

HENRY TREGELLAS. Improvement in Mangles.

No. 118,654.

Patented Aug. 29, 1871.

Fig. 1.

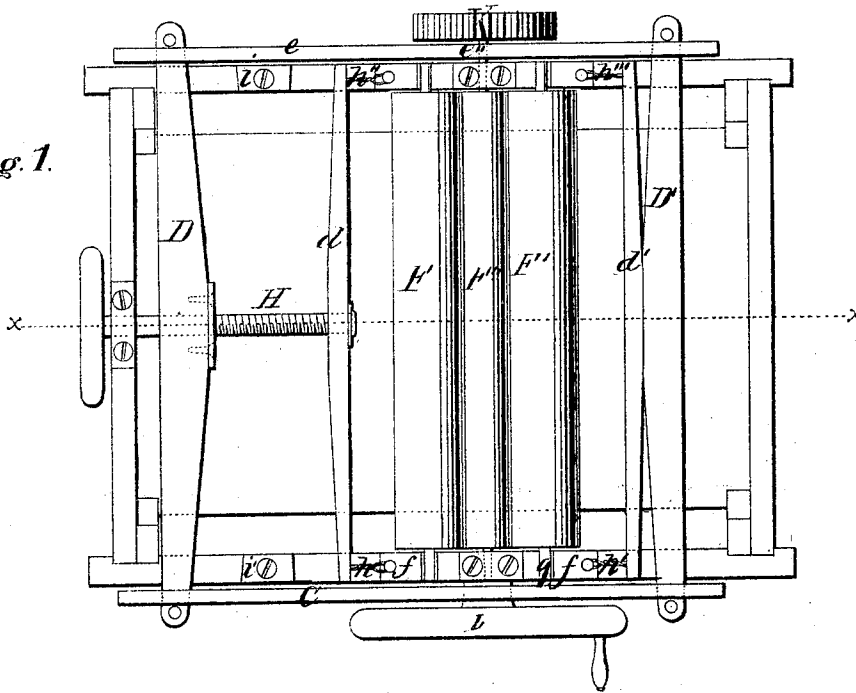
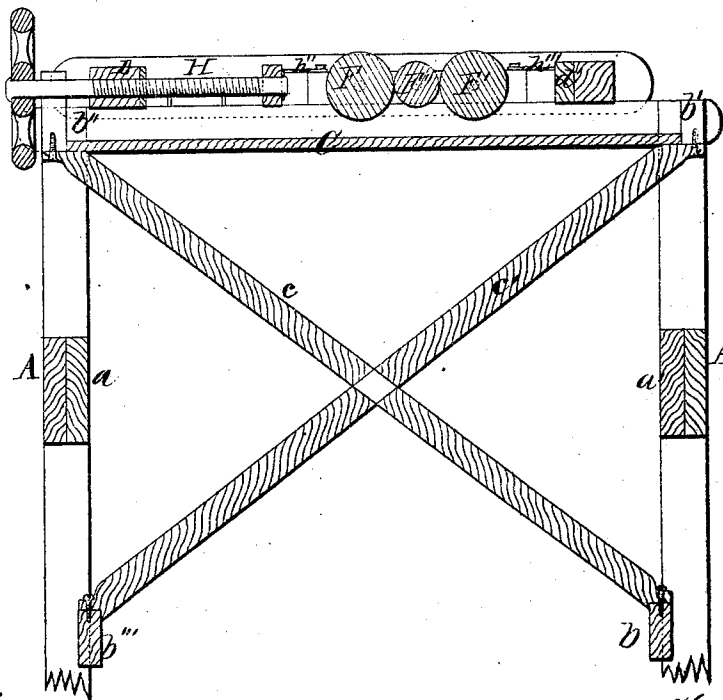


Fig. 2.



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UNITED STATES PATENT OFFICE.

HENRY TREGELLAS, OF CALUMET, MICHIGAN.

IMPROVEMENT IN MANGLES.

Specification forming part of Letters Patent No. 118,654, dated August 29, 1871.

To all whom it may concern:

Be it known that I, HENRY TREGELLAS, of Calumet, in the county of Houghton and State of Michigan, have invented a new and valuable Improvement in Mangles; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a top view of my invention. Fig. 2 is a central vertical longitudinal section through the line *x x*.

This invention has relation to machines for ironing or smoothing cloth, clothes, and the like, known as mangles or calenders; and it consists in an improved device for that purpose, simple in construction, easily managed, and effectual in operation.

A and A' represent corresponding inclined end legs of the frame. These legs are crossed by like corresponding legs at *a* and *a'*, and the four legs are braced by end braces *b*, *b'*, *b''*, and *b'''*, and by longitudinal braces *c* and *c'*. This frame supports a floor, C, as shown, and the whole supports the machinery and the goods to be smoothed at a convenient height. D and D' represent end blocks, shaped, as shown, for adaptation to pressure upon the middle portion of the springs *d* and *d'*, respectively. These blocks are connected at the ends by side pieces *e* and *e'*, keyed together, as shown, and the whole forms an upper frame resting upon the lower frame, and connected to it by clips attached to the under side of the end blocks. F and F' are smooth-faced rollers of equal size, placed on opposite sides of a smaller roller, F''. These rollers are supported in bearings *f*, *f'*, and *f''*, within the upper frame, and on the lower frame, as represented, the bearings for the larger and outer rollers being so formed that the rollers may be easily taken out, as at *g*, that

the material to be smoothed may be easily wound on them. These bearings are connected to the lower frame by clips and to the ends of the springs *d* and *d'* by links, so as to move backward and forward as the spring *d* or the upper frame is moved, the side piece *e* being slotted at *e''* to allow of such motion of the frame. Rubber blocks or springs *h*, *h'*, *h''*, and *h'''*, are placed between the ends of the journal-boxes and the ends of the springs to afford a yielding motion to the rollers on account of irregularities in the material formed by folds and the like, and the spring *d* is provided with a screw, H, having bearings in the end block D and on the lower frame, and a wheel-head for the purpose of tightening and loosening the rollers, as occasion may require. By the aid of stops *i* and *i'* on the lower frame the screw operates with like force on both of the large rollers. The central roller F'' is operated by means of the cog-wheel K on its journal, pinion-wheel *k* on the shaft *k'*, and crank-wheel L, all as shown. The roller F'' may be covered with some suitable material, as canvas, to prevent slipping. Motion is communicated from the roller F'' to the rollers F and F'.

I claim as my invention—

1. In a mangle, the combination, with the fixed central roller F'', of the slotted adjustable frame D *e* D' *e'*, screw H, springs *d* *d'*, and side rollers F F', substantially as specified.

2. In a mangle, the combination, with the sliding journal-seats *f* *f'*, of the transverse spring *d* and the rubber cushions *h* *h''*, substantially as and for the purpose described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

HENRY TREGELLAS.

Witnesses:

JOSIAH TREGELLAS,
FRANCIS WARD.