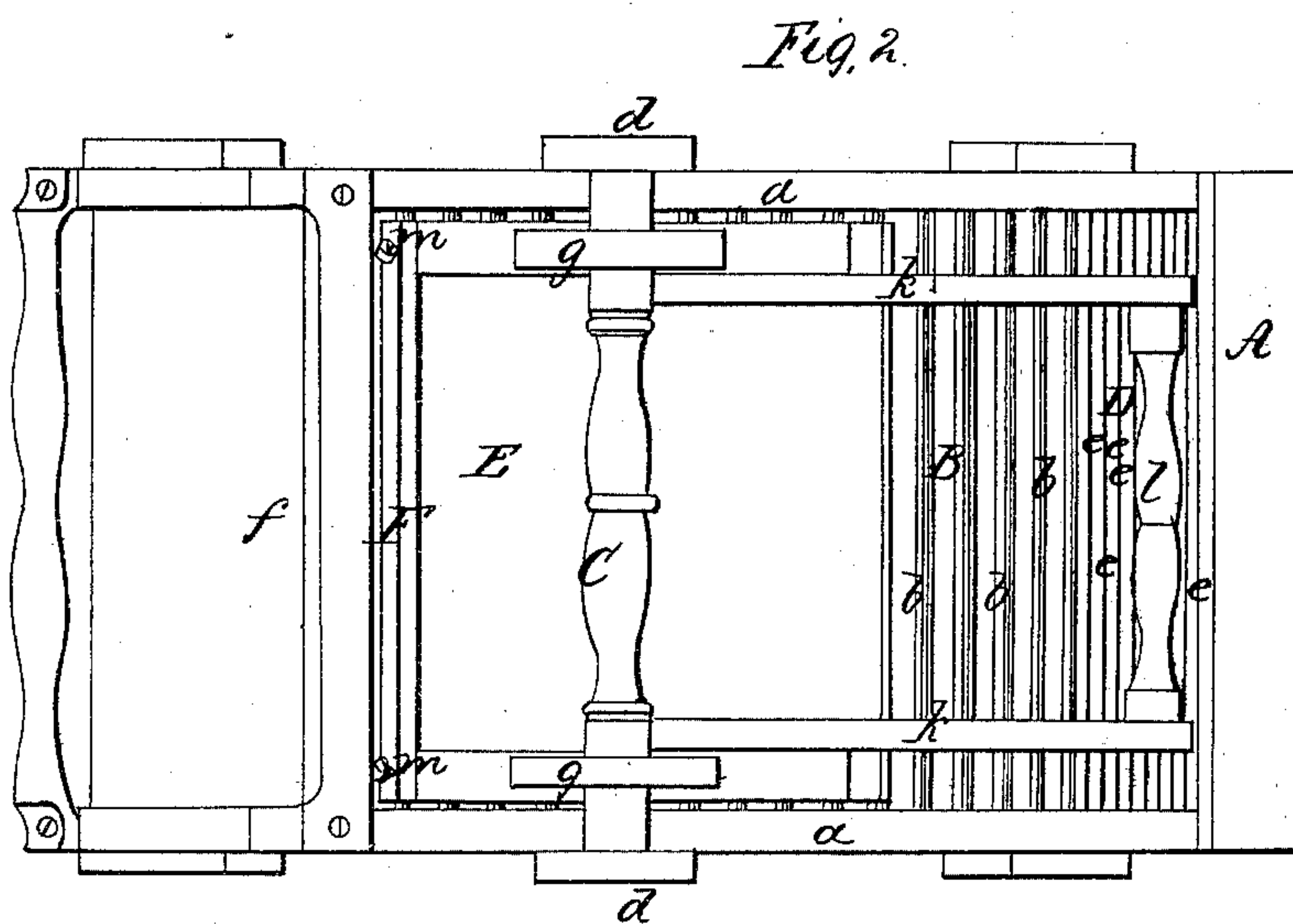
