

(No Model.)

J. R. MARTINDALE.

WASHING MACHINE.

No. 272,666.

Patented Feb. 20, 1883.

Fig. 1.

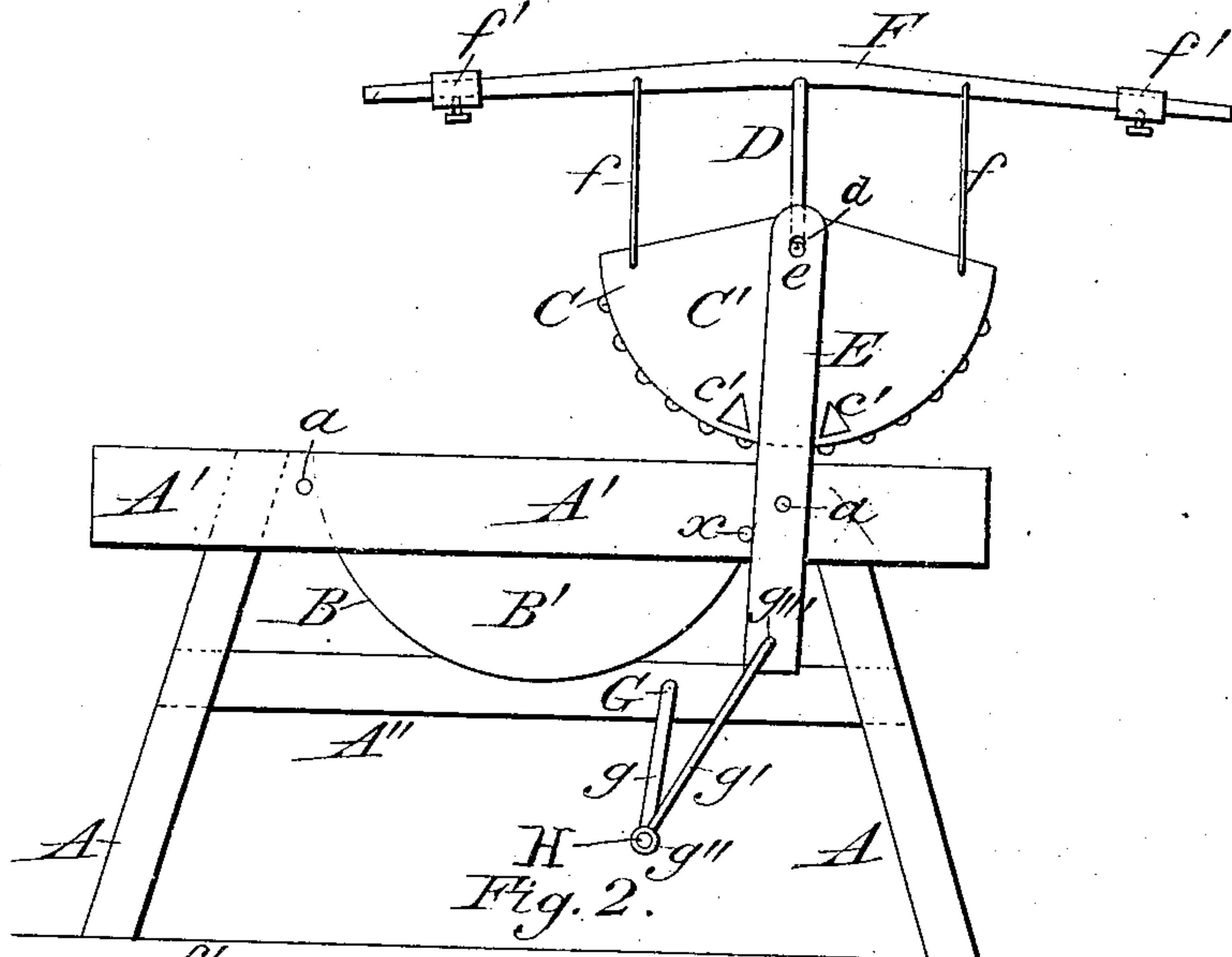


Fig. 2.

