

No. 649,238.

Patented May 8, 1900.

J. A. GALLAGHER.
WASHING MACHINE.

(Application filed Feb. 3, 1900.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 2.

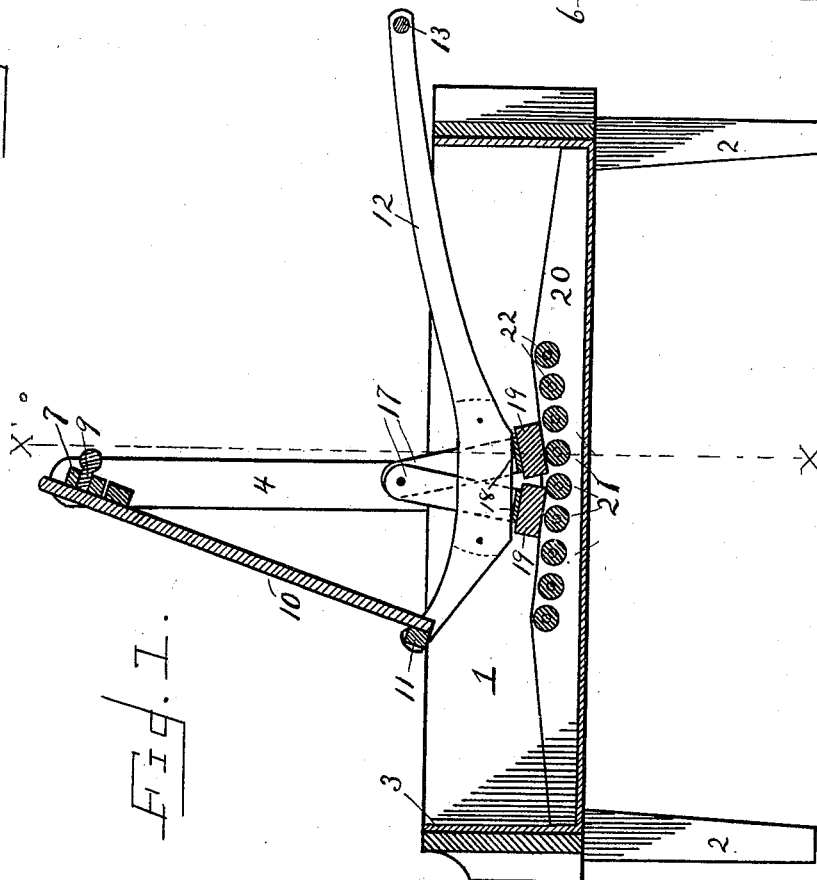
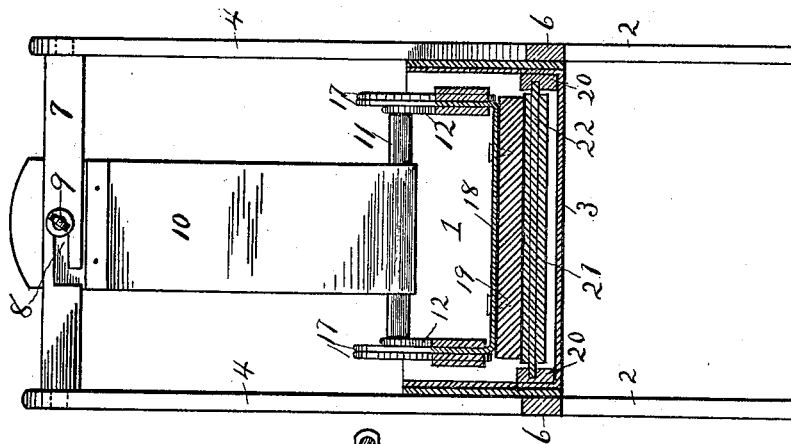


Fig. 1.

Witnesses

J. Howard Deere,
Elbert Deere

Inventor

John A. Gallagher
By C. P. Jones.
Attorney

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Fig. 3.

