

S. L. DENNEY.
Washing-Machine.

No. 166,266.

Patented Aug. 3, 1875.

Fig. 1.

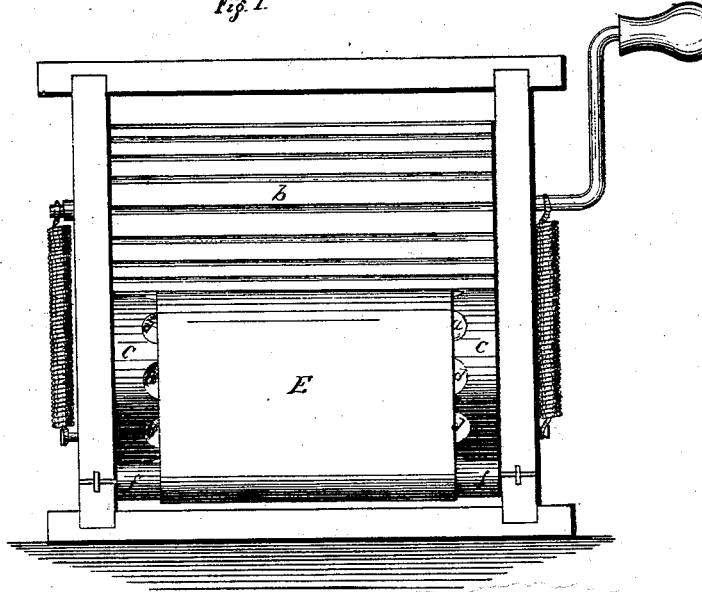
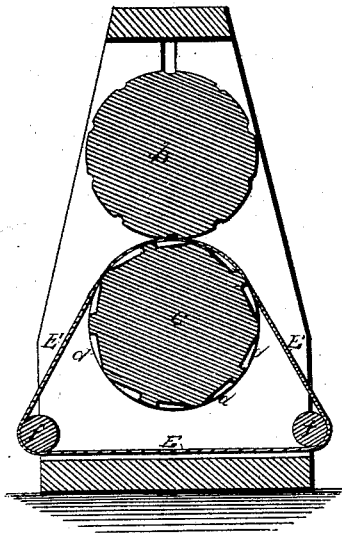


Fig. 2.



WITNESSES.

J. W. Garner
O. Lemon

INVENTOR.

Samuel L. Denney

UNITED STATES PATENT OFFICE.

SAMUEL L. DENNEY, OF GAP, PENNSYLVANIA.

IMPROVEMENT IN WASHING-MACHINES.

Specification forming part of Letters Patent No. 166,266, dated August 3, 1875; application filed June 1, 1875.

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 pertains 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.

This invention relates to that class of machines known as the roller washing-machine; and its peculiarity consists in the form of the under washing-roller *c*, and the arrangement of the endless band *e* and rollers *f f*.

Figure 1 is a side elevation, and Fig. 2 is a vertical cross-section.

Roller *c* is formed with channels *d d*, extending nearly the whole length of the roll, only a short space being left at the ends to prevent the corrugations on the top roller *b* from entering but slightly in the channels *d d*. Channels *d d* are formed with each alternate one having its shallowest depth in the direction of the revolution of the roll as the clothes are being drawn in, thereby giving to the roller greater capacity to carry water up to the point of compression between rollers *c* and *b*, where it is forced through the clothes, carrying off the extraneous matter with it. To more effectually convey the water along with the clothes from the tub to the rollers *c* and *b*, I have arranged the endless band *e*, which passes around the large roller *c* and small rollers *f f*, which are placed in a position to give the band considerable of an inclination in its course upward from the small to the large roller, over which it passes, and from which it receives its motion. This inclined position of the endless

band *e*, besides serving as a conveyer in aiding the clothes in elevating the water to the rollers to facilitate the operation of cleansing them, serves other important purposes, which adds very great value to this form of washing-machine, as by giving considerable inclination to the band the clothes can be passed beyond the point of compression of the rollers, thereby cleansing the articles out to their extreme ends. The pressure of the rollers, as they pass between them, causes the clothes to adhere so closely to the band as not to drop off into the tub, but are carried back between the rolls as the motion of the crank is reversed, thereby greatly facilitating the operation of washing.

Where an endless band is not arranged with this inclined position, the clothes, as soon as free from the bite of the rolls, drop down into the tub, to be taken up and re-entered between the rolls again. In entering the clothes between the rollers this machine has great advantage over those not so arranged, as it is only necessary to wet and press the ends of the articles to be washed against the band, where they adhere, to be conveyed in by the revolution of the rolls, without the necessity of placing the fingers where they are liable to be caught and injured by the rolls in the act of entering the clothes.

I claim as my invention—

The combination of the roller *c*, having channels *d d*, rollers *f f*, endless band *e*, and roller *b*, as and for the purpose specified.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

SAMUEL L. DENNEY.

Witnesses:

J. WILLIAM GARNER,
C. W. LEMON.