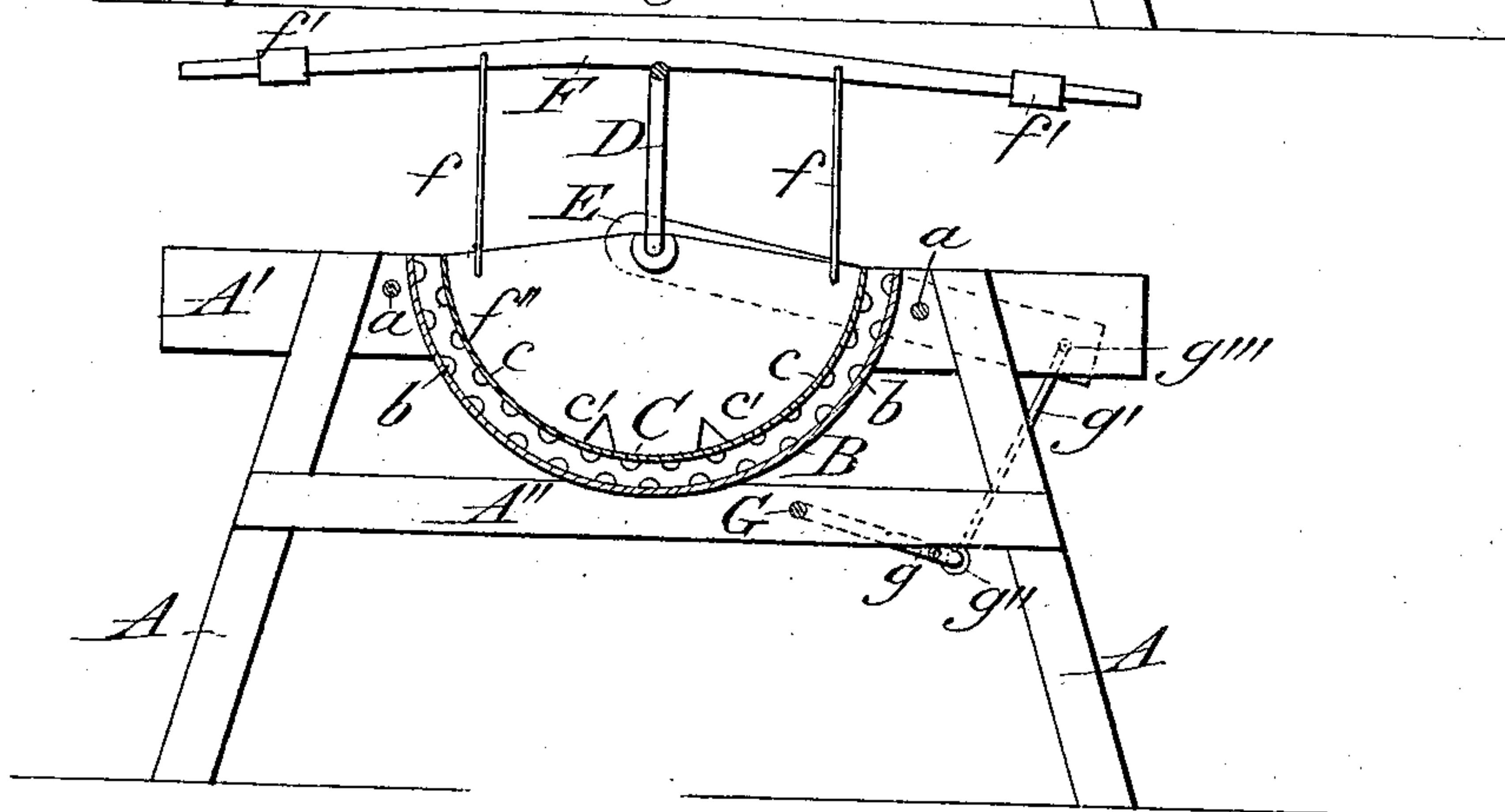
