

John D. Swartz, Clothes-Washing-Mach.

72112

Fig:1.

PATENTED
DEC 10 1867

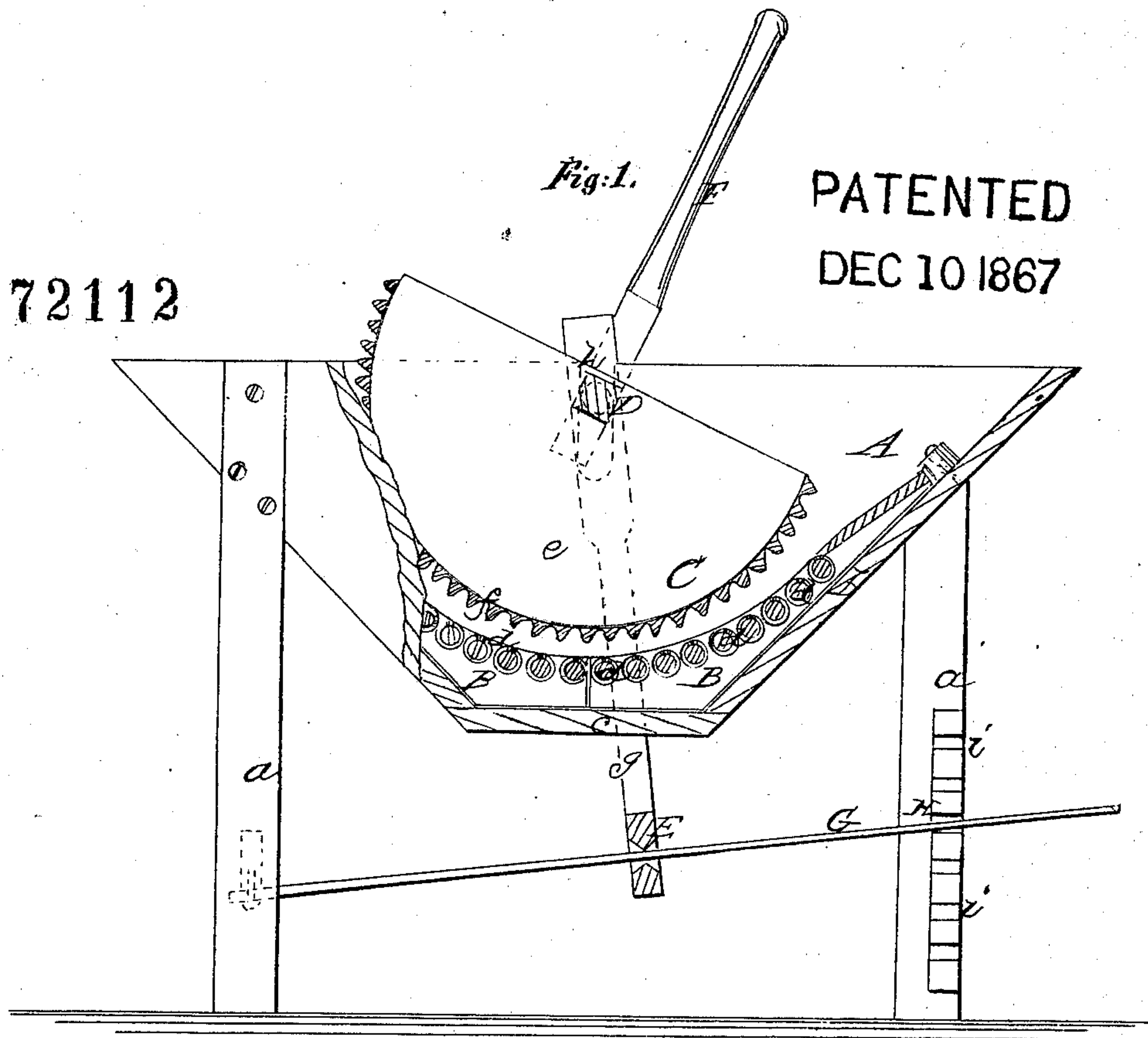
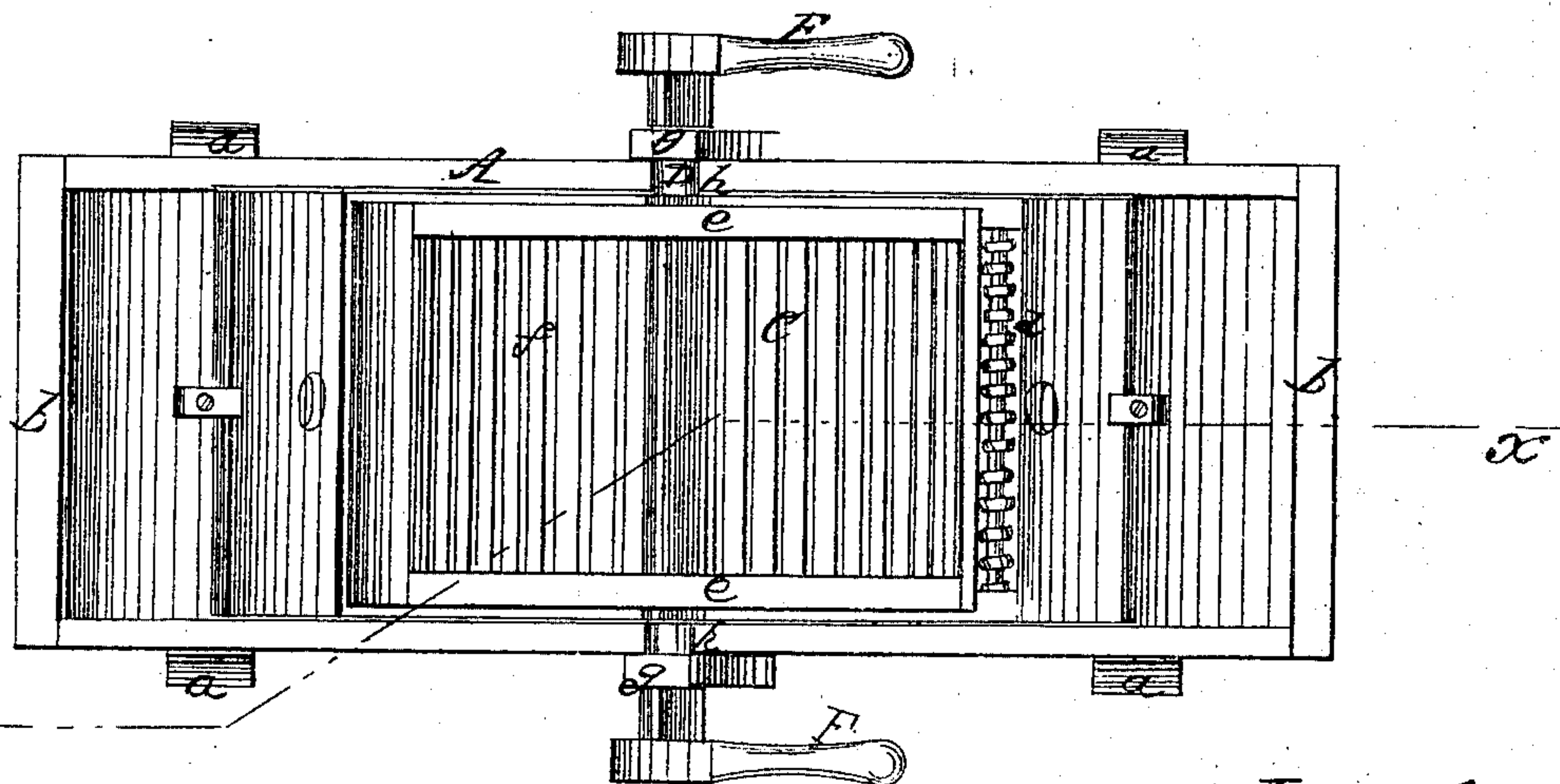


