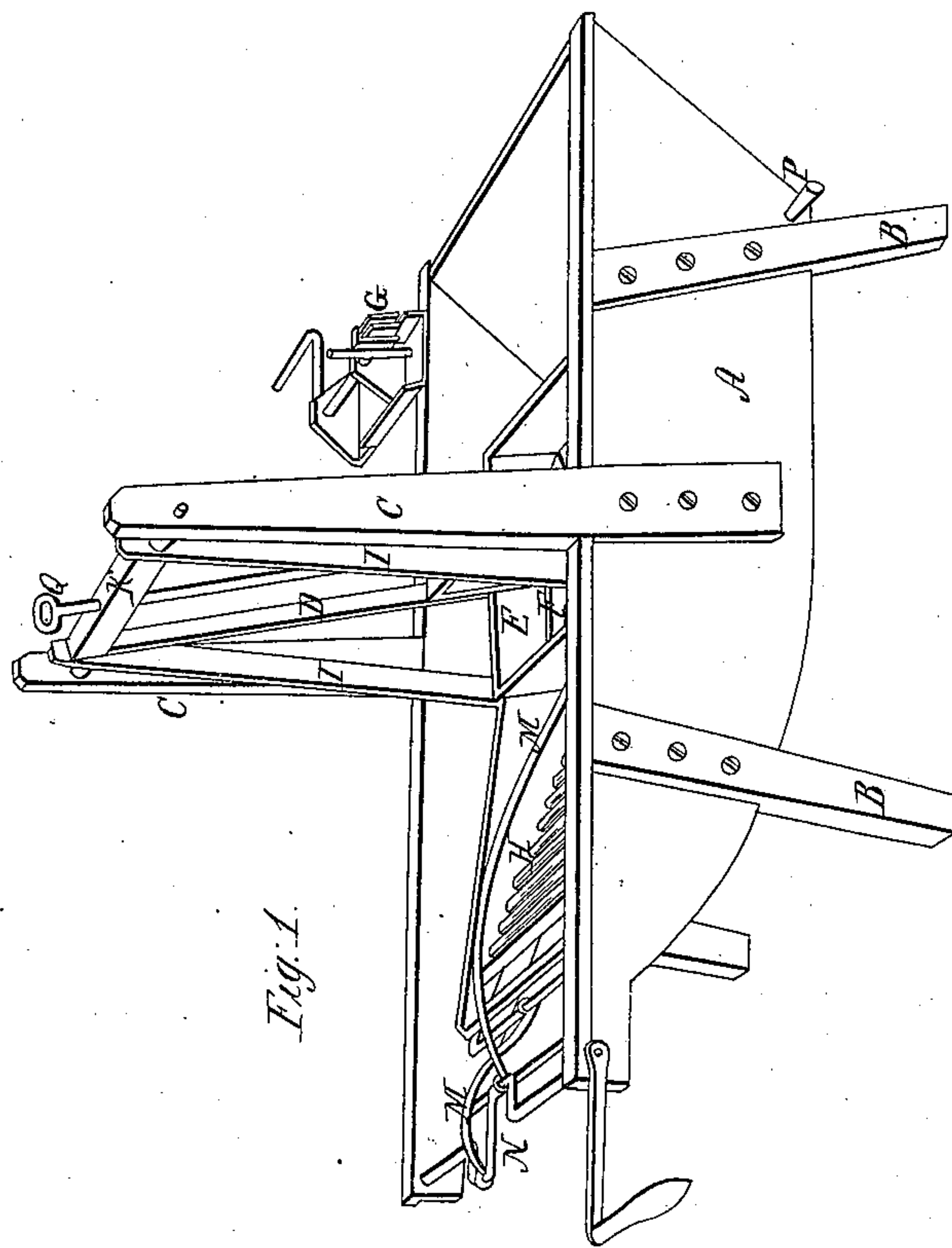
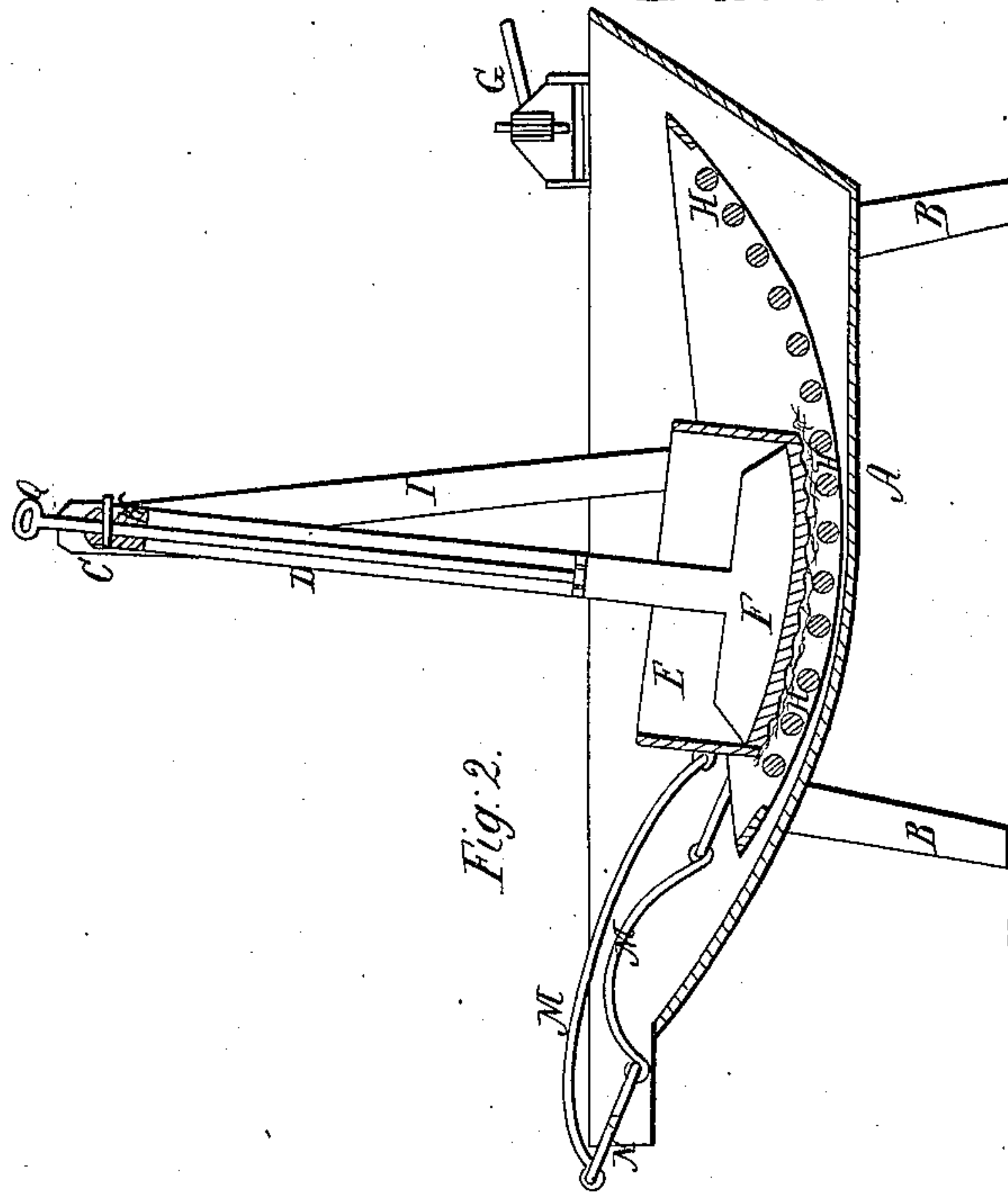


