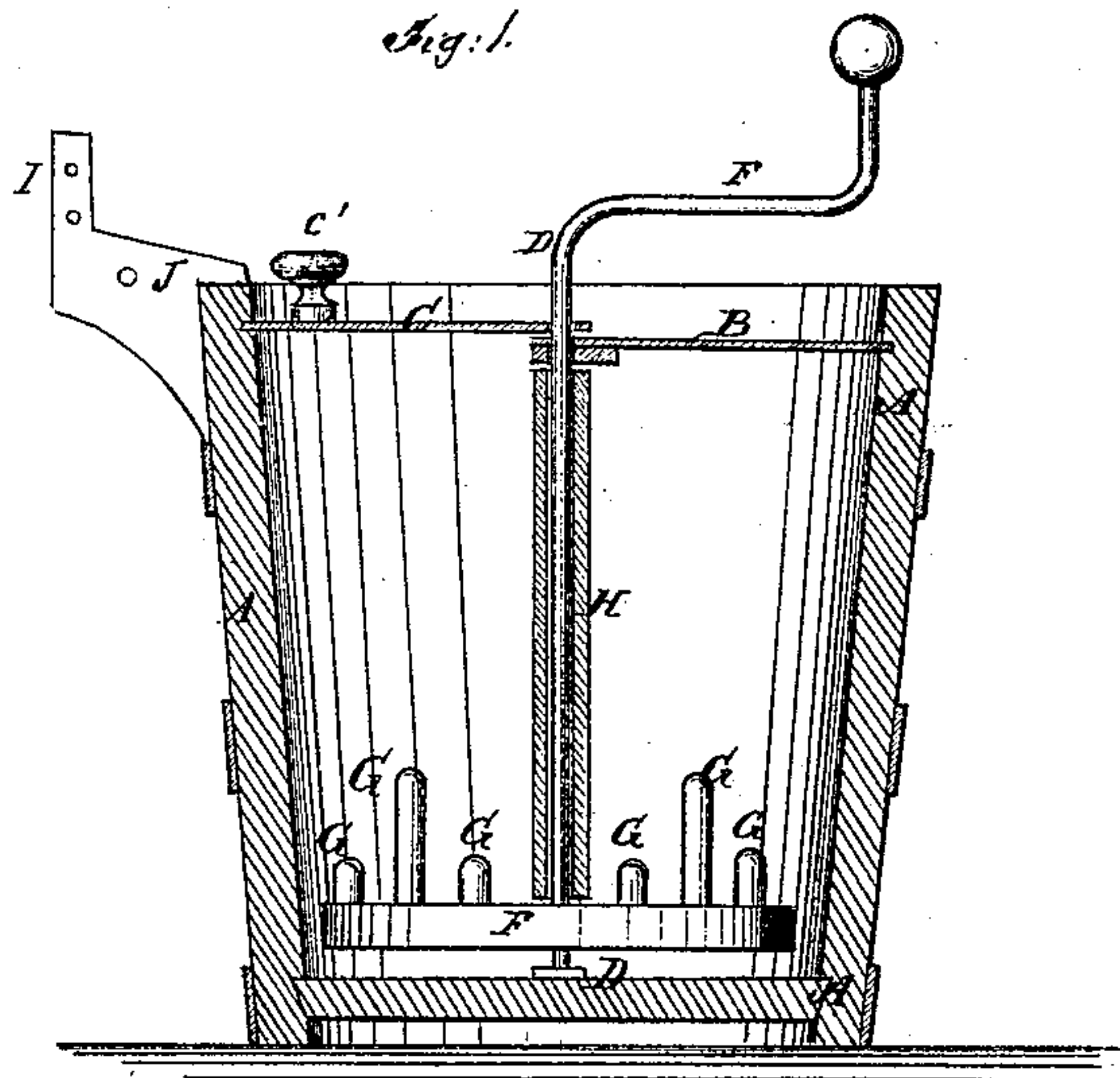


Bean & Logee,

Washing Machine.

No. 102477.

Patented May 3. 1870.



Witnesses:

Chas. Nida.
E. S. Mabey

Inventor:

Chas. Bean
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PER

Munn & Co.
Attorneys.

United States Patent Office.

CHARLES BEAN AND SUEL LOGEE, OF EAST DOUGLAS, MASSACHUSETTS.

Letters Patent No. 102,477, dated May 3, 1870.

IMPROVED WASHING-MACHINE.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that we, CHARLES BEAN and SUEL LOGEE, of East Douglas, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Washing-Machine; and we 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 is a vertical section of our improved machine, taken through the line *x x*, fig. 2; and

Figure 2 is a top view of the same, the top being partly opened.

Similar letters of reference indicate corresponding parts.

Our invention has for its object to furnish an improved washing-machine, which shall be simple in construction and effective in operation, washing the clothes quickly and thoroughly, and without injuring them; and

It consists in the construction and combination of the various parts of the machine, as hereinafter more fully described.

A is the tub, which may be made cylindrical or tapering, as may be desired or convenient.

B C is the cover, which is made in two semicircular parts.

The curved edge of the part B is inserted and secured in a groove in the upper part of the inner surface of the tub A, so that it may serve as a bearing for the upper part of the shaft D.

The curved edge of the movable part C of the cover slides or turns in a groove in the upper part of the inner surface of the tub A, and its straight edge overlaps the straight edge of the part B of said cover.

The shaft D passes through a hole in the part C, so as to serve as a pivot for said part C, so that it may be turned or slid over the part B, to open or uncover the machine.

The part C is moved back and forth by means of a knob or handle, *c'*, attached to it.

The lower end of the shaft D revolves in a step or socket, formed in or attached to the center of the bottom of the tub A, and upon the upper end of the said shaft D is formed, or to it is attached, a crank, E, by means of which the machine is operated.

To the lower part of the shaft D, just above the bottom of the tub A, is attached a disk or circular plate, F, from the upper surface of which projects a number of pins, G, some of which are made longer than the others, and which are designed to support the clothes, so that the water may have a free passage beneath and through them as they are swept through the water by the operation of the machine.

H is a tubular washer, through which the shaft D passes, and which is designed to keep the clothes from being wound upon or torn by the said shaft.

I is a vertical board attached to brackets J, which are attached to the side of the upper part of the tub A, and which is designed to serve as a convenient support for a wringer, it being provided with an inclined apron, K, to conduct the water from the wringer back into the tub A.

Having thus described our invention,

We claim as new and desire to secure by Letters Patent—

An improved washing-machine, formed by the combination of the tub A, semicircular stationary cover B, semicircular movable cover C, shaft D, crank E, circular plate F, pins G, and tubular washer H, with each other, said parts being constructed and operating substantially as herein shown and described, and for the purpose set forth.

CHARLES BEAN.
SUEL LOGEE.

Witnesses:

LYMAN PARSONS,
OLIVE T. PARSONS.