W. Price,

Mangle.

No. 45,938. Patented Jan. 17, 1865.

Fig. 1.

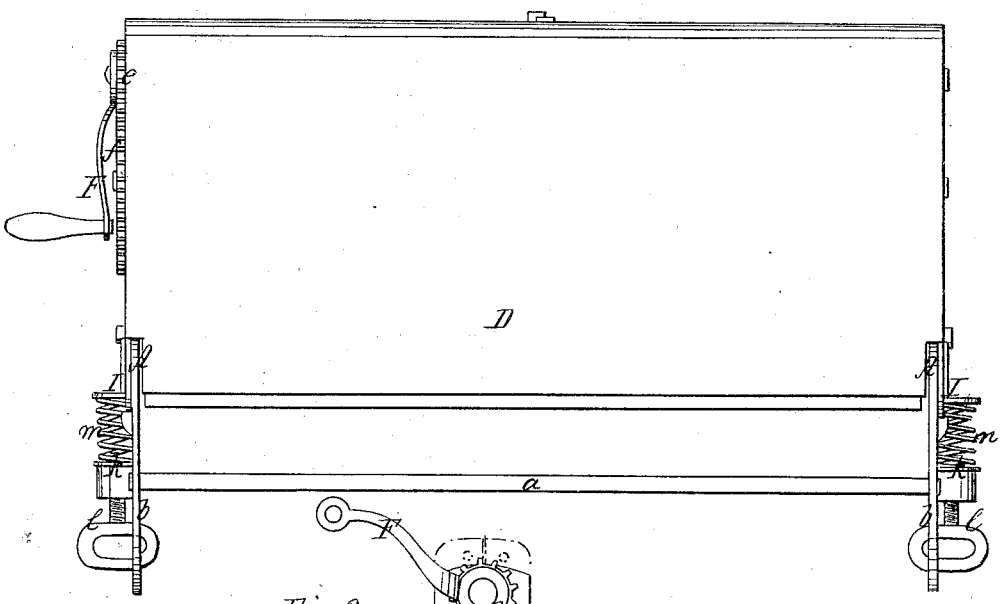
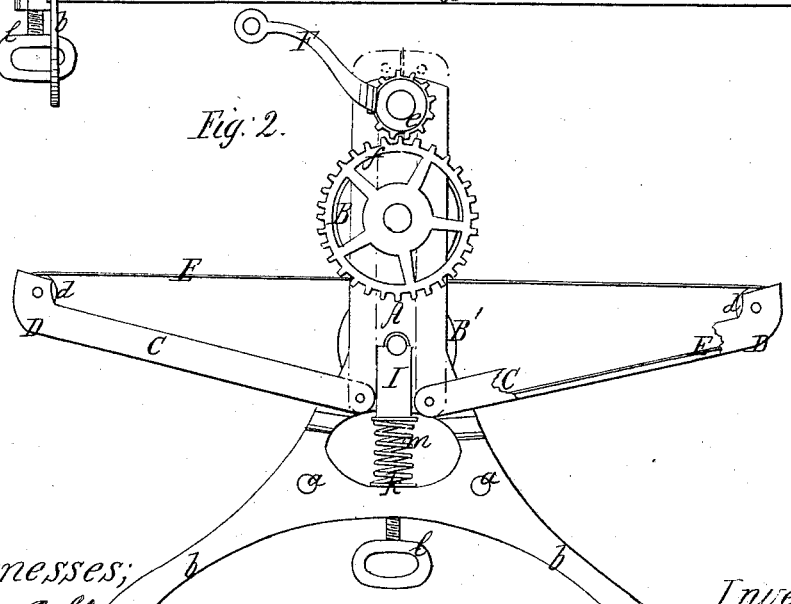


Fig. 2.



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UNITED STATES PATENT OFFICE.

WILLIAM PRICE, OF CINCINNATI, OHIO.

IMPROVED MANGLE.

Specification forming part of Letters Patent No. **45,938**, dated January 17, 1865.

To all whom it may concern:

Be it known that I, WILLIAM PRICE, of the city of Cincinnati, in the county of Hamilton, State of Ohio, have invented new and useful improvements in a mangle or machine for smoothing and pressing linen—such as sheets, pillow-cases, table-cloths, towels, &c.; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a side view of the machine when closed up, the working parts being protected from the dust. Fig. 2 shows an end view of the mangle or machine spread open for use, and closed up in red lines.

The object of my invention is to supply the community with a portable, convenient, and efficient mangle or implement for smoothing bed and table linen, and for such other articles to which it is adapted that require washing and ironing frequently when in use.

My invention consists in incasing the working parts of a clothes-mangle with a metallic case, the same forming the supports for a table or apron to guide the articles on a plane between the pressure-rollers when open for use, and close up to keep all of the working parts clear and free from dust when not in use.

My invention further consists in the combination of the several parts forming the device for adjusting the pressure-rollers hereinafter described.

To enable others skilled in the art to make and use my improved mangle or smoothing implement, I will describe it more fully, referring to the drawings and to the letters marked thereon.

The frames A A may be made of metal, cast from one pattern, both ends being alike, they being connected together by rods of round iron *a a* of such length as to give any desired distance between the frames for the length of the pressing or mangling rollers B B′. The legs of the frames *b b* are spread widely apart, so as to give the machine a broad base for standing firmly upon a table to be operated. Just above the legs *b b* of the frames, on both sides of the rollers, are hinged arms C C, which are made to serve the purpose of ends for the cover or case D D to close up and incase the presser-rollers B B′ of the mangle when not in use. The arms C C also serve the purpose of bearings for the journals of the rollers *d d*, which, when spread out for use, tighten the endless apron E by their weight, and keep it stretched out smooth and even, so that the apron forms an efficient, suitable, and yielding table on to spread or fold up the fabrics to be pressed and feeds them in between the mangle-rollers B B′, and carries them through in a direct line on the plane between the rollers, so that they may be passed alternately back and forth a number of times, if desired, without handling. The movable apron E, which forms the table or support for the fabrics as they are being smoothed by the rollers B B′ may be made of vulcanized india-rubber cloth, and when it is of considerable substance, or the top roller covered with elastic rubber, shirts and other garments having buttons on may be passed through and nicely smoothed without injury or breaking the buttons. The mangle-rollers may be made of metal turned off smooth. They may be made hollow and heated by putting in ignited coals, and thus iron as smoothly as can be done by the old process of sad-irons. Bed and table linen are better prepared for use with an efficient mangle or calender-rollers than by the old slow, laborious, and heating process of ironing. The top roller, B, turns in fixed bearings in the upright frames A A, and is driven in the right direction by the crank F, to which is attached a pinion, *e*, meshing into a gear-wheel, *f*, on the end of the top roller-shaft. The under roller journals rest in movable boxes I I, which are supported on spiral springs *m m*, they resting on plate-sockets *k k*, into which set-screws *l l* are fitted, so that the tension of the spring and pressure of the rollers are easily adjusted.

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

Incasing the working parts of a mangle, the case being so constructed and hinged as to let down and form the support for guiding the articles in a line between the pressing-rollers, and fold up and close together so as to protect the working parts when not in use, substantially as herein specified.

WILLIAM PRICE.

Witnesses:

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