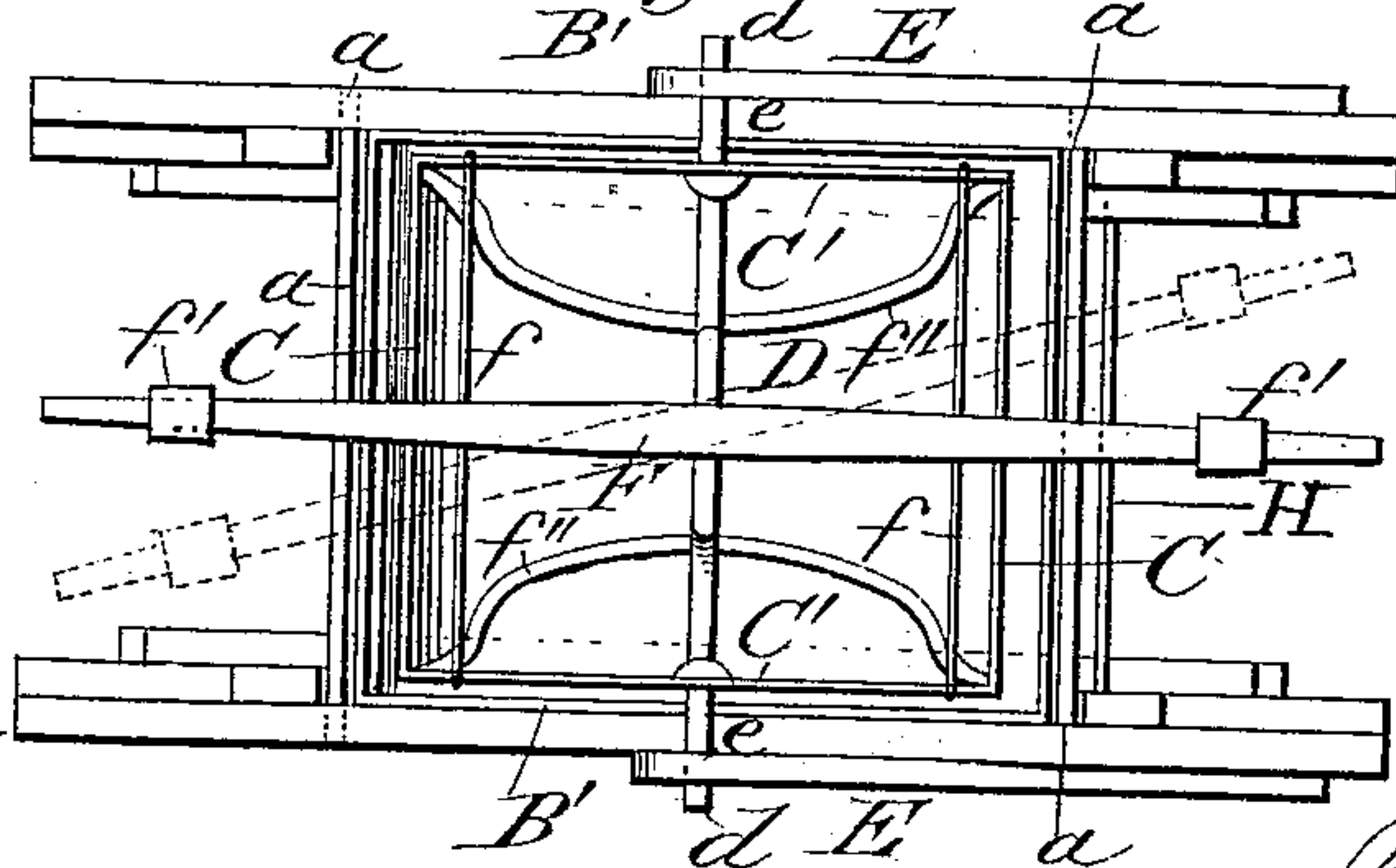


