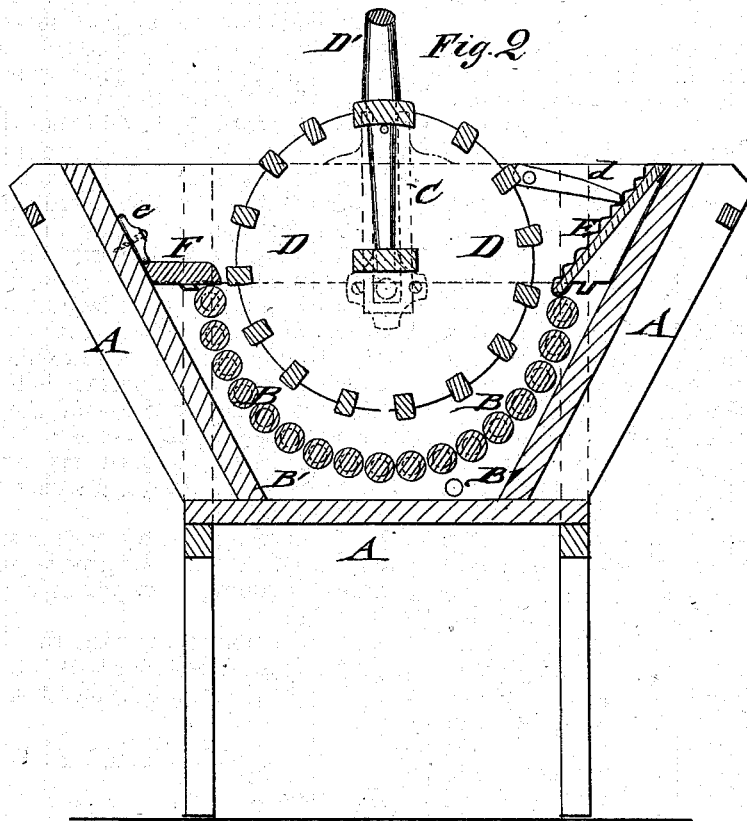
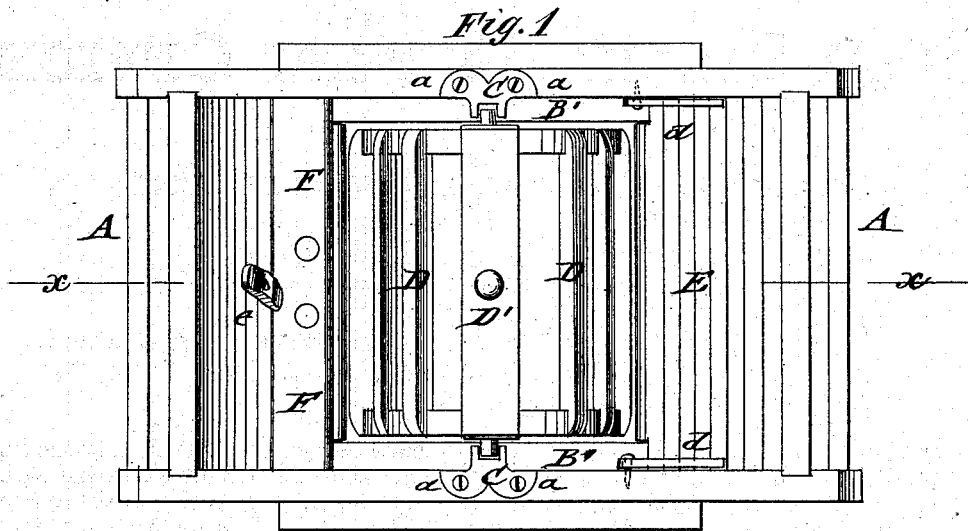


C. K. ROGERS.
 WASHING-MACHINE.

No. 186,499.

Patented Jan. 23, 1877.



WITNESSES:

A. W. Almqvist
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INVENTOR:

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UNITED STATES PATENT OFFICE.

CHARLES K. ROGERS, OF OSWEGO FALLS, NEW YORK.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **186,499**, dated January 23, 1877; application filed December 11, 1876.

To all whom it may concern :

Be it known that I, CHARLES K. ROGERS, of Oswego Falls, in the county of Oswego and State of New York, have invented a new and Improved Washing-Machine, of which the following is a specification :

In the accompanying drawing, Figure 1 represents a top view, and Fig. 2 a vertical longitudinal section, of my improved washing-machine.

Similar letters of reference indicate corresponding parts.

The invention will first be described in connection with the drawing, and then pointed out in the claims.

In the drawing, A represents the tub of my improved machine, made of oblong shape, and tapering from the larger top to the smaller bottom part. In the lower half of the tub are arranged, in semicircular or arc shape, a series of rollers, B, that are supported in stay-boards fitted to the sides of the tub. The stay-boards and rollers are rigidly retained at the inside of the tub by grooved metallic side standards C, which are let into socket-recesses of the stay-boards, and secured by top flanges *a* and fastening-screws to the upper part of the tub. By loosening the fasteningscrews the stay-boards, rollers, and standards may be readily taken out from the tub for the purpose of cleaning or repairing the tub or replacing any one of the rollers. A rubbing-cylinder, D, with pivot-pins, placed a short distance below the center, swings in the grooved standards, so as to adjust itself readily to the quantity and size of clothes placed on the rollers. The eccentric pivot-pins produce a larger space between cylinder and roll-

ers vertically below the pivots than at the end rollers, so as that the cylinder exerts a greater pressure at the end rollers than at the central rollers. The cylinder D is made of solid sides, with lateral rubber slats secured to the same. A handle, D', at the top part, serves to swing the cylinder from one end to the other of the machine, producing the quick washing of the clothes when placed with the suds in the tub.

For the purpose of washing out streaky and heavily-soiled parts, as wristbands, &c., a wash-board, E, is secured by means of tongues into grooves of the stay-boards, and locked by pivot-braces *d*, to be readily removed when not required. At the opposite side of the machine is secured, by tongues and grooves and a pivoted stop, *e*, a horizontal supporting-board, F, for the wringer, so that all the implements required for washing are placed within convenient reach. A bottom hole and plug of the tub serves to draw off the suds after the clothes have been washed.

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

1. The combination of wash-board E, with stay-boards and tub, by groove and tongue joint and retaining pivot-braces, substantially as specified.

2. The combination, with tub A, having pivot stop *e* and stay-boards B', of a horizontal wringer-support, F, substantially as set forth.

CHARLES K. ROGERS.

Witnesses :

E. S. PARDEES,
G. S. PIPER.