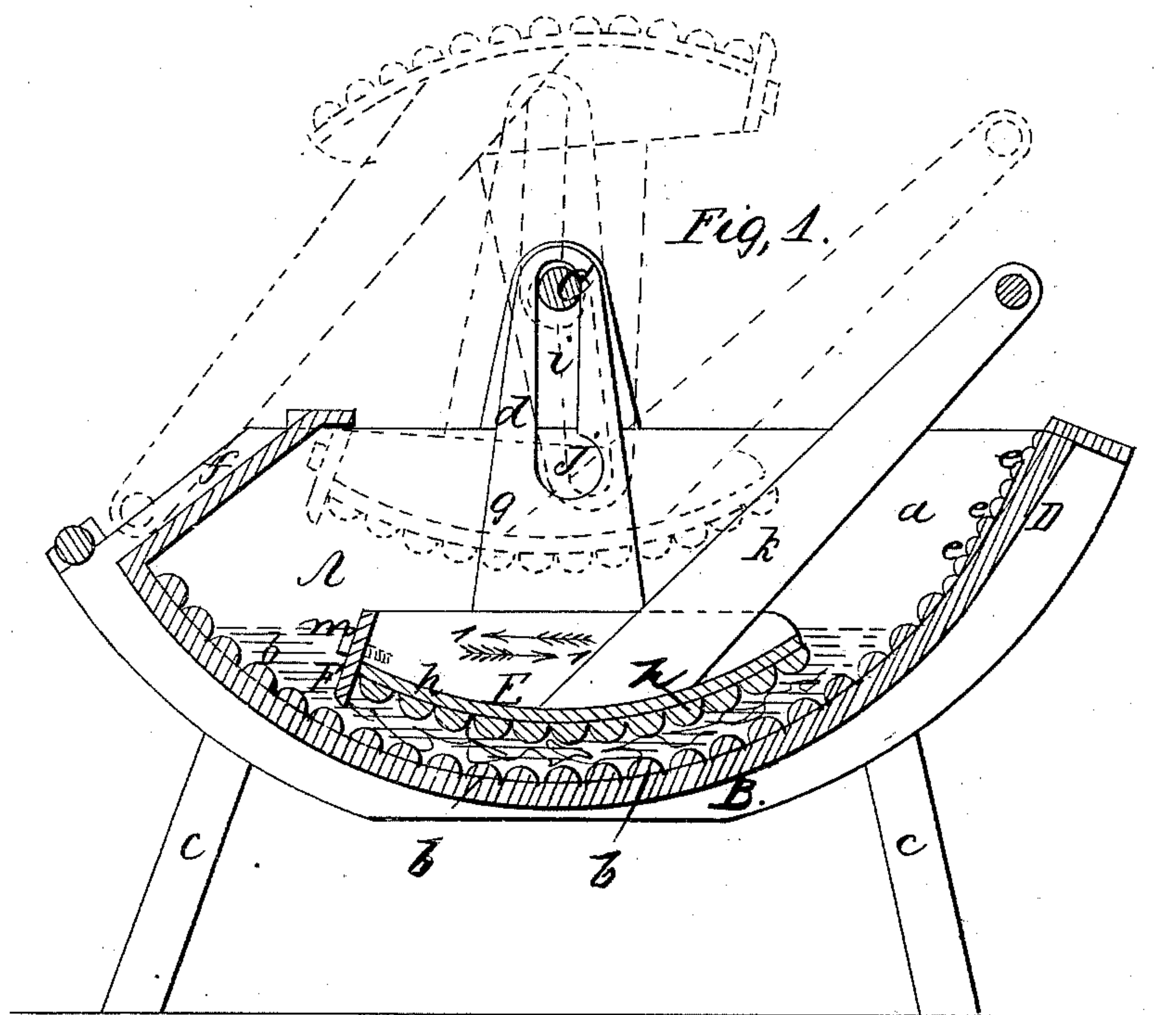


