

No. 683,553.

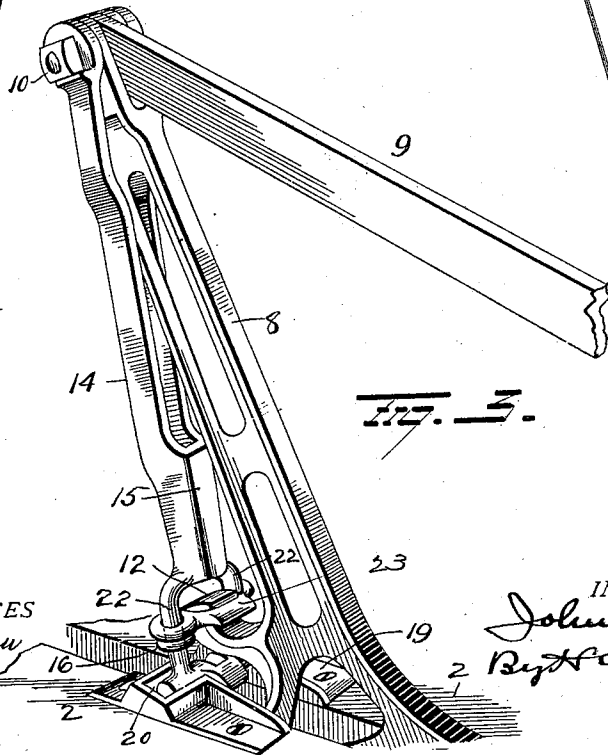
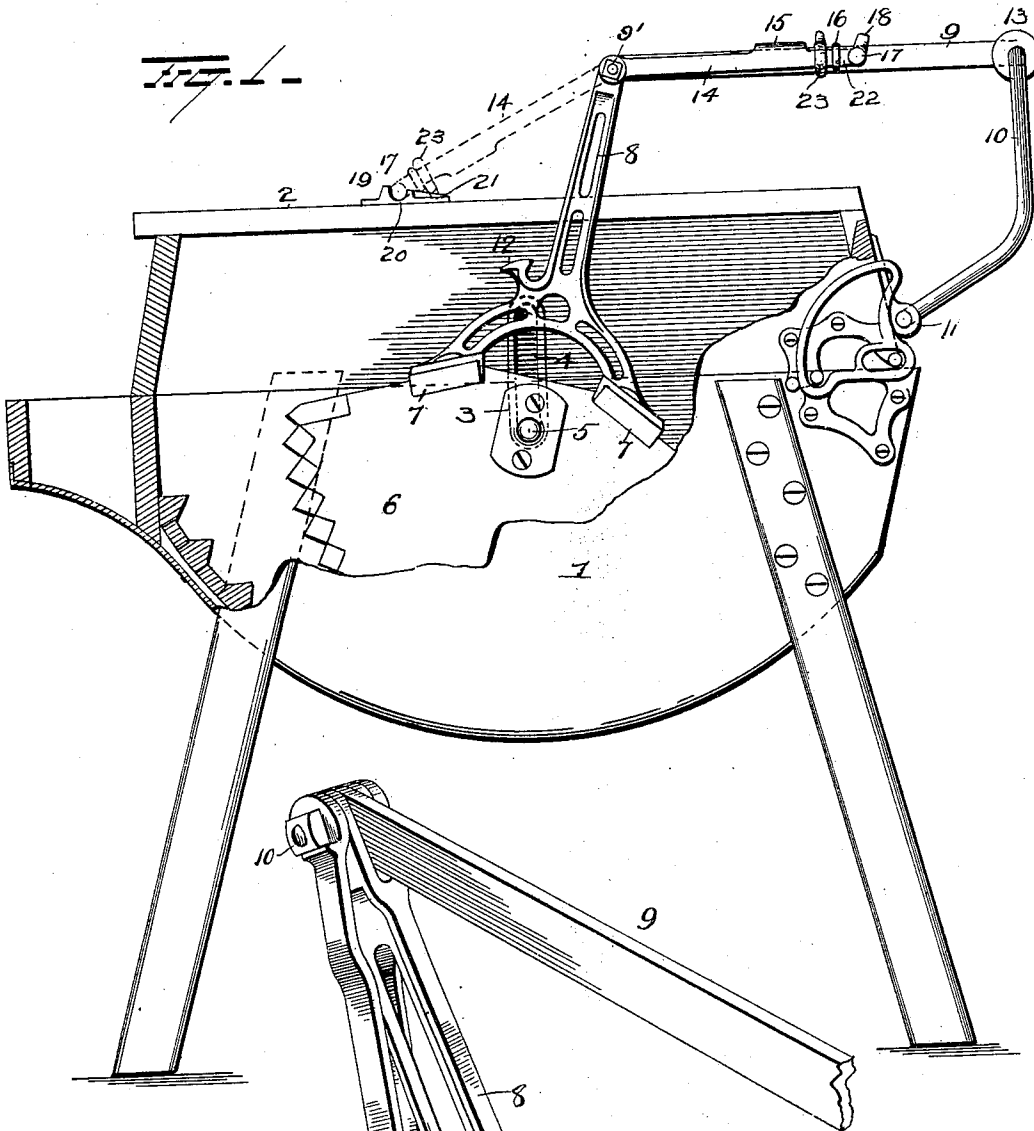
Patented Oct. 1, 1901.

