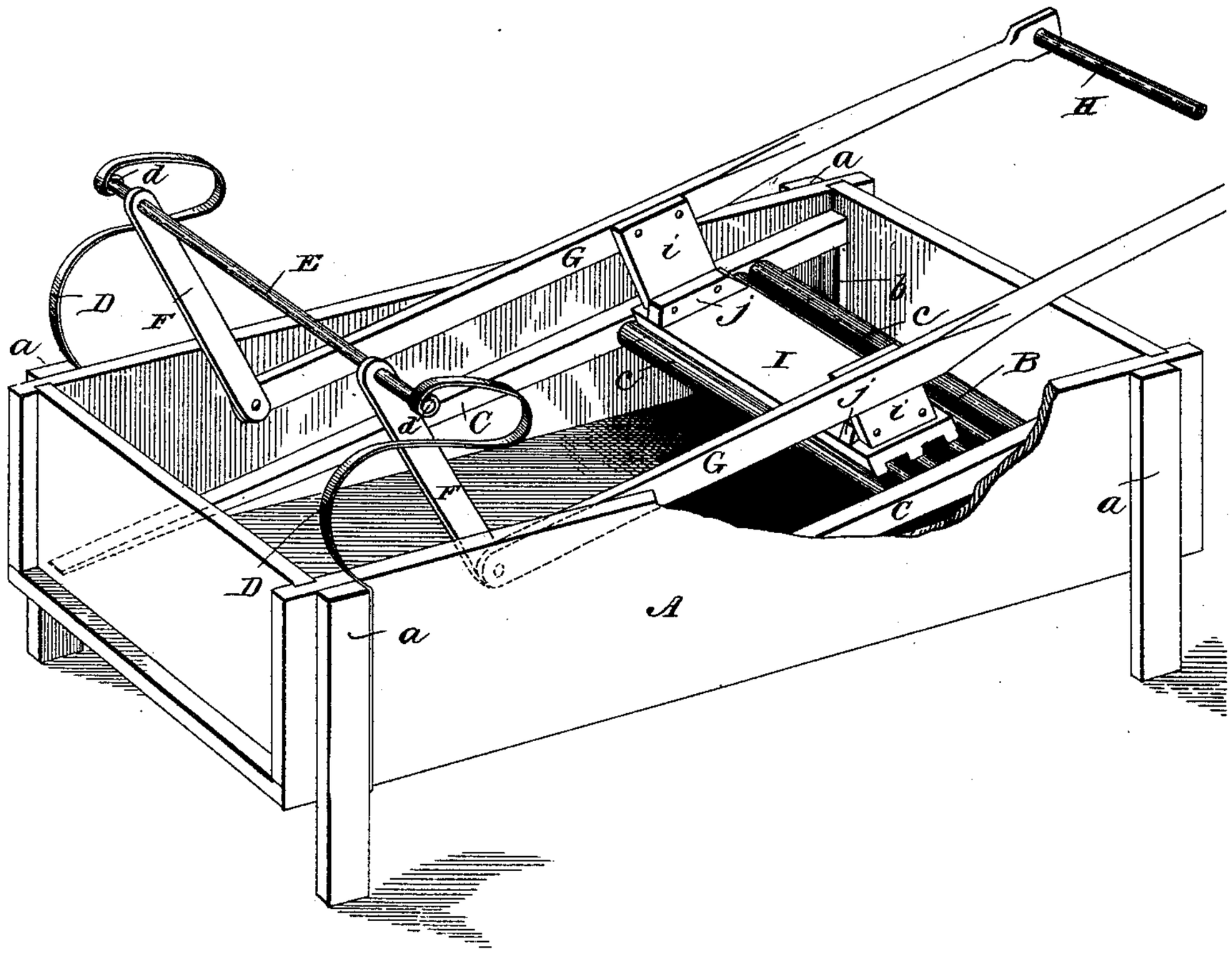
(No Model.)

D. H. SHERWOOD.

WASHING MACHINE.

No. 415,301. Patented Nov. 19, 1889.



WITNESSES.

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DANIEL H. SHERWOOD, OF SALEM, OREGON.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 415,301, dated November 19, 1889.

Application filed May 13, 1889. Serial No. 310,514. (No model.)

To all whom it may concern:

Be it known that I, DANIEL H. SHERWOOD, a citizen of the United States of America, residing at Salem, in the county of Marion and State of Oregon, have invented certain new and useful Improvements in Washing-Machines, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to washing-machines, and more particularly to that class known as "reciprocating rubber."

My object is to produce a machine which can be easily operated, and at the same time one which will be effective, simple, and durable.

With these ends in view my invention consists in the peculiar features and combinations of parts more fully described hereinafter, and pointed out in the claim.

Referring to the accompanying drawing, the figure represents a perspective view of my complete device, a portion of one side being broken away to show the wash-board and rubber.

The reference-letter A indicates a rectangular box or clothes-receptacle, which is provided with legs *a*. On the inside of the box, at one end, cleats or steps *b b* are secured, which support one end of the wash board B. This wash-board is formed in the usual manner, having a series of rollers *c c* journaled therein and projecting legs C C, which rest on the bottom of the box or clothes-receptacle A. Each of the forward legs *a* of the box has an S-shaped spring D secured thereto. The straight portions of these springs are screwed or otherwise securely fastened to said legs, respectively, and the S-shaped portions extend above the box and are formed at their upper extremities into bearings *d d*. These springs are connected by a horizontal bar or shaft E, the opposite extremities of which are confined within the bearings *d d*, respectively. The rubber-frame of the machine is hung from this shaft E by means of the depending arms F F, hinged or pivoted thereon. The lower ends of these arms are pivoted to the forward extremities of the side bars G G, respectively, of the rubber-frame, and the rear ends of these side bars are connected by the handle H, by means of which the rubber-frame is reciprocated.

The rubber I is secured to the rubber-frame by means of the upright pieces *i i*, secured at their upper extremities to the side bars G G and at their lower ends to cleats *j j*, fastened on the top of the rubber. It will thus be seen that the rubber is hung in such a manner that it can always be made to lie in the same plane as the wash-board, and consequently all unnecessary wear on the clothes is avoided. The rubber-frame, being hung from S-shaped springs, adds greatly to the ease with which the machine can be operated, obviating the jerking tiresome movement to the operator's arms which would otherwise occur. Moreover, these springs cause the rubber to adjust itself to the articles to be washed, and thus undue wear is avoided.

It is evident that many slight changes which might suggest themselves to a skilled mechanic could be resorted to without departing from the spirit and scope of my invention; hence I do not limit myself to the precise construction herein shown.

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

In a washing-machine, the combination of a clothes-receptacle, a wash-board arranged to fit in said receptacle, steps on the inside of the receptacle on which one end of said wash-board rests, a pair of S-shaped springs located on opposite sides of said receptacle, their free ends arranged to support the rubber-frame, a shaft connecting said springs, a rubber-frame consisting of a pair of side bars, a handle connecting the rear ends of said bars, and a rubber secured to and suspended from said bars, and a pair of arms connecting said shaft and said frame, the upper ends of these arms being pivoted on said shaft and their lower ends hinged to the side bars of the rubber-frame, respectively, whereby the rubber-frame is reciprocated beneath said shaft, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

DANIEL H. SHERWOOD.

Witnesses:
D. CARLOS SHERMAN,
L. E. PRATT.