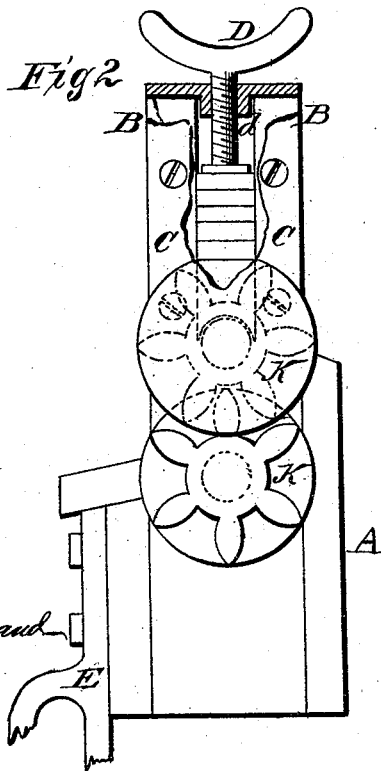
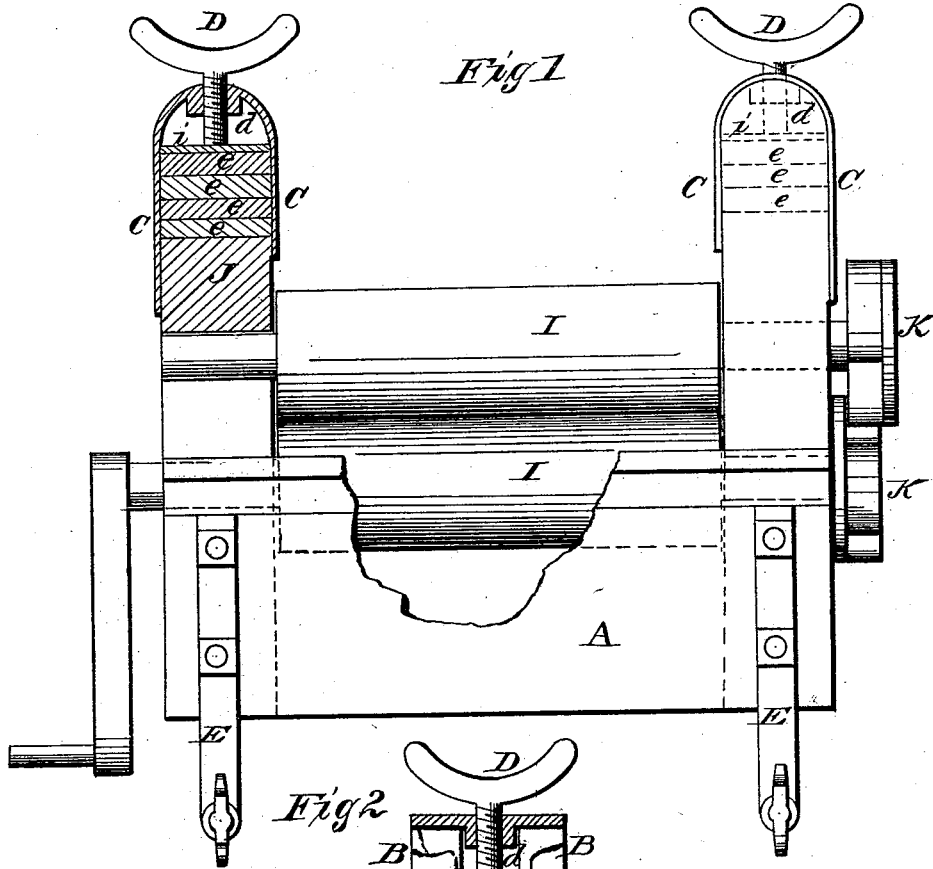


C. A. MALLORY.
WRINGER AND MANGLE.

No. 188,387.

Patented March 13, 1877.



WITNESSES
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UNITED STATES PATENT OFFICE.

CHARLES A. MALLORY, OF OSHAWA, ONTARIO, CANADA.

IMPROVEMENT IN WRINGERS AND MANGLES.

Specification forming part of Letters Patent No. 188,387, dated March 13, 1877; application filed February 19, 1877.

To all whom it may concern:

Be it known that I, CHAS. A. MALLORY, of Oshawa, in the Province of Ontario, and in the Dominion of Canada, have invented certain new and useful Improvements in Wringing and Mangling Machines; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction of certain portions of a wringer, the peculiarities of which will be hereinafter described.

In the accompanying drawings, making part of this specification, Figure 1 represents a side, and Fig. 2 an end, view, both partially in section.

In the figures, A represents the frame of the wringer, which, in general construction, is very similar to those in ordinary use. E E represent the clamps for securing the frame to the wash-tub. I I represent the rollers, which may be made either of wood or of rubber, or other suitable material, as the machine may be used as a mangle, as well as for a wringer. J represents the bearing-block for the upper roller, which is the yielding one. B B represent the two portions of the uprights, between which the bearing-blocks are held. These two portions B B are capped by a metallic band, C, which is thickened, as seen at *d*, so that a screw-thread may be made in it to contain the screw-bolt D. The inner end of the bolt rests upon an iron plate, *i*, and between this and the bearing-block are placed pieces of rubber, *e e*, as represented, in order to allow the rollers to separate to accommodate themselves to different thicknesses of clothing. The rollers are provided with the gear-wheels K K, so

they may be compelled to move together. This machine is provided with a suitable handle, and is used with a wash-tub or for a mangle, in the usual manner.

I am aware that it is not new to insert rubbers in hollow uprights between the bearing-blocks of the upper roller and an operating tension-screw for the purpose of enabling the rollers to separate or yield, according to the thickness of clothing that is passed between them, and I do not, therefore, claim this construction, broadly; but, by hollowing or recessing the uprights, whether these are made of wood or cast-iron, they are weakened to a considerable extent, while, at the same time, access to the rubber, which sometimes requires renewal, is made difficult. By my improvement, the curved plates C C serve the double purpose of covering and protecting the rubbers *e e* and of bracing the uprights upon which they are affixed, while, at the same time, they may be readily removed by the aid of a screw-driver, whenever it is desired to renew one or more pieces of the rubber.

Having thus described my improvement, I claim and desire to secure by Letters Patent of the United States—

The bent covering and bracing plates C C, having an inwardly-projecting shoulder, *d*, directly below the bent part, in combination with the recessed posts B B, bearing-blocks J, rubbers *e*, plate *i*, and tension-screw D, substantially as and for the purpose hereinbefore set forth.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 2d day of May, 1876.

CHARLES A. MALLORY. [L. S.]

Witnesses:

R. MCGEE,
C. A. JONES.