

No. 679,407.

Patented July 30, 1901.

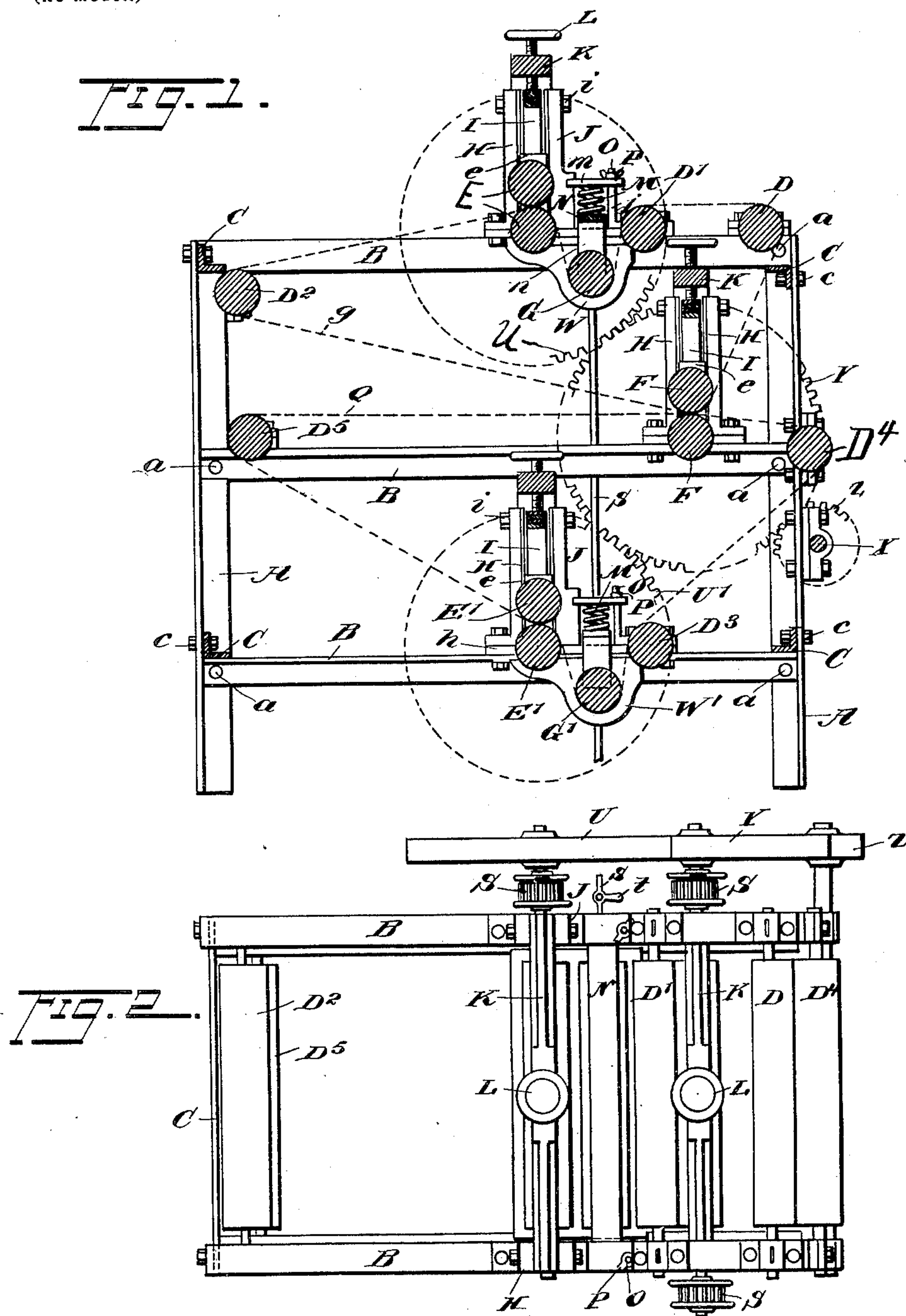
H. WEBER.

DAMPENING MACHINE.

