

(No Model.)

J. D. COHEE & G. R. GAMBLE.

WASHING MACHINE.

No. 327,528.

Patented Oct. 6, 1885.

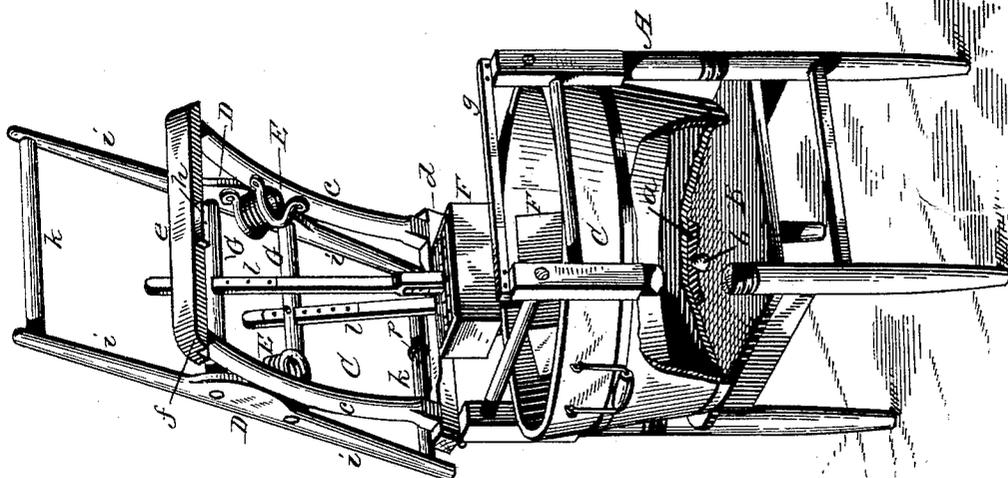


Fig. 1.

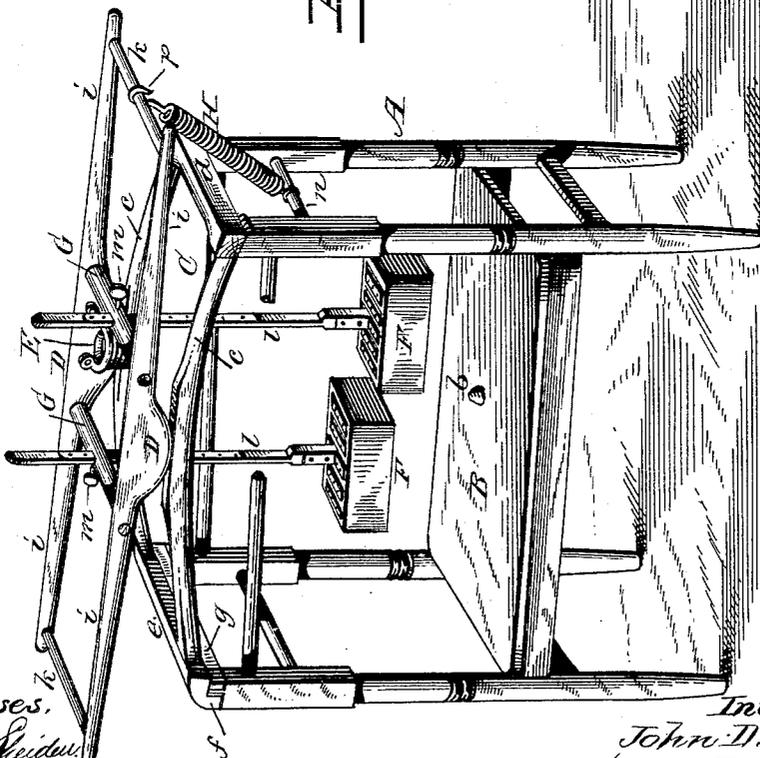


Fig. 2.

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UNITED STATES PATENT OFFICE.

JOHN D. COHEE AND GEORGE R. GAMBLE, OF FRANKFORT, INDIANA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 327,528, dated October 6, 1885.