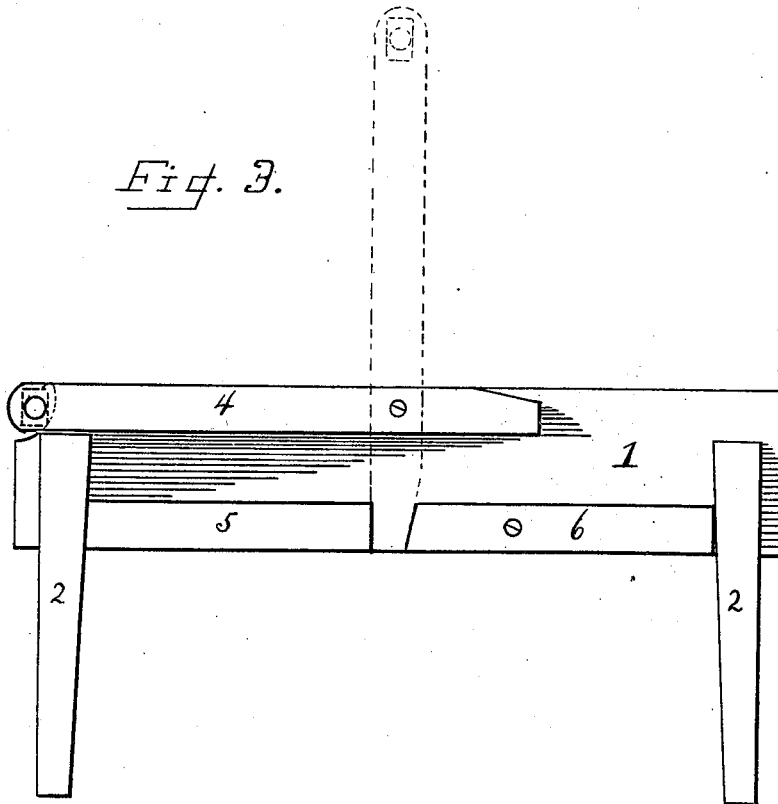
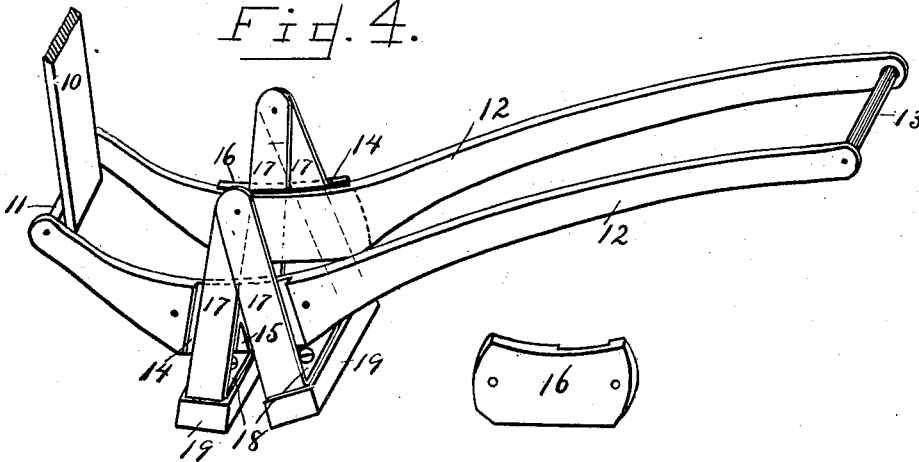


Fig. 4.



Witnesses

J. Howard Duckett
Elbert Deut

Inventor

John A. Gallagher
By E. P. Jones
Attorney

UNITED STATES PATENT OFFICE.

JOHN AMBROSE GALLAGHER, OF STOCKTON, CALIFORNIA.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 649,238, dated May 8, 1900.

Application filed February 3, 1900. Serial No. 3,775. (No model.)

To all whom it may concern:

Be it known that I, JOHN AMBROSE GALLAGHER, a citizen of the United States, residing at Stockton, in the county of San Joaquin and State of California, have invented certain new and 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 same.

The invention relates to improvements in washing-machines.

The objects of this invention are to provide a machine which will subject the clothes being washed to a treatment similar to that through which they undergo when washed by hand and whereby any particular portion of a garment may be cleaned and to provide a clamping device for securely holding the clothes which will readily adjust itself to suit the amount of clothes undergoing cleaning and, furthermore, to accomplish the above results in the most simple and efficient manner.

The invention consists in the construction and novel combination and arrangements of parts hereinafter fully described, illustrated in the drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a vertical longitudinal sectional view of my invention. Fig. 2 is a cross-section on the line *xx* of Fig. 1. Fig. 3 is a side elevation of the machine folded, and Fig. 4 is a detail of the clothes-gripping device.

