

H. B. Tibbitts,

Washing Mach.

No. 87,731,

Patented Mar. 9, 1869.

Fig. 1.

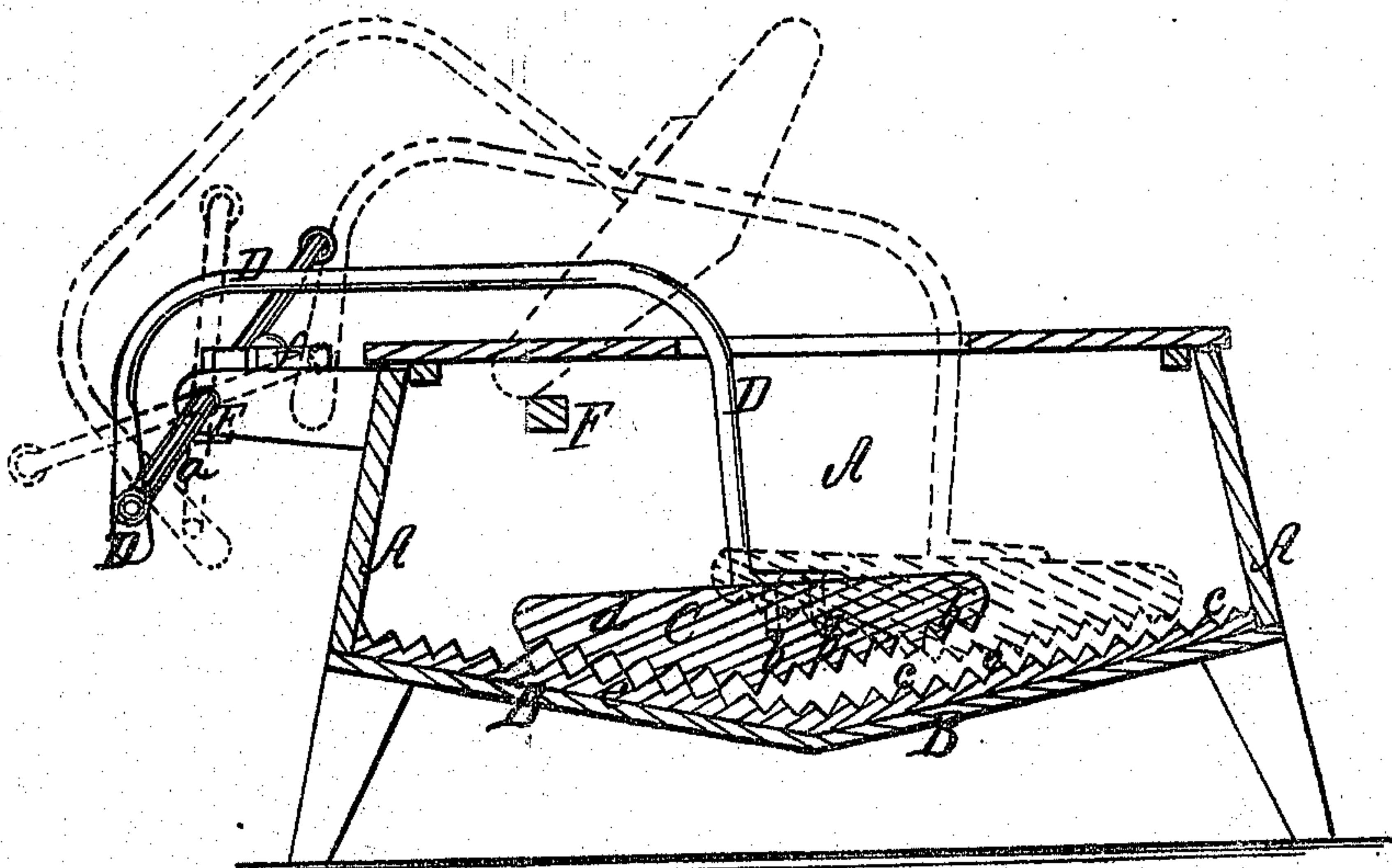
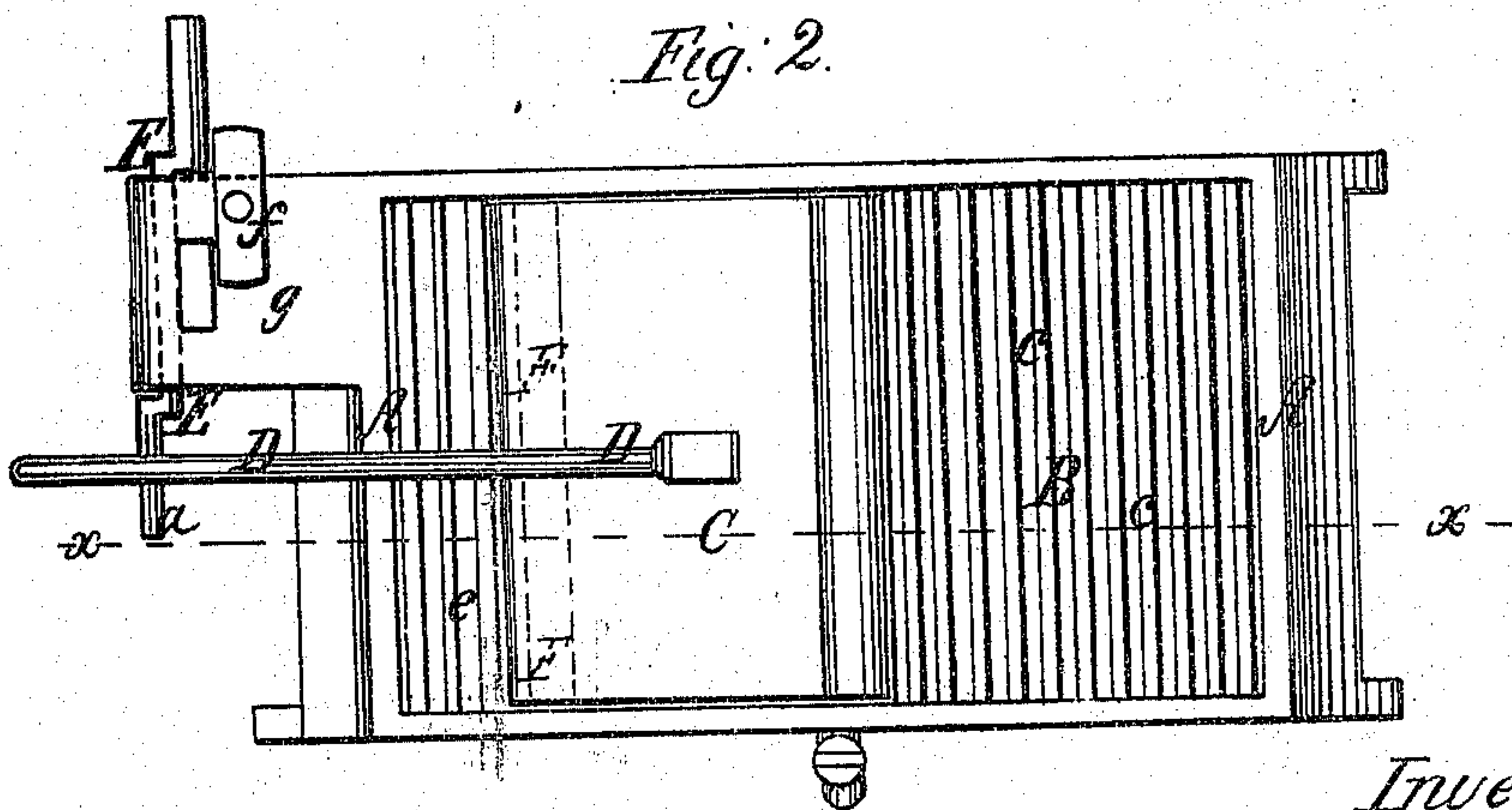