J. R. CARTER.
WASHING MACHINE.

(Application filed Aug. 15, 1901.)

2 Sheets—Sheet 1.

(No Model.)



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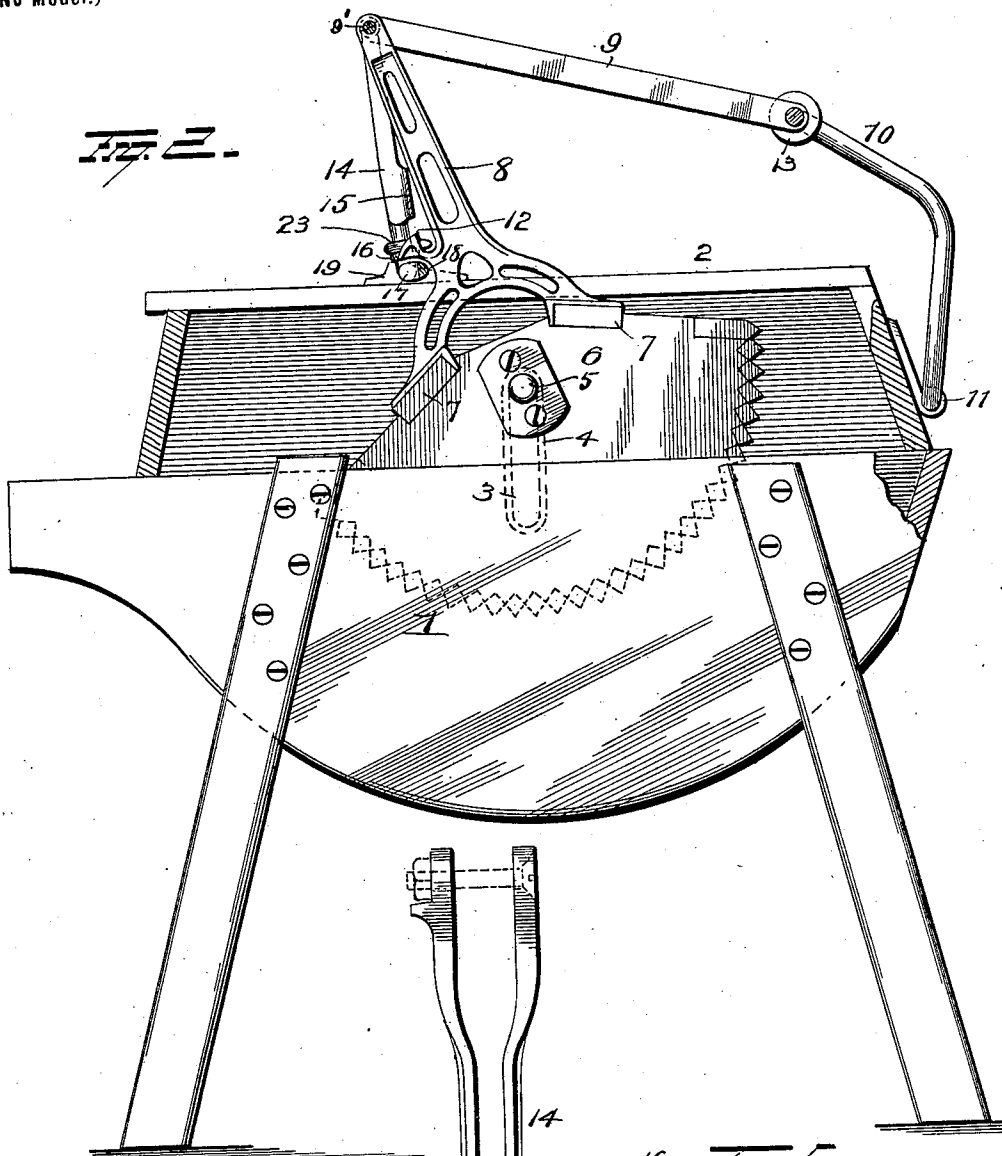
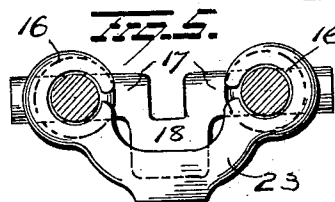
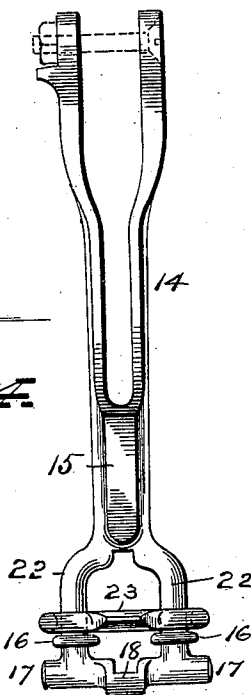