Fig. 3.



Attest:

J. H. Schott.

A. R. Brown,

Inventor:

John R. Martindale  
By N. Crawford atty.

# UNITED STATES PATENT OFFICE.

JOHN R. MARTINDALE, OF BUENA VISTA, INDIANA.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 272,666, dated February 20, 1883.

Application filed July 6, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN R. MARTINDALE, a citizen of the United States, residing at Buena Vista, in the county of Monroe and State of Indiana, have invented certain new and useful Improvements in Washing-Machines; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

The object of this invention is to improve the washing-machines—such, for instance, as are operated by hand; and it consists in the construction of the operating parts of the machine, as will be fully hereinafter described.

In the drawings, Figure 1 represents a side view of the machine. Fig. 2 represents a longitudinal sectional view, and Fig. 3 represents a top view, of the machine.

A A represent the legs, A' A' the upper longitudinal girts, A'' A'' the lower girts, and a a the transverse rods that bind the two sides to each other, and all together form the frame that supports the actuating parts.

B is the tub in which the clothes, with the suds, are placed, and in which the washing is performed. This tub is in form of a half-cylinder with heads B', and open at the top, as seen in Fig. 2, has inwardly-projecting half-rounds or corrugations b on its inner surface, is formed from a sheet of galvanized iron, and secured at its top edge to the girts A', and rests upon the lower girts, A''.

C is an oscillating washer or scrubber, is in form of a half-cylinder with heads C', all made from galvanized sheet metal, by preference, and has projecting outwardly from its surface half-rounds or corrugations c, of either wood or metal, and has holes c' c' through its heads and near the surface of the washer, to allow any water or suds that may have been forced therein in washing to freely discharge itself from the inside of the scrubber as it is lifted upward.

D is a bent axle, having its ends in line and the center part bent upward a considerable

distance to form a horizontal part at its center of length, and the horizontal bearing ends pass through the ends C' of the scrubber C, and to which the ends of the scrubber are secured firmly, while the outer ends of the axle d d have bearings e in pivoted arms E, and freely oscillate in said bearings e, that are near the free ends of arms E.

F is a horizontal or nearly horizontal lever, made fast to the center of the upwardly-bent axle D, and may be so secured to the axle as to be at right angles with the axial line thereof, or it may be secured so as to be at an oblique angle thereto, as seen in Fig. 3 in dotted lines.

f f are bail-braces equidistant from and on opposite sides of the axle D, are made fast at their ends to the heads C' of the scrubber, and thence curve upward, and are secured at the crown to the lever F.

f' f' are balance-weights upon the ends of lever F, and are adjustable thereon, and held by set-screws or other device.

f'' f'' are bent bars of metal, made fast to the inside of the scrubber, to strengthen it and prevent its springing when a hard strain comes upon it in washing.

Arms E are located outside of the supporting-frame, and are pivoted thereto by the transverse tie-rods a, and upon which they will freely vibrate.

G is a crank-shaft placed transversely across the frame, and is supported in bearings in girts A'' on either side, and outside of the said girts it is bent to form the cranks g, at the extreme ends of which cranks are rods or links g', fast thereto, and so constructed that the rods g' will allow the ends of the cranks to freely turn in eyes g'' at the lower ends of rods g', while their upper ends are attached by pivot to the outer ends of arms E at g'''.

H is a transverse treadle, secured at each end to and near the ends of cranks g, and in such manner as to operate underneath the girts A''.

A washing-machine constructed as above described is operated in the following manner: The clothes or goods to be washed with the suds or water are placed in the tub B when the washer or scrubber is in the position as



seen in Fig. 1, and when so placed the operator or operators take hold of the lever F and oscillate it and the washer C by alternately raising and falling the lever F, which acts  
5 upon the clothes in tub B to both rub and squeeze the water and dirt from them through the action of the corrugations or projections *b* and *c* on the tub and washer as the washer or scrubber vibrates. When the clothes or goods  
10 are sufficiently washed or need turning or loosening up in the tub, the operator places his foot upon the treadle H, and by bearing down thereon overcomes the weight of the washer and its devices, and it is at a single operation  
15 lifted up out of the tub and swung back out of the way, when the tub and contents are accessible and can be handled as may be desired. Pins X stop and hold arms E in position when the washer is raised and swung back. The  
20 tub and washer, being made of sheet metal,

gives a light machine that is easily and cheaply constructed, and at the same time durable.

I am aware that washing-machines with a circular tub and a circular oscillating washer have been used, and I do not claim such construction; but

What I do claim, and desire to secure by Letters Patent, is—

The bent axle D, secured to the heads C' of the scrubber, and its ends *d d*, journaled in  
30 pivoted arms E, lever F, attached to the crown of the axle, and bail-braces *ff*, in combination with the oscillating scrubber C, constructed and operating as described.

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

JOHN R. MARTINDALE.

Witnesses:

RICHARD W. YOHIO,  
T. V. NOWELL.