(No Model.)

# J. CHAMBERS.

## WASHING MACHINE.

No. 408,082. Patented July 30, 1889.

Fig. 1.

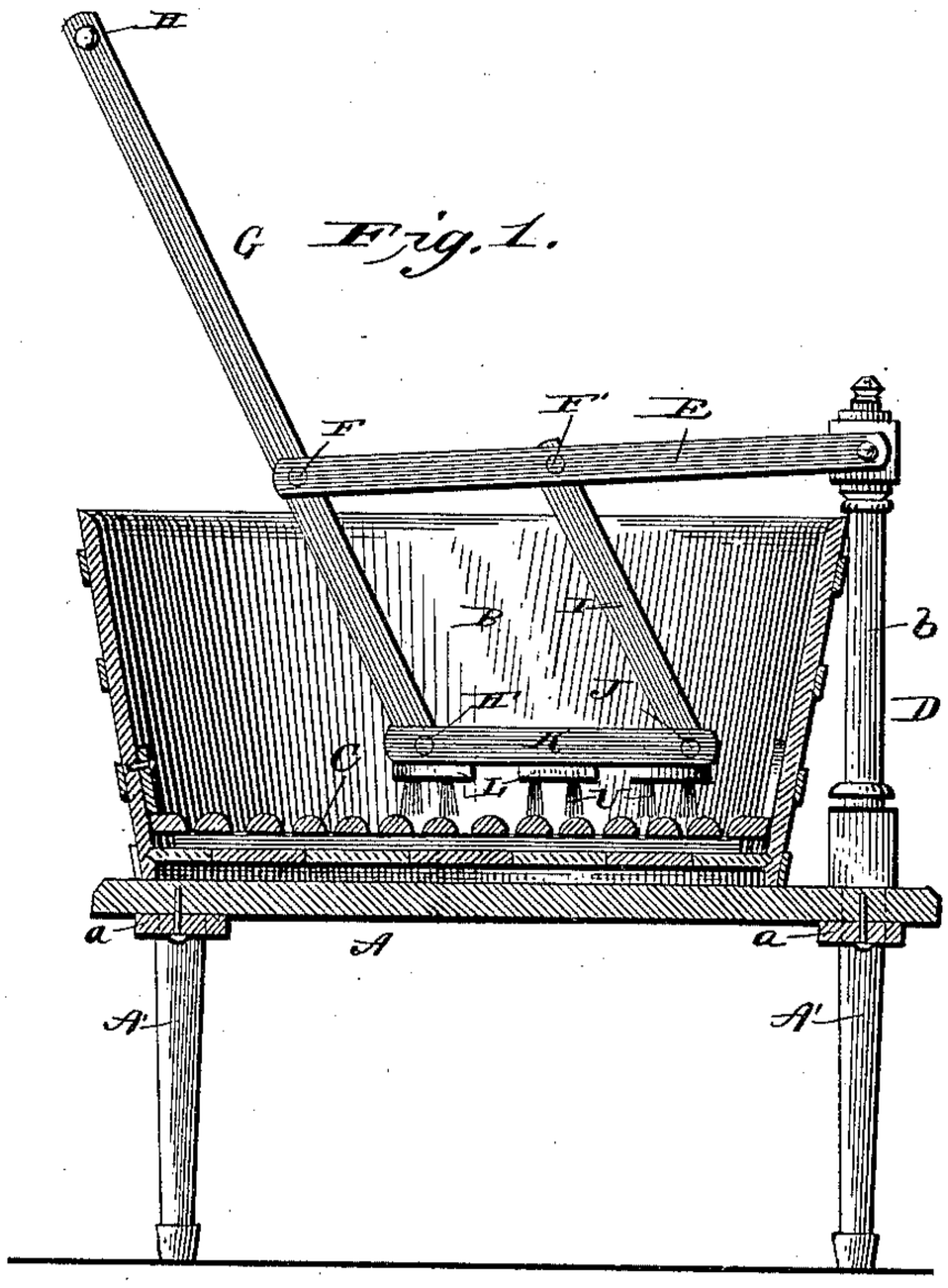



Fig. 2.

