

(No Model.)

F. J. ROST.
Clothes Mangle

No. 230,719.

Patented Aug. 3, 1880.

Fig. 1.

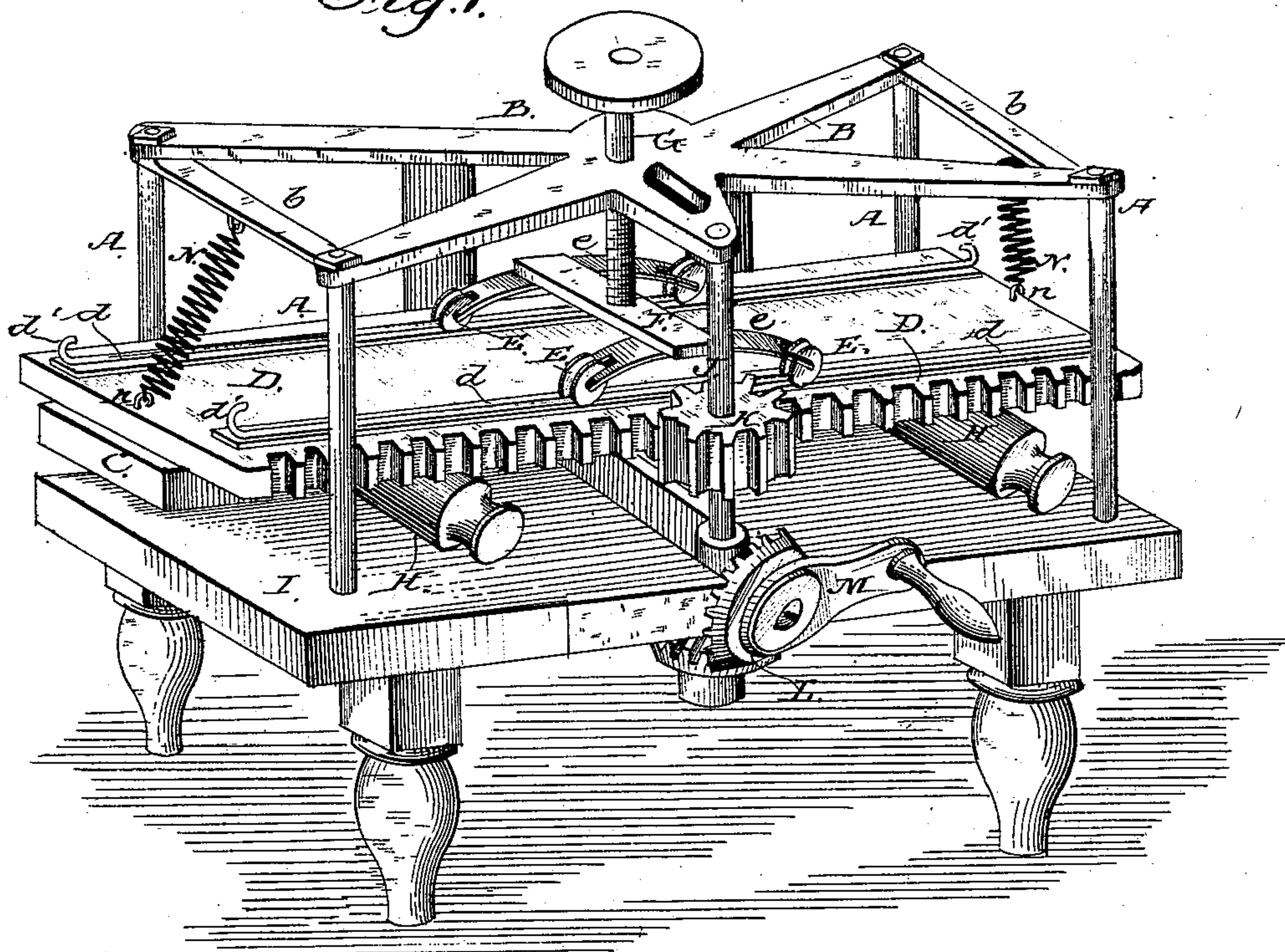
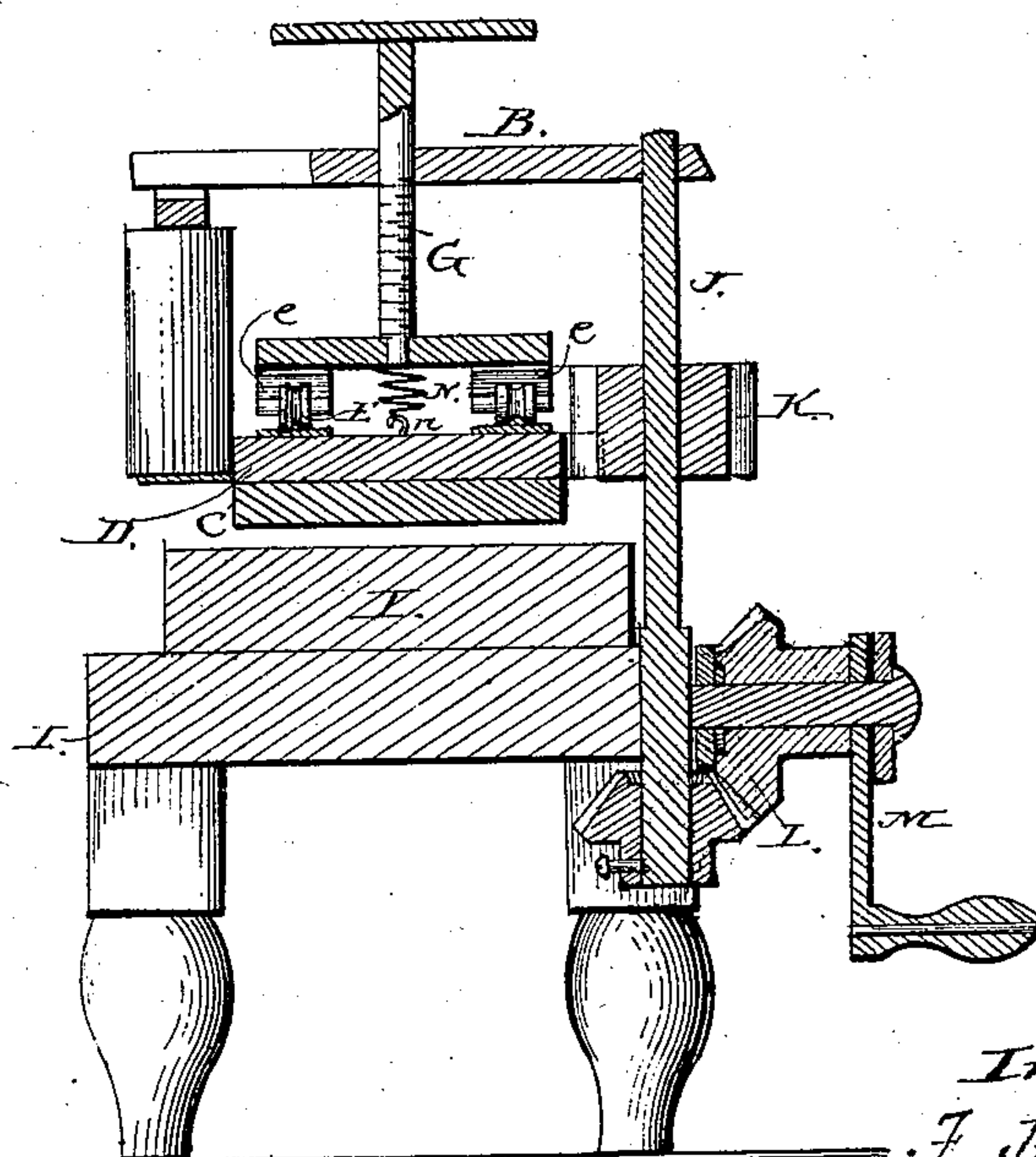