Application filed March 30, 1885. Serial No. 160,619. (No model.)

To all whom it may concern:

Be it known that we, JOHN D. COHEE and GEORGE R. GAMBLE, citizens of the United States, residing at Frankfort, in the county of Clinton and State of Indiana, have invented certain new and useful Improvements in Washing-Machines; and we do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a perspective view of our improved washing-machine with the suds-tub removed; and Fig. 2, a similar view showing the operating mechanism thrown back when not in use and the suds-tub in position, the latter being partly broken away to show its pivotal support.

The present invention has relation to certain new and useful improvements in washing-machines in which are employed alternately-operating plungers; and the object thereof is to provide simple and effective means for giving to the plungers the required motion with comparatively little exertion by the attendant, which object we attain by the construction substantially as shown in the drawings, and hereinafter described and claimed.

In the accompanying drawings, A represents a suitable frame provided with a platform, B, for supporting the suds box or tub C, which may be of any desirable form, said tub having a bearing-block, *a*, upon its under side, to fit over and upon a stationary pivot, *b*, projecting up from the platform, thus enabling the tub to be turned upon a center pivot to bring the plungers at different positions in the tub or change their point of contact with the clothes.

To the frame A is hinged one end of a bearing-frame, C, consisting of the curved side bars, *c*, and end braces, *d e*. The brace *e* is formed with a longitudinal shoulder, *f*, extending its entire length, which fits over the cleat *g*, and held in engagement therewith by a button, *h*, pivoted to said end brace, thus holding the bearing-frame C in position when the machine is in operation, but allowing the frame to be thrown back, as shown in Fig. 2,

when the button is turned parallel with the end brace to which it is pivoted.

To the curved side bars, *c*, are connected rockers D by means of spiral springs E, which are secured to the sides of the bars and rockers, as shown. The rockers D are provided with arms *i*, connected at their extremities by cross-bars *k*, which serve as handles for operating the rockers.

Suitable plungers, F, having the usual stems, *l*, are connected to transverse rollers G by said stems passing up through slots in the rollers, and held in position by pins *m*, passing through perforations in the rollers and one of a series of holes in the stems, thus enabling the adjustment of the height of the plungers with relation to the frame A.

To one of the cross-bars *k* is attached one end of a spiral spring, H, the other end thereof being fastened to the round *n* of the frame A, the upper end of the spring having a hook, *p*, to hook over the bar, so that it may be readily detached therefrom when desired.

The edges of the rockers D, bearing on the convex or curved edge of the side bars, *c*, form a very effective means of giving to the plungers the required alternating reciprocating motion, the point of contact of the rockers with the curved bars forming the fulcrum. The spiral springs E assist in the motion of the rockers and render the operation of the machine much easier, while the spring H serves as a helper to bring the arms *i* to their normal position after being depressed.

The rollers G are loosely mounted in the sides of the arms *i*, so that they will turn on their axis to enable the plungers F to have a movement on the arc of a circle to accommodate them to the unevenness of the clothes.

Having now fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In a washing-machine, the combination, with curved side bars connected to end braces, of rockers and spiral springs connecting said rockers to the side bars, and plungers attached to rollers of the rocker-frame, substantially as and for the purpose set forth.

2. In a washing-machine, a suitable frame having a platform with a pivot for supporting the suds-tub, in combination with a hinged

frame consisting of curved side bars, and end
braces and rockers, and spiral springs con-
necting the rockers to the side bars, and
plungers attached to rollers, as shown, and for
5 the purpose set forth.

3. A washing-machine consisting of a suit-
able frame for supporting the suds-tub, and
provided with a hinged top frame having
curved side bars, rockers, and spiral springs
10 connecting them to the side bars, and a spring
helper connecting the rockers to the main

frame, and suitable plungers adjustably con-
nected to transverse rollers, substantially as
and for the purpose specified.

In testimony that we claim the above we 15
have hereunto subscribed our names in the
presence of two witnesses.

JOHN D. COHEE.

GEORGE R. GAMBLE.

Witnesses:

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