

J. JOHNSON.
Mangles.

No. 166,108.

Patented July 27, 1875.

Fig. 1.

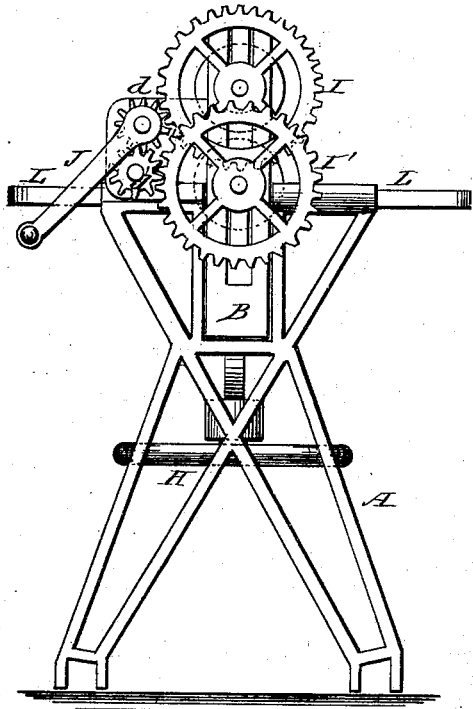


Fig. 2.

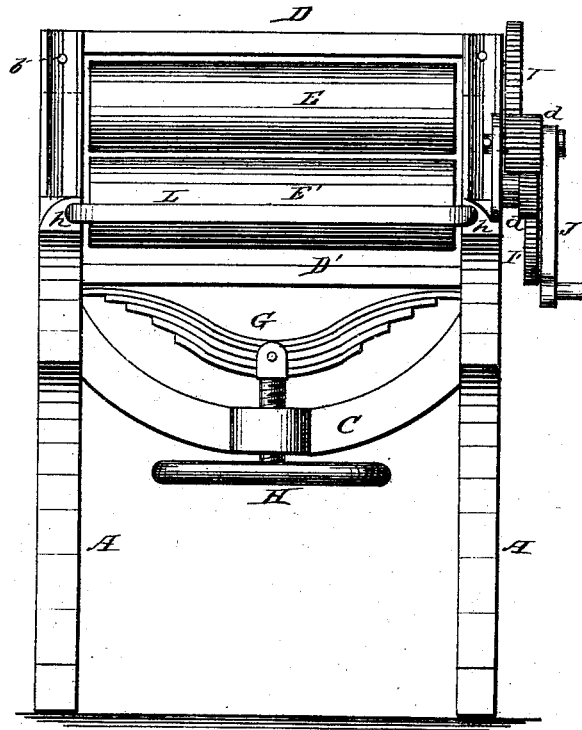
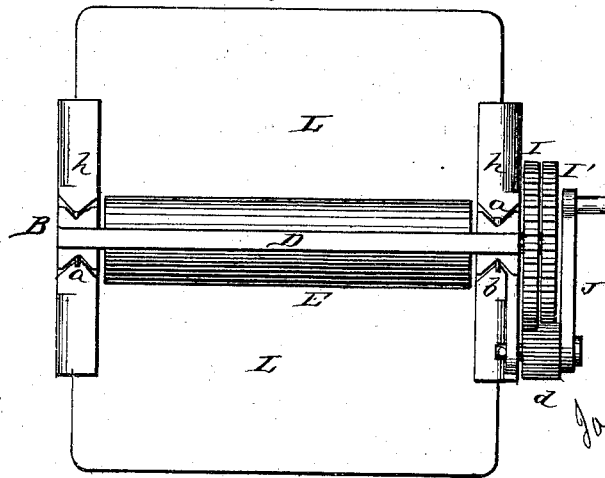


Fig. 3.



WITNESSES:

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JOSEF JOHNSON, OF NEW YORK, N. Y., ASSIGNOR TO METROPOLITAN WASHING-MACHINE COMPANY, OF MIDDLEFIELD, CONNECTICUT.

IMPROVEMENT IN MANGLES.

Specification forming part of Letters Patent No. **166,108**, dated July 27, 1875; application filed July 1, 1875.

To all whom it may concern:

Be it known that I, JOSEF JOHNSON, of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Clothes-Mangles; and I 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, which form part of this specification.

The nature of my invention consists in the construction and arrangement of a clothes-mangle, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side elevation of my clothes-mangle. Fig. 2 is a front view of the same; and Fig. 3, a plan view.

A B represent two side standards, constructed substantially in the form shown, and each standard or side piece formed with a vertical slot or groove from the top downward for a suitable distance. The sides of these slots are made V-shaped, as shown at *a*, in Fig. 3, to enter correspondingly-shaped grooves in standards B B, which are inserted in said slots. The standards B B are connected at their lower ends by means of a downwardly-curved bar, C, and in the upper ends is inserted a bar, D, which is fastened by means of pins *b b*. The ends of the bar D extend downward into vertical slots in the standards B B, and form upper bearings against the journals of the upper roll E. The journals of the lower roll E' are inserted in the same slots, and supported upon the ends of a similar bar, D', and this is supported upon a leaf-spring, G, having its ends inserted in the lower ends of said slots in the standards. The tension of the spring G is regulated

by means of a set-screw, H, passing upward through the center of a curved bar, C, and operating under the center of the spring. On one journal of the upper roll E is secured a cog-wheel, I, which meshes with an elongated pinion, *d*, mounted upon a stud on the standard, and provided with a crank, J. The pinion *d* gears with an idle pinion, *d'*, which is also mounted upon a stud on the standard. This latter pinion *d'* meshes with a cog-wheel, I', secured on the projecting journal of the roll E', said journal extending sufficiently far to allow the cog-wheel I' to overlap the cog-wheel I of the upper roll, as shown in Fig. 1.

It will readily be seen that by this construction of the gearing the rolls may separate a considerable distance without any danger of being thrown out of gear.

As the clothes are passed through between the rolls to be mangled, the lower roll yields according to the thickness of the material passing between them.

The side pieces A A are on both sides of the machine provided with horizontally-grooved projections or arms *h h*, for the insertion of the tables L.

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

A clothes-mangle, consisting of rollers E E', standards A B, with their horizontal grooves *h h*, and vertical grooves *a a*, tables L, bars C D D', springs G, pinions *d d'*, and cog-wheels I I', all constructed and arranged to operate as set forth.

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

May 28, 1875.

JOSEF JOHNSON.

Witnesses:

H. E. B. DENNISON,
I. E. DOWD.