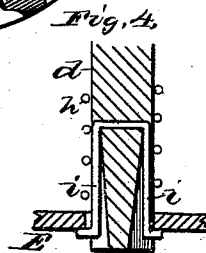
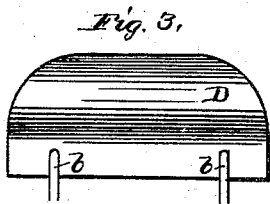
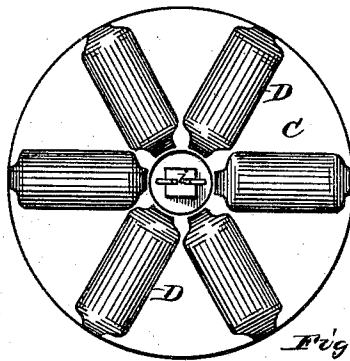
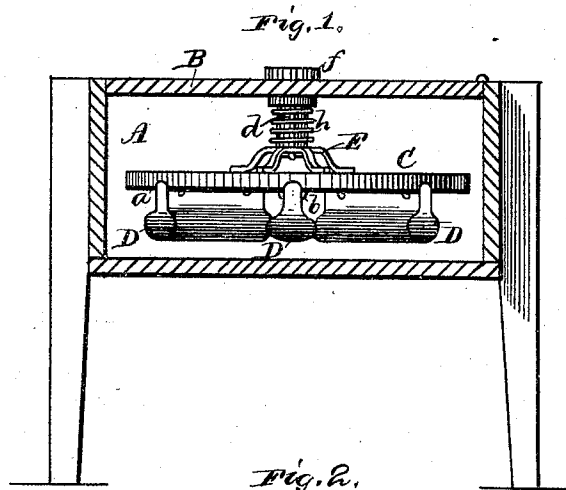


S. J. TAYLOR.
 WASHING-MACHINE.

No. 182,041.

Patented Sept. 12, 1876.



WITNESSES:

Jas. F. Duhamel,
 Thomas. Byrne.

INVENTOR:

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PER

H. A. Abbot.
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UNITED STATES PATENT OFFICE

SYLVESTER J. TAYLOR, OF ROME, NEW YORK.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **182,041**, dated September 12, 1876; application filed March 29, 1876.

To all whom it may concern:

Be it known that I, S. J. TAYLOR, of Rome, in the county of Oneida and State of New York, have invented certain new and useful Improvements in Washing-Machines, of which the following is a specification:

My invention relates to that class of washing-machines in which a rotary reciprocating rub-board is used; and it consists in the rubbers and their attachment to the rub-board, and in the devices for attaching the rub-board to the center shaft, all as hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which forms a part of this specification, and in which—

Figure 1 is a longitudinal section of my invention. Fig. 2 is a view showing the circular rub-board, with rubbers attached thereto. Fig. 3 is a side view of one of the rubbers. Fig. 4 is a section of the square shaft *d*, showing the spring-catches *i i*.

A represents the wash-box, of any suitable dimensions, and provided with a hinged lid, B. C is the circular rub-board, provided on its under side with a series of radial grooves, *a*, in each of which is placed a rubber, D. This rubber is made somewhat in the form of an inverted T in its transverse section, the under surface of the head being convex. The center arm of the rubber is also made convex on its edge, placed in the groove *a*, and held therein by staples *b b*, as shown, which staples allow the rubber to turn or roll from side to side.

In operation it will be noticed the rubbers combine the two motions of washing—name-

ly, rolling and rubbing. As the rub-board passes backward and forward over the clothes, the rubbers roll back and forth on their own centers, and after rolling a certain distance in either direction they become rigid and act as rigid rubbers.

In the center of the rub-board is an aperture, over which is a spider, E, secured on the upper side of the rub-board. In this spider is a square hole to fit over the lower square end of a short shaft, *d*, which passes up through the lid B, and has a pinion, *f*, on its upper end. The spider E is held on the shaft *d* by means of spring-catches *i i* sunk into grooves or slots in the shaft, and above the spider there is a spiral spring, *h*, surrounding the shaft, to hold the rubbers down onto the clothes with a certain degree of force. By compressing the spring-catches *i* the rub-board can be easily taken off from the shaft when required.

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

1. The combination of the radially-grooved rub-board C, the rubbers D placed in said grooves, and the staples *b* holding them therein, all constructed substantially as and for the purposes herein set forth.

2. The combination of the rub-board C, spider E, square shaft *d*, spring *h*, and spring-catches *i i*, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

SYLVESTER J. TAYLOR.

Witnesses:

H. S. SHELLEY,
JOSEPH PORTER.