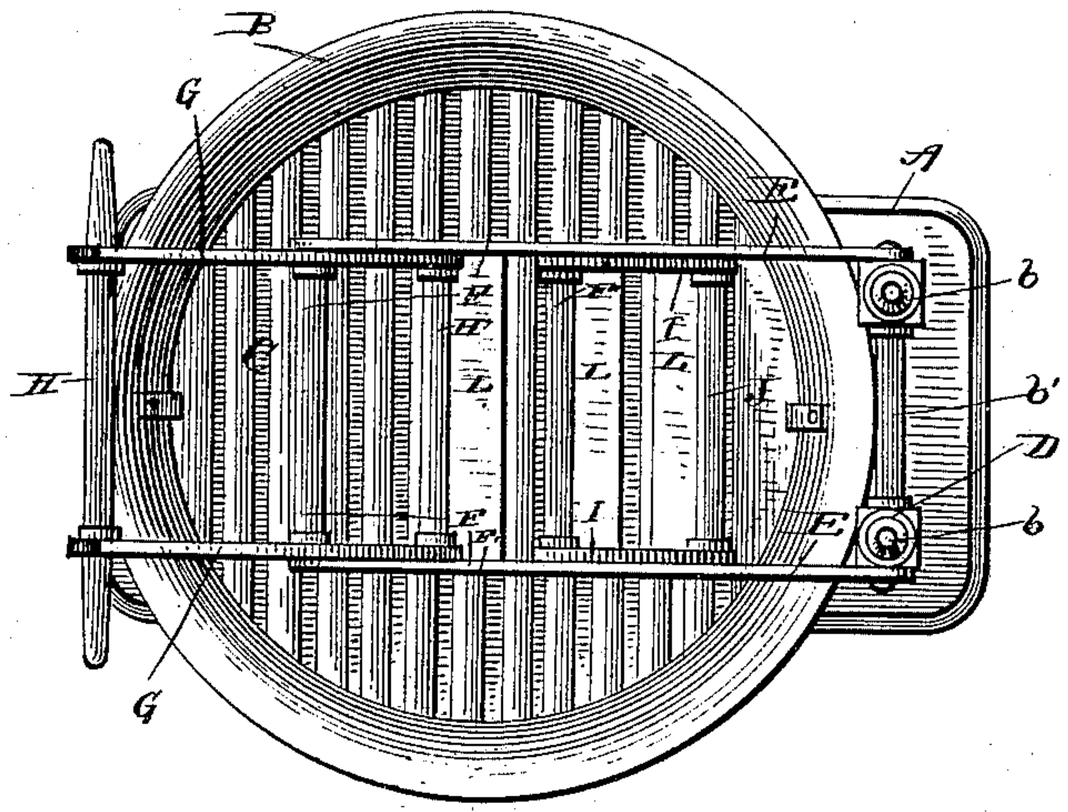
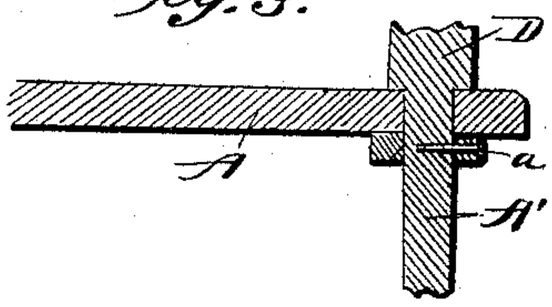



Fig. 3.




WITNESSES

Jno. S. Finch Jr.

C. O. Davis

INVENTOR

James Chambers

By C. M. Alexander

Attorney

# UNITED STATES PATENT OFFICE.

JAMES CHAMBERS, OF ROCHESTER, INDIANA.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 408,082, dated July 30, 1889.

Application filed August 9, 1888. Serial No. 282,305. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES CHAMBERS, a citizen of the United States, residing at Rochester, in the county of Fulton and State of Indiana, have invented certain new and useful Improvements in Washing-Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention has relation to certain new and useful improvements in washing-machines of that class wherein a reciprocating rubber or washer is employed in connection with a slotted or corrugated rubbing-surface, the clothes to be washed being operated upon between the rubber and corrugated surface, as will be more fully hereinafter explained.

The object of this invention is to provide an extremely cheap and simple apparatus that may be used with an ordinary wash-tub, that will be thorough and efficient in its work, and that will accommodate large or small washings, as will be clearly understood from the following.

In describing my invention reference is made to the accompanying sheet of drawings, in which—

Figure 1 represents a vertical sectional view of my improved machine; Fig. 2, a plan view thereof, and Fig. 3 a detail view showing the manner of constructing the bench-supports and supporting-frame for the washing apparatus.

Referring to the drawings by letters, A designates a suitable stand or bench, on which is placed a wash-tub B, and in this tub is removably secured a slotted or corrugated surface or bottom C. The bench is supported on legs A′, inserted and secured in sockets in transverse cleats *a*, secured on the bottom of the bench. Erected upon the rear end of the bench is a stout frame D, comprising two standards *b b*, connected together by means of a transverse bar *b′*, said standards forming continuations of the rear legs of the bench. Pivoted to the top of the standards *b b* and extending forwardly therefrom are two horizontal bars or levers E, which are connected together and braced at their forward ends and about midway their length by transverse rounds F F′. Pivoted on the round F, just inside of the bars E, are the vertical operating-levers G, connected together and braced at their ends by transverse rounds H H′, the former of which is somewhat extended at its ends, and serves as an operating-handle. Pivoted on the round F′, just inside of the bars E, are two depending links I, connected together at their lower ends by a transverse round J. Connecting the lower ends of the levers G and links I and pivotally-supported on the ends of rounds H′ and J are the bars K, and attached to these bars are the rubbers or washers L, as shown in Fig. 1.

It will be observed that by pivoting bars E the apparatus may be thrown back out of the tub after every washing operation, and also that it will accommodate itself to large or small washings. It will also be perceived that by means of the pivoted levers G and depending links I and connecting-bars K the rubbers will always remain in an approximately horizontal position, thus enabling an ordinary flat-bottom tub to be used; and, further, by means of this manner of hanging the washer or rubber the same pressure will be brought to bear on the clothes over the entire rubbing-surface of the washer.

In operation the levers G G are moved back and forth by hand, this movement of the levers communicating a like reciprocating motion to the rubbers.

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

The combination of a table, a rigid support erected upon one end of this table, the two rearwardly-extending parallel bars E E, pivoted to the said rigid support, the two operating-levers G G, pivoted to the forward ends of the said bars E, the lower portions of both of these levers being extended below these bars, the depending links I I, pivoted to the bars E E between their pivotal points and their forward ends, the horizontal parallel bars K K, pivotally connecting the lower ends of the levers G G and the links I I, the connecting and bracing rounds F F′ and H′ J, and rubbers attached to the side bars K K, as and for the purpose described.

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

JAMES CHAMBERS.

Witnesses:

J. D. BITTERS,

JOHN M. CHAMBERS.