Fig:2.



Witnesses

Theo. Froche
Wm. Brown

Inventor

John D. Swartz
Per Munnell
Attorneys

United States Patent Office.

JOHN D. SWARTZ, OF MILTON, PENNSYLVANIA.

Letters Patent No. 72,112, dated December 10, 1867.

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, JOHN D. SWARTZ, of Milton, in the county of Northumberland, and State of Pennsylvania, have invented a new and Improved Clothes-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, and to the letters of reference marked thereon.

This invention relates to a new and improved clothes-washing machine, of that class which are provided with an oscillating rubber and a concave of rollers. In the accompanying sheet of drawings—

Figure 1 is a side sectional view of my invention.

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

Similar letters of reference indicate like parts.

A represents the suds-box of the machine, which is supported by four legs, *a*. The suds-box is provided with inclined ends, *b b*, and a short bottom, *c*, as shown clearly in fig. 1, and within the suds-box there are placed two frames, B B, which are provided with rollers *d*, the latter being fluted or grooved spirally. The frames B B are curved so that the rollers will form a concave. C represents the rubber, which is of semi-cylindrical form, having solid ends, *e e*, and a periphery composed of slats, *f*, nailed or otherwise secured to the ends *e e*. The slats *f* have spaces allowed between them, and the outer surfaces of the slats are bevelled in V-form, to make corrugated surfaces. This rubber is provided with a shaft, D, which has its bearings in the upper parts of uprights *g g*, at the outer side of the suds-box, the lower ends of said uprights being connected by a cross-bar, E. The shaft D is allowed to rise and fall freely in slots *h h*, in the sides of the suds-box, and on each end of the shaft there is placed a handle, F. G is a spring, which may be constructed of an elastic wooden bar, having one end attached to one of the legs, *a*, of the suds-box. This spring passes through a mortise in the cross-bar E. The opposite end of the spring G is fitted in one of a series of notches, *i*, in a bar, H, attached to a leg, *a*, and this spring, by having it adjusted in a higher or lower notch in bar H, regulates the pressure of the rubber on the clothes, which are subjected to the necessary rubbing and pressure between the rubber and the concave of rollers B B.

The rubber C is oscillated by actuating the handles F F.

The device is extremely simple and efficient, and will perform its work in a thorough manner.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent—

1. The slotted arms *g*, bearing the shaft D and rubber C, when such arms are connected at their lower ends by the slotted bar E, through which the spring G passes, as herein described for the purpose specified.
2. The combination of the semicircular rubber C, slotted arms *g*, shaft D, slotted cross-bar E, spirally-grooved rollers *d*, in the curved frames B, the spring G, and rack H, as herein described for the purpose specified.

JOHN D. SWARTZ.

Witnesses:

JAMES D. STRINE,
J. C. BALLIET.