Fig. 2.



Witnesses;
Chas. Nida.
John H. Booth

Inventor;
H. B. Tibbitts
per *Wm. M. T. Co.*
Attorneys

United States Patent Office.

H. B. TIBBITS, OF VINELAND, NEW JERSEY.

Letters Patent No. 87,731, dated March 9, 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, H. B. TIBBITS, of Vineland, in the county of Cumberland, and State of New Jersey, have invented a new and improved Washing-Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a vertical longitudinal section of my improved washing-machine.

Figure 2 is a plan or top view of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new machine for washing clothes; and consists in the application of a rubber and box-bottom, of peculiar form and construction, whereby, when the requisite motion is imparted to the rubber, a combined rubbing and striking-action is produced.

The lower face of the rubber is V-shaped, and corrugated, or roughened.

The bottom of the suds-box is also V-shaped, and roughened, or corrugated.

The rubber working on it will be drawn from one inclined face of the bottom to the other, and will rub the clothes as it travels on each face, striking or pounding them, as it reaches the end of the stroke.

A, in the drawing, represents the suds-box of my improved washing-machine.

Its bottom, B, inclines from the two ends downward, toward the middle, so as to have a V-shaped cross-section, as is clearly shown in fig. 1.

The upper surface of the bottom, B, is corrugated, or roughened, as shown.

C is the rubber. It is considerably shorter than the box, but nearly of equal width.

Its under side is higher at the ends than in the middle, so as also to be V-shaped, as shown.

The rubber is rigidly secured to an inverted U-shaped

lever, or bar, D, which is, with its outer end, connected with the crank *a* of a shaft, E, that is hung on the outside of the box A. By revolving the crank, the rubber will be moved back and forth in the box.

When the rubber is at the outer end of its stroke, its surface, *b*, will be on the surface, *c*, of the bottom, as shown by red lines in fig. 1.

When drawn in, it moves on the surface *c*, and rubs the clothes placed thereon, and when at the end of its inward stroke, its surface, *d*, strikes the surface, *c*, of the bottom.

While moving outward, it will travel on the surface, *e*, and will rub the clothes thereon.

At the end of each stroke it will strike the opposite surface of the bottom, and will thereby pound the clothes.

It constantly draws the clothes toward the middle of the box, without crowding them, so as to hold them away from the ends.

A very quick and entirely successful operation will be produced by means of this machine.

When the rubber is to be held out of the way, it is placed upon a cross-bar, F, of the box, as indicated by dotted lines in fig. 1, a pivoted arm, *f*, secured to an extension of the box, being swung out, to arrest the crank, and to lock the rubber in this elevated position.

It will be noticed, that when thus elevated, the rubber stands inclined, to allow the suds to drop off its upper and lower sides.

Having thus described my invention,

I claim as new, and desire to secure by Letters Patent—

The combination of the horizontal rubber C and crank-shaft E, when connected together by the rigid connecting-rod D, all arranged and operating substantially as herein shown and described.

H. B. TIBBITS.

Witnesses:

J. B. COGGSWELL,
GEO. A. CHEEVER.