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

F. JULIUS ROST, OF MILWAUKEE, WISCONSIN, ASSIGNOR OF ONE-HALF OF HIS RIGHT TO ANTON HAUSLER, OF SAME PLACE.

CLOTHES-MANGLE.

SPECIFICATION forming part of Letters Patent No. 230,719, dated August 3, 1880.

Application filed May 4, 1880. (No model.)

To all whom it may concern:

Be it known that I, F. JULIUS ROST, of Milwaukee, Wisconsin, have invented certain new and useful Improvements in Clothes-Mangles; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, and in which—

Figure 1 is a perspective view of a mangle with my improvements attached. Fig. 2 is a vertical section of the same.

My invention relates to mangles for smoothing clothes by means of rollers; and it consists in the several combinations of devices hereinafter described and claimed.

To enable others skilled in the art to make and use my invention, I will proceed to describe the exact manner in which I have carried it out.

In the drawings, A represents the frame of the mangle, held together by a metal cross-tie, B, cast in one piece, as shown in Fig. 1. This cross-tie thus cast integral with the cross-bars *b b* gives great strength and rigidity to the mangle and holds all the operating machinery in its proper lines.

To the table or pressure-plate C is secured the toothed plate D, on which are placed the rails *d d*, over which run the grooved wheels E journaled in the springs *ee*. These springs are secured to the cross-plate F, on which presses the regulating-screw G. This screw passes through the female screw in the center of the cross-tie B, and bearing on the springs *ee* gives the desired pressure on the table or pressure-plate C, which presses on the rollers H resting on the bed or foot-plate I.

At each end of the rails *d d* are secured the stops *d' d'*, which, coming in contact with the grooved wheels E, arrest the movements of the table or pressure-plate C and prevent the

plate from passing beyond the action of the springs *ee*.

On the central vertical shaft J is secured the high cog-wheel K, meshing with the toothed plate D, and causing the said plate and the pressure-plate C to travel back and forth over the bed or foot-plate I, by means of the bevel-gearing L and crank M, as shown in Fig. 1. In order to secure the toothed plate D against the possibility of ungearing as it rises or falls from the change in the thickness of cloth around the rollers H, I make the cog-wheel of more than double the thickness of the toothed plate D, thus giving ample vertical play to the pressure-plate C, to avoid ungearing.

On each of the cross-bars *b b*, I secure a small coiled spring, N, which can be readily attached at its other end to the hook *n* on the end of the toothed plate D. It is evident by attaching one of these springs N to a hook, *n*, and moving the toothed plate D in that direction, the tendency of the spring will be to elevate the end of the pressure-plate C and release the roll, which can be readily removed and another substituted when desired.

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

1. The pressure-plate C, secured to the reciprocating and toothed plate D, in combination with the rails *d d*, springs *ee*, grooved wheels E, and regulating-screw G, all constructed and arranged to operate substantially as and for the purpose set forth.

2. The springs N, in combination with the reciprocating toothed plate D, provided with the hook *n*, the rollers H, and pinion K, substantially as and for the purpose set forth.

F. JULIUS ROST.

Witnesses:

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