Referring to the drawings, 1 represents the body or suds-box of the washing-machine, rectangular in form and supported at a convenient height by legs 2 and provided with a sheet-metal lining 3, which also forms the bottom of the suds-box. The uprights or standards 4 are pivotally secured to the sides of the suds-box and are securely held in their upright position by means of the stationary brace-bars 5 and the pivoted brace-bars 6 and have arranged in their upper ends bearings in which work the journals of the rocking cross-bar 7. In the center of the rocking cross-bar 7 is formed a bayonet-slot 8, adapted to receive a bolt 9, secured in the upper end of the oscillating rod or board 10, which has

rigidly secured to the lower end thereof a cross-bar 11, which in turn has pivotally secured to each end curved levers 12 12. A cross-bar 13 connects the free ends of the levers 12 and serves as a handle for reciprocating the oscillating frame just described. The levers 12 12 have their inner ends pivotally secured to the ends of the cross-bar 13, from which point they curve downwardly and rearwardly and have slidably secured in their lower curved portion the arms 17 17 of the clamping device hereinafter described. The levers then gradually curve upwardly and rearwardly, and in their normal position their rear ends project beyond and rest upon the upper rear edge of the suds-box.

The clamping device consists of two parallel strips 18 18, having clamping-blocks 19 19 secured to their under surfaces. The ends of the said strips are turned up at right angles to the body portion to form arms 17 17, which are passed upwardly through converging slots or recesses 14 14, formed in the lower curved portion of the levers 12 12, and are pivotally connected at their upper ends. As shown, the said slots 14 14 are made by forming recesses in the outer sides of the levers 12 12 and securing a removable plate 16 thereover.

The roller-bed is situated in the bottom of the suds-box and consists of bars 20 20 at each side of the bottom and extending the entire length thereof and having a slightly-curved series of rolls 21 centrally located between the said bars and connected therewith by suitable bearings. In the present case the rolls are made in the form of a tube and rotate on rods 22, which are firmly fixed in the bars 20 20.

The operation of my machine is as follows: It will readily be seen that by raising the handle of the levers the gripping-jaws will be forced open on account of the upward pressure of the stop or slot division 15 and also that the slightest upward pressure against the said jaws or clamping-blocks will tend to force upward the upturned ends of the jaws in their slots and cause the said jaws to close to a corresponding degree, and the greater the pressure the tighter the jaws will be closed. It will thus be seen that when the handle 13 of the oscillating levers is raised

the clamping-jaws will open and be in position to take hold of a garment either in the forward or rear portion of the suds-box, which is accomplished by merely resting the clamping-jaws on the garment desired to be cleaned and depressing the handle of the levers, when the jaws will be forced together and the garment tightly held between them and can be reciprocated over the roller-bed 21 as long as is necessary. When a new hold is desired or another garment, all that is necessary is to raise the handle 13, and the garment being cleaned will drop from the jaws, when the operation is repeated.

When the machine is not in use, it can be folded together by first disconnecting the reciprocating frame from the rocking cross-bar, which is readily accomplished by simply sliding the bolt on the bar 10 out of the bayonet-slot in the said cross-bar, after which the said bar 10 can be folded between the levers 12 12 and the oscillating frame laid out of the way in the suds-box. The uprights or standards are then released by depressing the inner ends of the pivoted brace-bars 6, when the standards can be made to lie flush with the top sides of the suds-box, the rocking cross-bar, which connects the upper ends of the standards, taking a similar position at the end of the machine. The pivoted brace-bars are then made to resume their former positions. By placing a suitable cover on the machine as now folded it could be utilized as a table, if desired.

What I claim is—

1. In a washing-machine, the combination of a body having a roller-bed therein, standards secured to the said body carrying a reciprocating frame, the said frame having slotted levers connected therewith and a clothes-clamp working in the said slotted levers, substantially as set forth.

2. In a washing-machine, the combination of a body having a roller-bed therein, standards secured to the body carrying a reciprocating frame having connected therewith curved levers with slots therein, and a clothes-clamp device consisting of clamping members provided with upwardly-extending arms pivotally connected at their upper ends and slidably working in the said slots, substantially as set forth.

3. In a washing-machine, the combination of a body, uprights or standards pivotally secured to the sides thereof, a rocking shaft having its ends journaled in said standards and provided with a bayonet-slot, an oscillating frame provided with a bolt that engages said bayonet-slot, and a rubber connected to said oscillating frame, substantially as set forth.

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

JOHN AMBROSE GALLAGHER.

Witnesses:

JAS. M. McCARTY,
CHAS. A. LIBBEY.