

S. L. DENNEY.
 WASHING-MACHINE.

No. 177,061.

Fig 1.

Patented May 9, 1876.

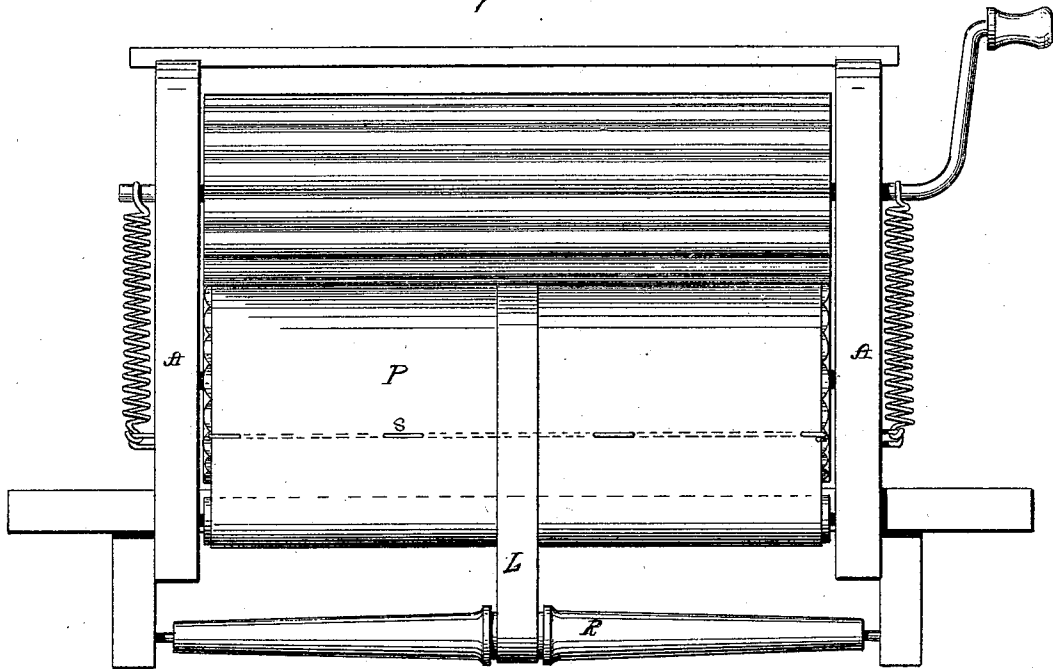
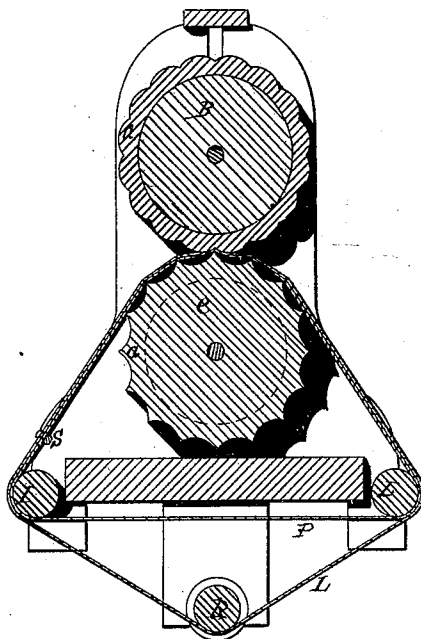


Fig 2.



Witnesses;
 Grenville Lewis
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UNITED STATES PATENT OFFICE

SAMUEL L. DENNEY, OF GAP, PENNSYLVANIA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. **177,061**, dated May 9, 1876; application filed February 23, 1876.

To all whom it may concern:

Be it known that I, SAMUEL L. DENNEY, of Gap, in the county of Lancaster and State of Pennsylvania, have invented certain new and useful Improvements in Washing-Machines; 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 which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to an improvement in washing-machines; and it consists in the arrangement and combination of devices that will be more fully described hereinafter, whereby the wide endless band is kept in position upon the roll, and the clothes kept from winding around the roller.

Figure 1 is a side elevation of my invention. Fig. 2 is a vertical section of the same.

A represents a suitable frame-work, in which the two rollers B C are journaled, and which is designed to be set down into the tub while being used. The two rollers B C are covered with rubber facings *a*, of any desired thickness, the facing of the upper roller having convex corrugations running its full length, while the facing of the lower roller has its surface indented with pockets, grooves, or recesses. As this roller C revolves, the pockets or recesses carry up air, which air is forced outward through the clothes by the upper roller, carrying the water and soiling substances with it. The wide band P, that passes around the rollers C, has a tendency to be constantly displaced by overlapping and climbing to the end of the roller, and requires constant attention to keep it in position. In order to over-

come this difficulty, a number of wires, S, are inserted into the band, as shown in Fig. 1, which pass in and out, and have their ends bent over the edges of the band. There should be just a sufficient number of these wires to so stiffen the band sidewise that it cannot overlap or climb toward the end of the roller. In order to prevent the clothes, and especially the finer articles, from sticking to the band, and being carried round and round with it, instead of dropping off into the water, a small narrow band, L, is passed around the band P, which band L is carried down around the roller R, considerably below the lowest portion of the band P, so as to pull off the articles as they descend downward into the water. The band L is kept in position at or near the center of the band P by the flanges on the roller R.

In my former patent, No. 166,266, dated August 3, 1875, pockets are shown in the lower roller for the purpose and object above explained; but, owing to defects in the wood, the air is apt to escape without serving its full purpose. By covering the roller with rubber, and making the pockets or recesses in it, the air is retained by means of the band P until forced out by the top roller directly through the clothes.

Having thus described my invention, I claim—

The combination of the rollers B C, covered with rubber facings *a*, formed as described, with the band P, wires S, and band L, substantially as set forth.

SAMUEL L. DENNEY.

Witnesses:

THOMAS C. CONNOLLY,
HENRY H. BURTON.