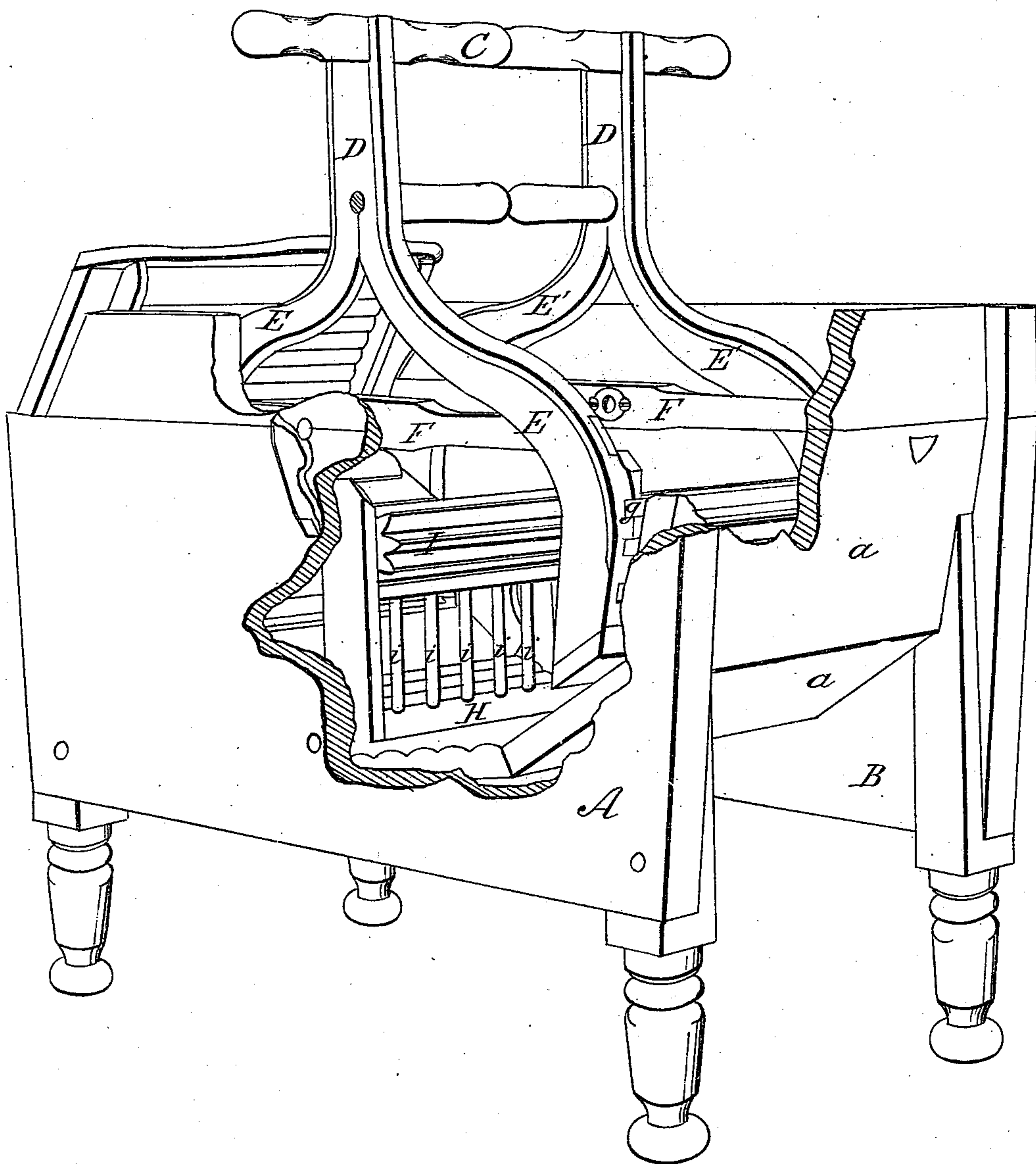


Sheet 1, 2 sheets.

