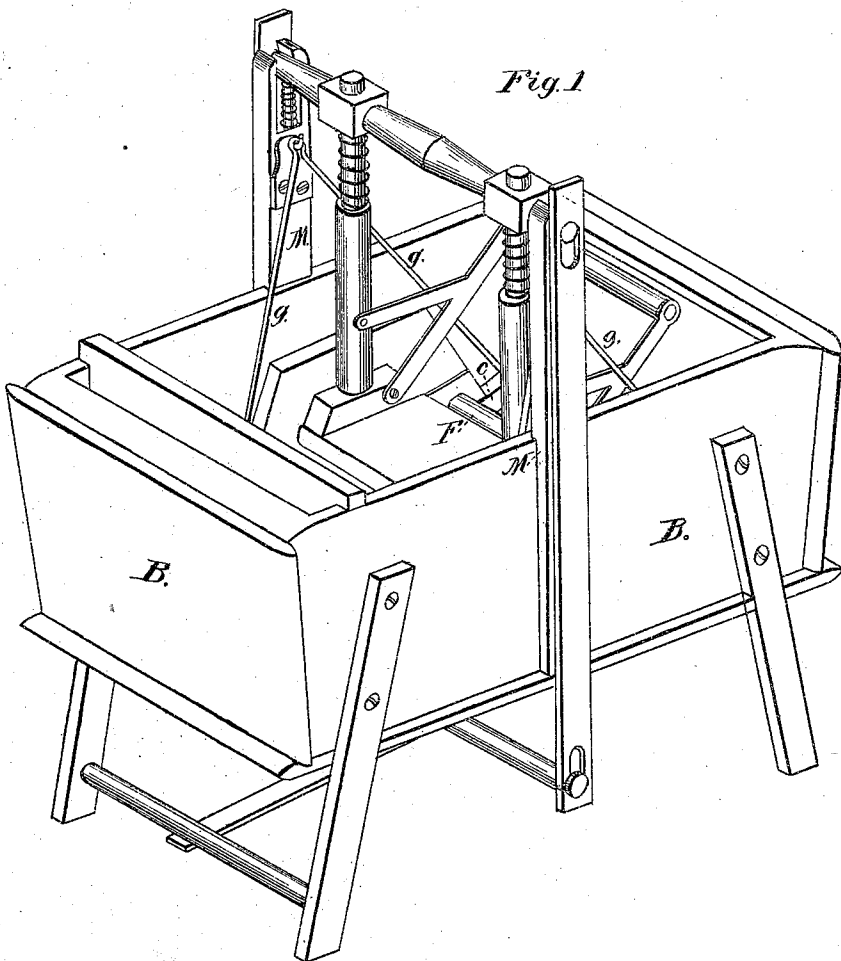


2 Sheets--Sheet 1.

N. J. PARSONS.
Washing-Machines.

No. 143,779.

Patented Oct. 21, 1873.



Witnesses;
Hiram Crandall.
J. B. Baynton

Inventor.

V. J. Parson.

2 Sheets--Sheet 2.

N. J. PARSONS.
Washing-Machines.

No. 143,779.

Patented Oct. 21, 1873.

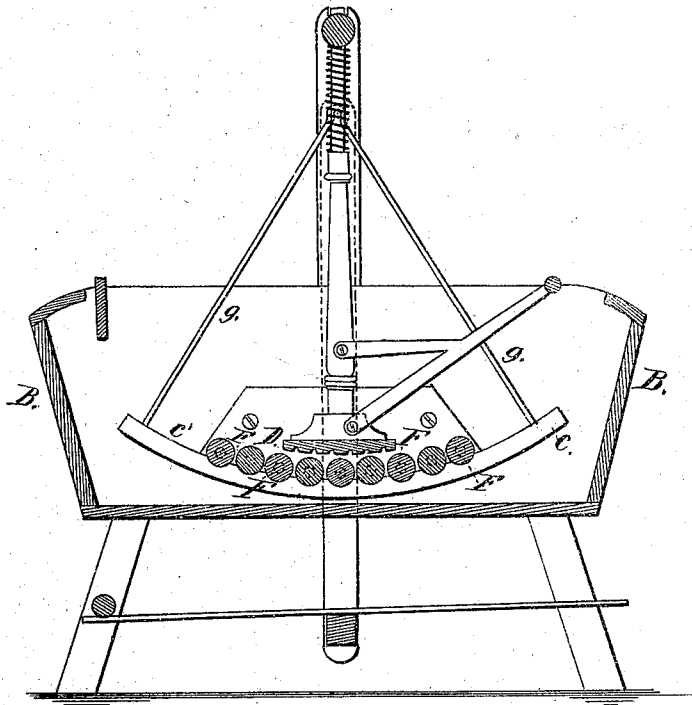


Fig. 2.

Witnesses:

Hiram Cudde
Fitz Boynton

Inventor:

N. J. Parsons

UNITED STATES PATENT OFFICE.

NOAH J. PARSONS, OF CORTLAND, NEW YORK.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **143,779**, dated October 21, 1873; application filed June 25, 1873.

To all whom it may concern:

Be it known that I, NOAH J. PARSONS, of Cortland, in the county of Cortland and State of New York, have invented an Improvement in Washing-Machines, of which the following is a specification:

This invention relates to that class of washing-machines having a concave bed of rollers in the suds-box, upon which the articles to be washed are rubbed or rolled in the process of washing by a rubber suspended over such bed; and consists in so arranging the rollers that their journals rest upon movable segmental bars suspended from a point above the box, and which are free to swing lengthwise of the box, the rollers being held in position by a stationary cap over the upper portion of their journals.

Figure 1 of the accompanying drawings is a perspective view of the machine. Fig. 2 is a horizontal and sectional view.

B is the box, upon the outer sides of which are attached strong upright supports M M. Metallic bars *c c*, segments of a circle, are suspended, by the rods *g g*, from a hook or pivot on the supports M M, at a point above the box, and free to swing backward and forward in the plane of their circle and along the sides of the box. F F are the rollers, forming the usual concave bed. The journals of the roll-

ers rest upon the segmental bars *c c*, and roll upon them. D D are metallic plates attached to the sides of the box. The lower edges of these are curved to nearly the same circle as the segmental bars, and are also so cut out on the lower edge as to fit down upon and cap the journals of the rollers, and so make the upper portion of a journal-box for each roller. The rollers and the bed formed by them are thus kept in position.

In operation, each roller, as it is revolved, having its chief bearing upon the bars, tends to move them in an opposite direction, and as these bars move they revolve all the rollers in one direction, and with one and the same velocity, and the friction and wear of the roller-journals are greatly lessened, and clothing is less worn in the process of washing.

I claim—

The combination of the movable segmental bars *c c*, plates D D, and rollers F F, substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

N. J. PARSONS.

Witnesses:

HIRAM CRANDALL,
FITZ BOYNTON.