E. D. Wilson,

Washing Machine,

N^o 4,891.

Patented Dec. 15, 1846.



UNITED STATES PATENT OFFICE.

E. D. WILSON, OF PHILIPPI, VIRGINIA.

WASHING-MACHINE.

Specification of Letters Patent No. 4,891, dated December 15, 1846.

To all whom it may concern:

Be it known that I, EDWIN D. WILSON, of Philippi, in the county of Barbour and State of Virginia, have invented a new and
5 useful Improvement in Machines for Washing Clothes, which is described as follows, reference being had to the annexed drawings of the same, making part of this specification.

10 Figure 1 is a perspective view of the machine. Fig. 2 is a vertical longitudinal section.

My improvement consists in constructing the machine in such manner that the concave bed of rollers which is usually placed
15 on the bottom of the wash board or on springs resting thereon shall be suspended by arms from the usual rock shaft to which the ordinary vibrating rubber is attached
20 so that said bed of rollers shall move longitudinally and simultaneously but in a contrary direction and in a manner approximating to that of the human hands during the operation of rubbing or washing a garment.
25

The machine in other respects is made like the common washing machine such as the tub A, the legs B, the standards C, arms D, swinging box E, follower F, wringer G.

30 The concave or bed of parallel rollers H is likewise made in the usual manner. It, however, as before stated is suspended by arms I from the pivots of the rock shaft K which shaft vibrates or turns in boxes or
35 bearings in the upper ends of the standards C fastened to the sides of the tub. This concave bed of rollers and clothes box are vibrated back and forth longitudinally by means of rods M attached to a transverse
40 double crank shaft N turned by hand.

The tub A is provided with a hole and plug P at the lower part thereof for the discharge of the water.

The hot water and soap being put into

the tub A and the clothes placed in the
45 swinging box E the follower F is brought down upon them by means of the rod Q attached to it passing through the rock shaft and made fast. The triple crank shaft N
is then turned which causes the box contain-
50 ing the clothes to move in one direction while the concave of rollers is made to move in an opposite direction thus subjecting the clothes to a rubbing and pressing and rinsing action between the rollers of the swing-
55 ing concave H and the bars or rolls of the follower F until the dirt be completely extracted from them. They are then removed to the wringing apparatus G.

The wringing apparatus consists of a
60 crank axle with a clamp G at the end for seizing the article to be wrung which article being twisted around a fixed object and the crank turned will cause the article put therein to be twisted and the water to be ex-
65 pressed therefrom. The clamp is then to be opened and the article removed.

What I claim as my own invention and desire to secure by Letters Patent, is—

Constructing the washing machine with
70 a swinging concave of rollers H, upon which the clothes to be washed are placed, in combination with a swinging box E open at top and bottom for holding the clothes in contact with the rollers H and moving them
75 back and forth over the same having a corresponding follower F, placed therein moved simultaneously with said concave of rollers by means of a triple crank N and connecting rods M the concave of rollers
80 moving in one direction, while the box with the follower and clothes therein moves in an opposite direction, by which the double action is produced as set forth.

E. D. WILSON.

Witnesses:

WM. P. ELLIOTT,

ALBERT E. H. JOHNSON.