*D. Smallwood*  
*Washing Mach.*

*N<sup>o</sup> 94,250.*

*Patented Aug. 31, 1869.*  
*Fig. 1.*



*Witnesses*

*H. P. R. Peek.*

*John M. Gilt.*

*Inventor*

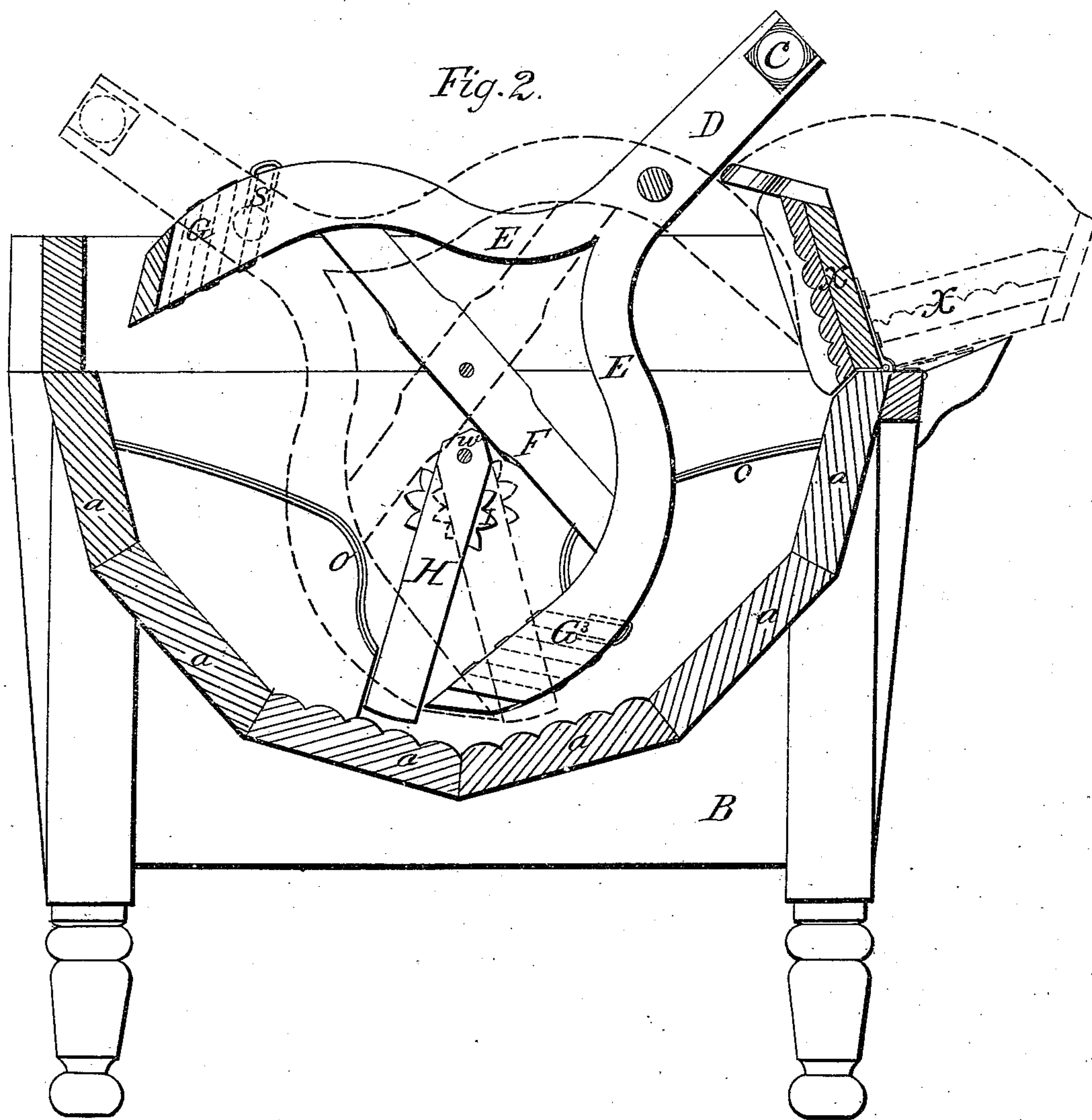
*Daniel Smallwood*

Sheet 2, 2 Sheets.