Fig. 4.



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UNITED STATES PATENT OFFICE.

JOHN R. CARTER, OF AUGUSTA, KENTUCKY, ASSIGNOR TO ERNST H. HUENEFELD, OF CINCINNATI, OHIO.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 683,553, dated October 1, 1901.

Application filed August 15, 1901. Serial No. 72,161. (No model.)

To all whom it may concern:

Be it known that I, JOHN R. CARTER, of Augusta, in the county of Bracken and State of Kentucky, have invented certain new and
5 useful Improvements in Washing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the
10 same.

My invention relates to an improvement in washing-machines, the object of the invention being to provide a washing-machine, in which the rubber is when in operative position supported in the body of the washer,
15 with improved means for raising the rubber and locking it in the cover.

With this object in view the invention consists in certain novel features of construction
20 and combinations and arrangements of parts, as will be more fully hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figures 1 and 2 are views in section illustrating my improvements; and Figs. 3, 4, and 5 are views
25 of details of construction.

1 represents the body of the machine, the bottom of which is semicircular and forms the lower stationary rubber, and to the body
30 1 a box-cover 2 is hinged at one end, as shown.

The body 1 and cover 2 are provided internally and centrally between their ends with elongated and alined bearings 3 4 for pintles 5 on the rubber 6, said bearings being preferably of metal secured in the body and cover
35 by any desired means.

The rubber 6 has secured to its upper transverse bars 7 an upright or lever 8, the lower forked end of the upright being made with
40 angular seats to be braced against the inner edges of the bars and are secured thereto by screws or bolts. The upper end of upright or lever 8 is bifurcated to receive one end of a pitman 9, pivotally connected thereto by a
45 bolt 9', passed through alined holes in the upright and pitman, and the other end of said pitman is pivotally connected to a swinging frame or bar 10, supported in bearings 11 on one end of the cover 2, and on the forward
50 edge of upright 8 and located a suitable dis-

tance from its upper end an integral upwardly-disposed hook 12 is provided for a purpose which will more fully hereinafter appear. Instead of making this hook 12 and upright or lever integral I might construct them separately and in various ways and secure them rigidly together by any well-known means.

The frame or bar 10 above referred to is provided with handholds or spools 13, to be grasped by the operator and moved backward
60 and forward to reciprocate the rubber 6, which latter when in its operative position is supported by the pintles 5 in the bottom of bearings 3 in body 1. However, instead of providing this swinging frame or bar 10 I
65 might connect the pitman to a suitable crank-shaft or other mechanism (not shown) for reciprocating the rubber.