(Application filed June 23, 1900.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES:

Julius Smith
C. R. Ferguson

INVENTOR

Herman Weber

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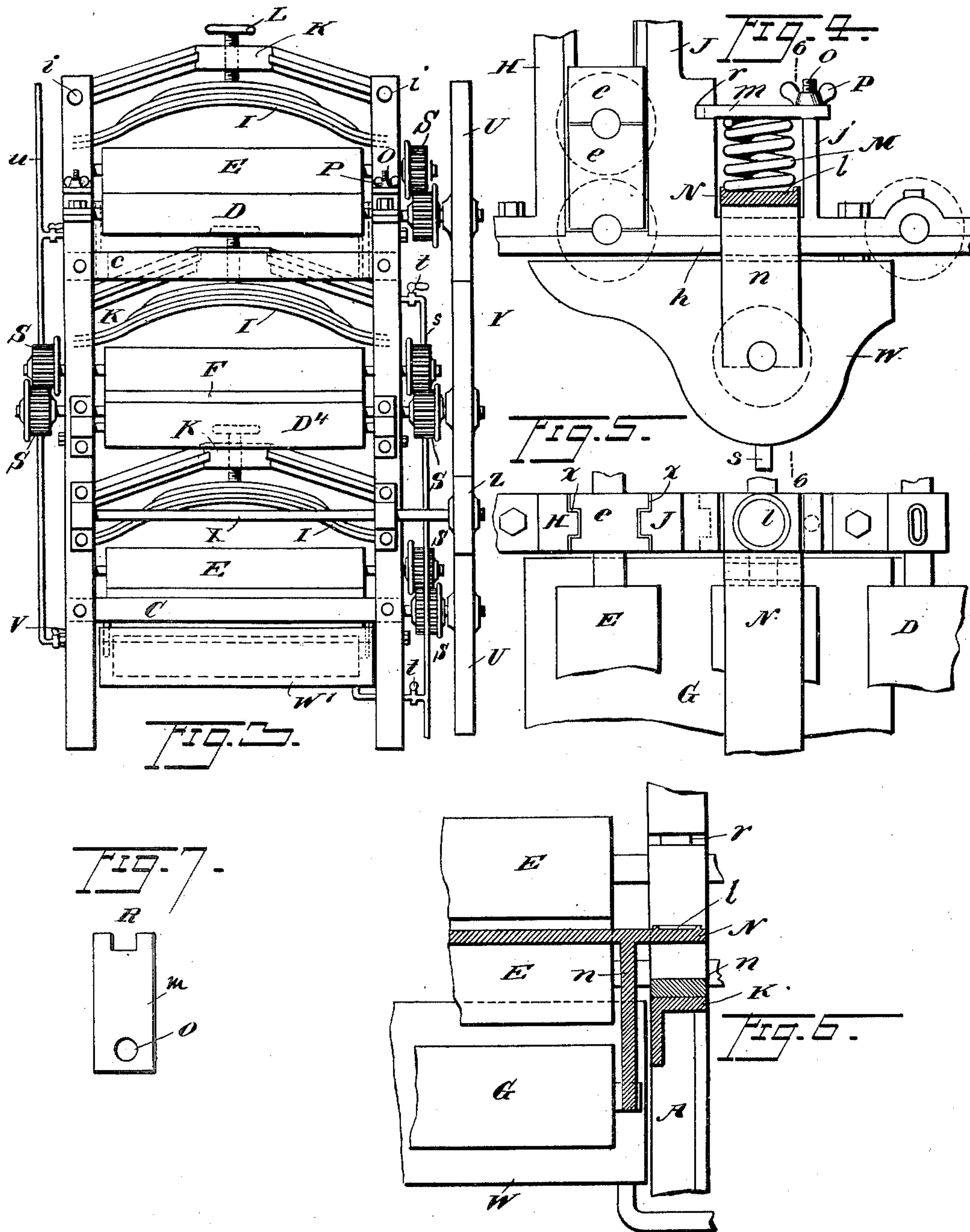
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UNITED STATES PATENT OFFICE.

HERMAN WEBER, OF LINCOLN, NEBRASKA.

DAMPENING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 679,407, dated July 30, 1901.

Application filed June 23, 1900. Serial No. 21,311. (No model.)

To all whom it may concern:

Be it known that I, HERMAN WEBER, a citizen of the United States, and a resident of Lincoln, in the county of Lancaster and State of Nebraska, have invented a new and Improved Dampening-Machine, of which the following is a full, clear, and exact description.

This invention relates to improvements in machines for dampening clothes, particularly in laundries, prior to ironing; and the object is to provide a machine of simple construction by means of which the clothing may be quickly and uniformly dampened.

I will describe a dampening-machine embodying my invention and then point out the novel features in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional elevation of a dampening-machine embodying my invention. Fig. 2 is a plan view. Fig. 3 is a front end view. Fig. 4 is a fragmentary view showing dampening and wringing rollers employed. Fig. 5 is a top view of parts shown in Fig. 4. Fig. 6 is a section substantially on the line 6 6 of Fig. 4, and Fig. 7 is a plan view of a presser-plate employed.