M. Van Auken,
Washing Machine,
No 20,230, Patented May 11, 1858.



UNITED STATES PATENT OFFICE.

MINER VAN AUKEN, OF CHAZY, NEW YORK.

WASHING-MACHINE.

Specification forming part of Letters Patent No. 20,230, dated May 11, 1858; Reissued June 28, 1859, No. 748.

To all whom it may concern:

Be it known that I, MINER VAN AUKEN, of Chazy, in the county of Clinton and State of New York, have invented a new and Improved Clothes-Washing Machine; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1, is a side sectional view of my improvement. Fig. 2, is a plan or top view of ditto.

Similar letters of reference indicate corresponding parts in the two figures.

The nature of my invention consists in providing an adjustable stop board at the rear end of the rubber, in combination with an oblong slot, in each of the pendulous arms of the rubber; whose lower termination is of scroll form; whereby the passage of the clothes behind the rubber during the washing operation is prevented, and thus the clothes are always kept wholly underneath the rubber; and whereby the rubber can be suspended above the clothes and have an axis to turn upon at the time when it is being swung to a proper rubbing position; and thus is avoided the catching against and forcing of the clothes, which may have been placed in the tub, toward the back board of the tub; thus it will be seen that while a stop is provided, no inconvenience is experienced therefrom. The peculiarity of the scroll slot also affords facilities for throwing the rubber up so that it may be completely inverted and still be sustained in that position.

To enable those skilled in the art to fully understand and construct my invention I will proceed to describe it.

A, represents a box having parallel sides (a) (a) and a concave bottom B, the inner surface of which is provided with transverse ribs or projections (b) of semi-cylindrical or other proper form placed at suitable distances apart to form a corrugated surface, see Fig. 1. The box A, is supported at a suitable height by legs (c) and an upright (d) is attached to each side (a) of the box, A, the upper ends of said uprights being connected by a stationary rod or shaft C.

The bottom B, of the box is a portion of a circle of which the axis of the shaft or rod C, is the center, and at the front end of

the box and adjoining the bottom B, a corrugated surface D, is formed by having transverse ribs or projections (e) attached of smaller width or diameter than those on the bottom B. The part or surface D, need not form a part of the same circle as B, but may be perfectly straight the ribs (e) being attached to a plane surface as plainly shown in Fig. 1. To the back end of the box A, an inclined board (f) is attached.

On the rod or shaft C two pendent bars (g) (g) are placed, and to the lower ends of these bars a curved rubber E, is attached. This rubber is formed by attaching a curved or segment board to the bars (g), (g), the curvature forming a portion of a smaller circle than B, but concentric with it. Transverse ribs or projections (h), (h), corresponding with the ribs (e) on the bottom B, are attached to the under or face side of E, as shown plainly in Fig. 1. The bars (g), (g), are slotted longitudinally at their upper ends as shown at (i) Fig. 1, and the rod or shaft C, passes through said slots. The slots (i), have each a semi-circular recess (j) formed at their lower ends and a little at one side as shown clearly in Fig. 1.

To the front end of the rubber E, two inclined bars (k) (k) are attached, said bars being connected at their outer ends by a cross piece (l) which serves as a handle. The bars (k), (k), project toward the front end of box A. To the back end of the rubber E, a board or strip F, is attached by set screws (m), (m), said set screws passing through slots in the strip or board whereby the same is rendered adjustable. The board or strip F, extends the whole width of the rubber and its lower edge projects below the surface of the rubber as shown clearly in Fig. 1.

The operation is as follows: The box A, is supplied with a requisite quantity of suds and the clothes G, are placed therein the rubber E, resting on the clothes. The operator then grasps the handle or cross piece (l) and moves the rubber E, back and forth as indicated by the arms 1, and the clothes G, are thereby subjected to a certain pressure and rubbing sufficient to deprive them in a reasonable time of the greater part of dirt they may have contained. The board or strip F, keeps the clothes G, always underneath the rubber, preventing them from working back and getting beyond its action, while in consequence of the relative position

of the bars (*h*), with the rubber *E*, a leverage power is obtained and the strength of the operator applied in the most advantageous manner. When the clothes have been
5 subjected a requisite time to the action of the rubber *E*, the operator raises it so that the recesses (*j*) at the lower part of the slots will catch over the shaft or rod *C*, and the rubber is turned over, bottom side up. This
10 position of the rubber allows the operator to handle the clothes, rendering every piece accessible and the operator may then rub by hand on the part *D*, which is merely an ordinary wash board, such parts of the
15 clothes as were not fully cleansed by the rubber *E*, such as the wristbands of shirts, &c., parts that always require much more labor than others, in order to be cleansed perfectly, and which if operated upon suffi-
20 ciently by the rubber *E*, to be cleansed,

would subject other portions to unnecessary wear. The hand rubbing and the work of the rubber *E*, may be done alternately until the clothes are perfectly cleansed.

I do not claim broadly an oscillating rubber fitted within a box provided with a concave bottom, for this is an old and well known device.

What I claim as my invention and desire to secure by Letters Patent, is— 30

The adjustable stop board *F*, arranged at the rear end of the rubber in combination with the scroll terminating slots *i*, *j*, in the pendulous arms of the rubber *E*, substantially as and for the purposes set forth.

MINER VAN AUKEN.

Witnesses:

WILLIAM BEDELL,
FREDERICK VAUGHAN.

[FIRST PRINTED 1911.]