A lifting-bar 14, having two members so shaped as to receive the upper bifurcated end
70 of upright 8, is pivotally secured on the bolt 9', above referred to. This bar 14 may be made in various ways; but I prefer to make it of malleable metal and connect the members by an integral portion 15 to strengthen
75 the same and maintain the members in their proper relative position. The lower portion of the lifting-bar is bowed, forming parallel uprights 22, having shoulders or seats 16 near their lower ends and connected at their lower
80 ends by a cross-bar 17, the latter having a tongue 18 centrally between its ends for a purpose which will now be explained. To receive the lower end of this lifting-bar, I secure to the cover 2, on opposite sides of the
85 longitudinal slot therein, castings or blocks 19, made with alined pockets 20 to receive the lower cross-bar 17, and also made with inclined flanges 21 and beveled ends to guide the bar into the pockets, and it will be seen
90 that as the tongue 18 is located centrally between the ends of this cross-bar 17 it will rest in the slot of the cover 2 and serve to prevent lateral movement of the lifting-bar and guide the same into the pockets in the castings.
95 On the parallel uprights 22 a link or catch 23 is loosely mounted and rests on the shoulders 16 and comprises a bar bent at its ends to receive the uprights and beveled or sharpened between its ends to be engaged by the beveled
100

face or hook 12 and raised thereby and falls behind the same to lock the upright 8 in its raised position, as will now be explained.

When the washer is in operation, the lifting-bar 14 is swung back on pitman 9 and is supported thereon out of the way and will not interfere with the perfect operation of the washer. When, however, it is desired to raise the cover 2 for the purpose of removing clothes or for any other purpose, it is necessary to also remove the rubber 6, and with my improvements this is accomplished by pulling the frame or bar 9 to its outward throw, dropping the lifting-bar 14 down onto the cover 2, and pushing the bar or frame 9 forward. The forward movement of bar or frame 9 forces the lower end of lifting-bar 14 along the cover. The tongue 18, resting in the slot, guides the bar onto the castings 19, onto which the latter rides and falls into the pockets 20, when a further forward movement of the frame 9 will raise the rubber 6, as the lower end of lifting-bar 14 in the pockets 20 serves as a fulcrum and raises the upright 8, drawing the pintles 5 on the rubber 6 up into the bearings 4 in the cover, and when the rubber has almost reached its highest position the beveled upper face of hook 12 engages the link or catch 23, and when the rubber is in its highest position the link or catch will fall behind the hook and securely lock the upright and rubber in their raised positions in the cover, so that when the cover is opened it will carry with it the rubber 6. To release the rubber, it is simply necessary to raise link or catch 23 out of engagement with the hook, when by moving the bar or frame 9 outward the rubber will be slowly lowered into operative position with its pintle 5 in the bottom of bearings 3. The lifting-bar 14 can then be thrown back on pitman 9 and the machine be ready for operation.

Various slight changes might be resorted to in the general form and arrangement of the several parts described without departing from the spirit and scope of my invention, and hence I would have it understood that I do not wish to limit myself to the precise details set forth, but consider myself at liberty to make such slight changes and alterations as fairly fall within the spirit and scope of my invention.

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

1. In a washing-machine, the combination with a body and a cover, of a rubber, operating mechanism for the rubber, a lifting-bar mounted on and carried by the operating mechanism, a rigid hook carried by the rubber and means carried by the lifting-bar for locking the hook against movement when the rubber is raised into the cover.

2. In a washing-machine, the combination with a body and a cover, of a rubber, operating mechanism for the rubber, a lifting-bar carried by and operated by the operating mechanism, a hook carried by the rubber and a movable catch carried by the lifting-bar to engage the hook.

3. In a washing-machine, the combination with a body and a cover therefor, of a rubber, an upright or lever on the rubber projecting through a slot in the cover and having a rigid upturned hook thereon, an operating-pitman for the rubber connected to the upright, a lifting-bar for raising the rubber into the cover and a catch on said bar to lock the hook against movement.

4. In a washing-machine, the combination with a body and a cover therefor, of a rubber, an upright or lever secured to the rubber and projecting up through a slot in the cover, mechanism connected to and adapted to reciprocate the upright, a lifting-bar connected with the upright, socketed castings or blocks on the cover to receive the free end of the lifting-bar, means for guiding the lifting-bar into the sockets, a movable link or catch carried by the bar, and a hook on the upright or lever to be engaged by said catch when the rubber is raised.

5. In a washing-machine, the combination with a body and a cover, of a rubber, means for reciprocating the rubber, a lifting-bar connected to the operating mechanism and adapted to lift the rubber in the cover and comprising two members connected at their free ends by a cross-bar, notched castings or blocks on the cover to receive and form bearings to fulcrum the free end of the bar, a hook on the rubber, and a beveled or sharpened link or catch loosely mounted on the members of the bar to lock the hook against movement.

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

JOHN R. CARTER.

Witnesses:

S. W. FOSTER,
G. F. DOWNING.