The frame of the machine consists of legs or uprights A, side bars B, and end bars C. The side bars are connected to the legs by means of bolts *a*, while the end bars C are connected to said legs by bolts *c*. Supported in the upper portion of the frame and extended across the same is a water-pan W, and a similar water-pan W' is extended across the lower portion of the frame. Arranged to rotate in the pan W is a dampening-roller G, and above the pan is a pair of wringer-rollers E. The upper roller of the wringer E has its journal-bearings in blocks *e*, movable vertically between standards H J, as plainly shown in Figs. 4 and 5. The opposite sides of each block *e* are provided with vertical flanges, which engage in corresponding depressions or recesses *x* in the standards H J. A spring I has its ends engaged with the bearing-blocks of the upper roller E, so as to provide a yielding bearing between the two rollers. The pressure of the spring I may be

regulated by means of a screw L, engaging in a tapped hole in a cross-bar K, attached to the standards H J, as here shown, by means of bolts *i*.

The roller G is pressed yieldingly downward by means of springs M, which bear upon a cross-bar N, having downwardly-turned end portions *n*, in which the journals of the roller G have bearings. The upper ends of the springs M engage with holding-plates *m*, which at one end are notched, as shown at R in Fig. 7, to engage with a rib *r*, formed on the standard J, as indicated in Fig. 6. The other end of the plate *m* has an opening *o*, through which a bolt *j* passes, the upper threaded end O of said bolt being provided with a thumb-nut P. By this construction it is obvious that the roller G may be easily removed or replaced, as desired.

Mounted to operate in the pan W' is a dampening-roller G', and this is mounted and pressed downward in a similar manner to the roller G. Wringer-rollers E' are supported above the pan W' in a similar manner to the rollers E, as above described.

Arranged in the forward portion of the frame and between the pans W and W' is a third pair of wringer-rollers F, which are mounted in a similar manner to the other wringer-rollers. An endless apron of textile material *g* extends between the wringer-rollers F, passes over an idler-roller D, thence over an idler-roller D', underneath the roller G, then upward between the rollers E and around another idler-roller D², and then to the rollers F, which are at the discharge end of the machine. A similar apron Q is passed around the under side of the roller G', thence between the rollers E', thence over the idler D⁵, between the rollers F, and thence over the idler D⁴ and the idler D³ back to the roller G'.

The ends of the bar N are provided with seats *l*, having a raised rim to receive the lower ends of the springs M, so as to prevent any lateral movement of said springs. Water may be discharged from the pans W and W' through a pipe *s*, which has connections with said pans, and valves *t* are arranged in said connections, as plainly shown in Fig. 3. Water may be supplied to the pans through a pipe *u*, the connections between said pipe *u* and the pans being provided with valves *v*.

The several pairs of wringer-rollers are geared together by pinions S. On the shaft of one of the rollers E is a gear-wheel U and on the shaft of the lower wringer-roller E' is a gear-wheel U'. These two gear-wheels mesh with a gear-wheel Y, which is engaged by a driving-pinion Z, mounted on a shaft X, to which motion may be imparted by any desired means. It will be noted that the two aprons g Q diverge toward the end of the machine in which clothing is to be inserted.

In operation the aprons move through the water-pans and will become saturated with water and the excess will be squeezed out by the wringer-rollers adjacent to the pans. Then the clothes placed upon the upper stretch of the lower endless apron will be carried along between the wringer-rollers F, and these wringer-rollers will squeeze the moisture from the apron and distribute it evenly upon the clothes which will discharge at the front end of the machine over the idler D⁴ in condition to be ironed.

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

1. A dampening-machine, comprising a frame, a water-pan supported in the upper portion of said frame, a dampening-roller mounted to rotate in the pan, wringer-rollers arranged adjacent to said pan, idler-rollers

supported by the frame, wringer-rollers arranged at the discharge end of the machine below the said pan, an endless band extending between said wringer-rollers around the idlers and underneath the dampening-roller, a water-pan supported in the frame underneath the first-named pan, an endless apron movable through said pan and also between the wringer-rollers arranged at the discharge end of the machine, and idler-rollers around which said last-named apron extends, substantially as specified.

2. A dampening-machine, comprising a frame, water-pans supported one above the other in said frame, a pair of wringer-rollers over each pan, an idler-roller adjacent to each pan, endless aprons movable through the pans over the idlers and between the wringer-rollers, and wringer-rollers between which each of the aprons pass, the lower one of said aprons having a delivering portion extended outward from the last-named wringer-rollers, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HERMAN WEBER.

Witnesses:

F. M. HALL,
S. H. BURNHAM.