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Witnesses

H. P. K. Peck  
John W. Heilb.

Inventor

Daniel Smallwood.



# United States Patent Office.

DANIEL SMALLWOOD, OF MIDDLETOWN, OHIO.

Letters Patent No. 94,250, dated August 31, 1869.

## IMPROVED WASHING-MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern :*

Be it known that I, DANIEL SMALLWOOD, of Middletown, in Butler county, Ohio, have invented certain new and useful Improvements in Washing-Machines; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figure 1, of the drawings, represents a perspective view of my improved washing-machine with one of its sides broken away.

Figure 2 represents a side elevation of the same with one of the sides removed, to exhibit the working-parts.

My invention relates to certain improvements on the washing-machine patented by M. Huit.

The leading feature of my invention consists in the use of an oscillating or swinging partition or gate, which serves to cause the clothes to be turned over continuously by the action of the beaters.

The body of the machine consists of two sides, A B, supported upon four legs, and connected together by the end and bottom boards *a a*, which form an inverted "broken arch." These parts constitute the tub or receptacle in which the clothes are placed to be washed.

The handle C is secured upon the upper ends of the levers D D, which extend downward, and branch out in curved arms E E'.

Each pair of arms is connected by the tie F, which is provided with suitable boxes, to receive the short journal, which is also supported in boxes in the two sides A B.

The lower ends of the arms E E' are connected by the slats G, represented in dotted lines in fig. 2.

The swinging gate H is pivoted centrally between the two sides A B, and is made with the corrugated roller I and rounds *i i*, as seen in fig. 1.

The beaters are weighted with lead, secured upon the upper slat *s* of the same.

At one end of the tub there is hinged the corrugated washing-board, which is capable of adjustment, to serve the double function of a wash-board and an end-piece of the tub, as represented at *x*, fig. 2.

The swinging gate H is capable of moving, by the

action of the beaters, six inches, or three inches either way from the central line in which it is suspended. Its movement, however, is in the arc of a circle along the corrugated bottom of the tub.

The linings of the tub, denoted by the curved lines *o o*, serve also as stops, to determine the extent of the movement of the swinging gate as well as of the beaters.

The corrugated roller I serves to assist the gate H in causing the clothes to be continuously rolled over as the beaters press upon them, or strike them in their downward motion.

After a suds-water is placed in the machine, sufficient to fill the tub to the line of its gate-pivots *u*, a suitable quantity of clothes will be placed between the beaters at the end of the curved arms E E' and the gate H, and then the attendant will commence the operation of washing, by grasping the handle C and swinging the levers D, and consequently the arms E E' and beaters consisting of the slats G.

The beaters will act upon the clothes, pressing and beating them against the pivoted swinging gate H, which will effectually cleanse the clothes in a superior manner, without wearing or tearing them, as is often done by washing with machinery.

The beater-frames being suspended upon two short axles or journals, the central portion of the tub is unobstructed by a continuous axle, and thus space is afforded for conveniently supplying and removing the clothes to be washed.

Having fully described my improvements in washing-machines,

What I claim as my improvement, is—

The gate H, pivoted to swing with the corrugated roller I, in combination with beaters G and other devices in a washing-machine, as constructed and shown.

In testimony whereof, I have hereunto set my hand, this 9th day of April, 1869.

DANIEL SMALLWOOD.

Witnesses:

H. P. K. PECK,  
A. L. PECK.