A. C. LANGWORTHY.

Improvement in Washing-Machines.

No. 128,892. Patented July 9, 1872.

Fig. 1

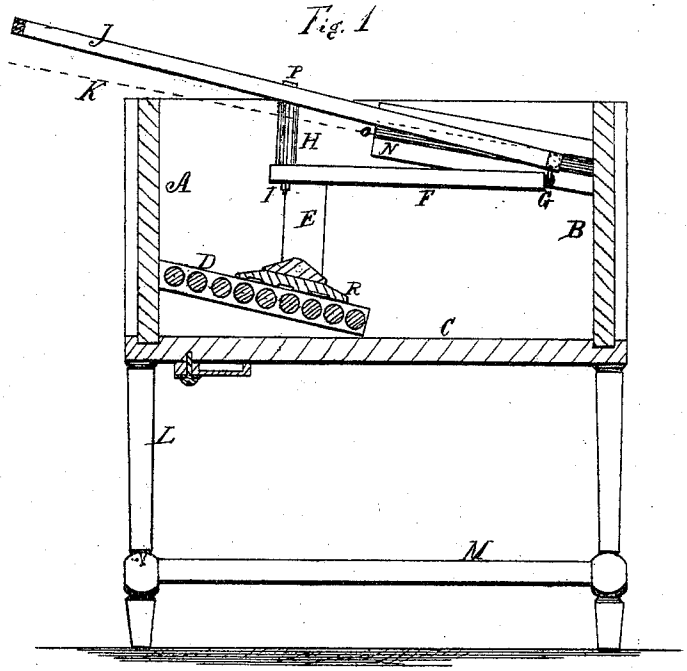
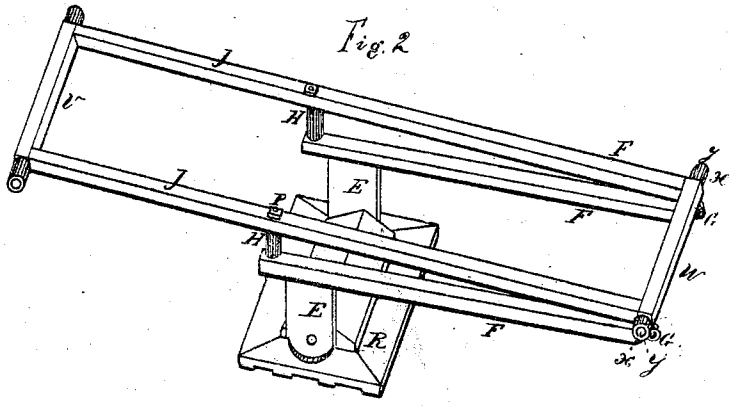


Fig. 2



Witnesses

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UNITED STATES PATENT OFFICE.

ALBERT C. LANGWORTHY, OF EVANSTON, ILLINOIS.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 128,892, dated July 9, 1872.

SPECIFICATION.

I, ALBERT C. LANGWORTHY, of Evanston, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Washing-Machines, of which the following is a specification:

The present invention relates to an improvement in that class of washing-machines in which upper corrugated rubbers are made to have a reciprocating motion over rollers in the bottom of a suitable washing-box; and its nature consists in combining the shanks or standards of the upper rubber or washer with a two-part hinged-frame, which is provided with friction-rollers running in grooves formed in guide-pieces attached to the inside of the washing-box, the said two-part frame being held a suitable distance apart by means of rubber springs, which are provided with vertical holes, through which bolts pass to combine the two parts so that they may spring to or from each other and yet have no lateral motion, as the whole is hereinafter fully described and shown.

In the drawing, Fig. 1 is a longitudinal sectional elevation of my improved washing-machine; Fig. 2, an isometrical view of the upper washer and its improved attachments, removed from the washing-box to give a clear view of its construction.

A B C represent an ordinary rectangular washing-box mounted on legs L, supported by ties M in the usual manner. Nothing, however, is claimed to be new in regard to the box. The upper washer is shown at R, and the lower rollers or washers at D, the latter being inclined as a matter of convenience. E E represent the standards, which connect the washer R to the lower parts F of the two-part frame in a rigid manner by being mortised in or fastened by screws or bolts. The lower parts F are jointed or hinged to the upper parts J J at G G; and placed between the parts J and F are rubber springs H H, the function of which is to relieve the hands from the rigidity which exists when no springs are used, and also to bring a yielding force down upon the clothes between the two washers. To hold the rubbers H in place holes are made vertically through them to receive bolts P, which also pass through the upper and lower parts J F, and fasten by means of nuts I, Fig. 1. The journals *x*, at the end of the two-part frame, are provided with friction-rollers *y y*, which run in grooves O in the side pieces N when the washer is moved back and forth over the rollers D.

In practice the above-described means are found to operate more nearly like hand-rubbing than other spring attachments now in use, while at the same time there are no parts likely to get out of order.

I claim, and desire to secure by Letters Patent of the United States—

1. The two-part frame F J pivoted together at G G, provided with the rubber springs, or their equivalents, and arranged to operate the washer E R, as and for the purpose set forth.

2. The combination of the two-part frame F J with its attachments, constructed as described, and combined with the box A B C and guides O N, as set forth.

ALBERT C. LANGWORTHY.

Witnesses:

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