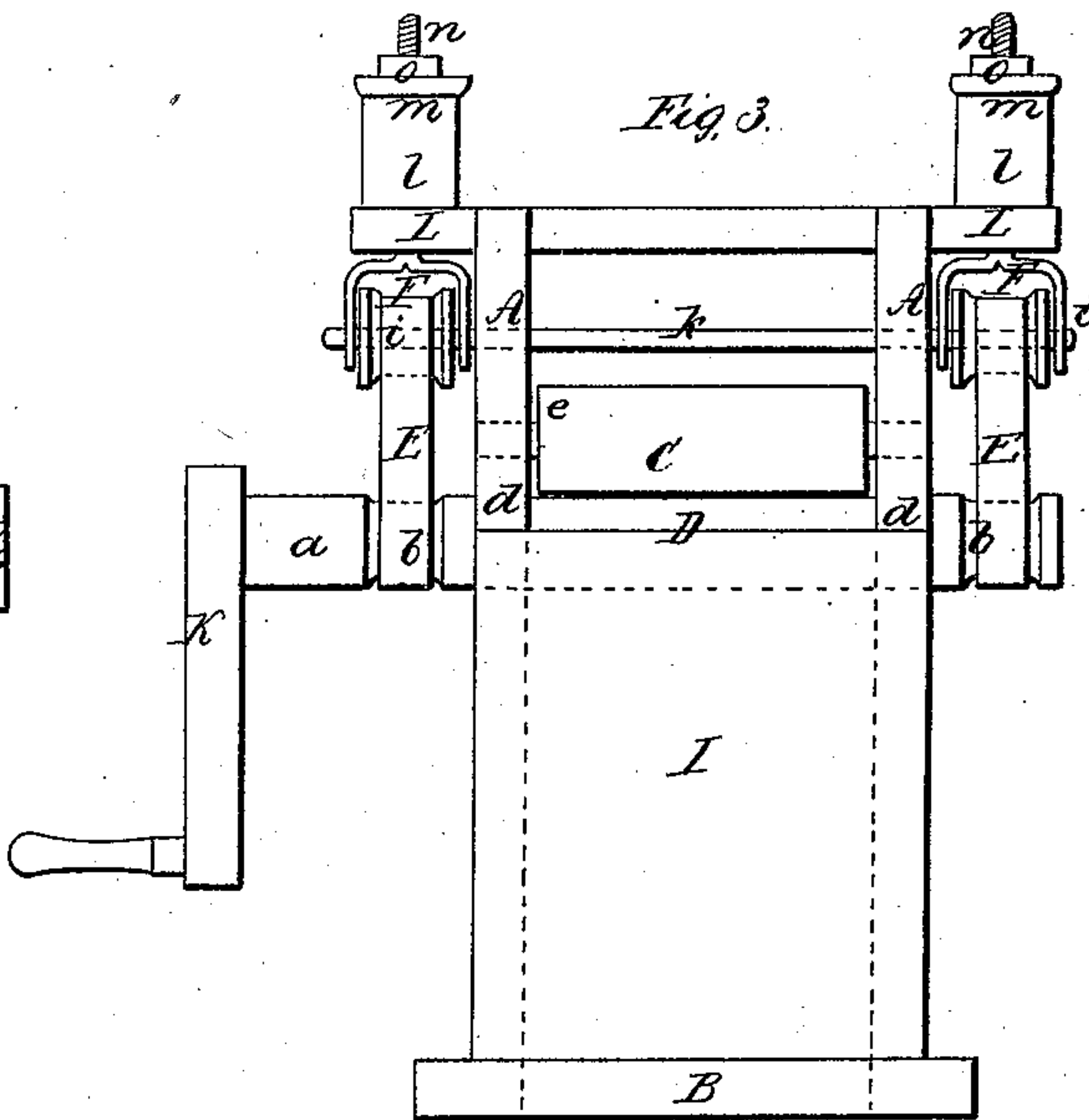
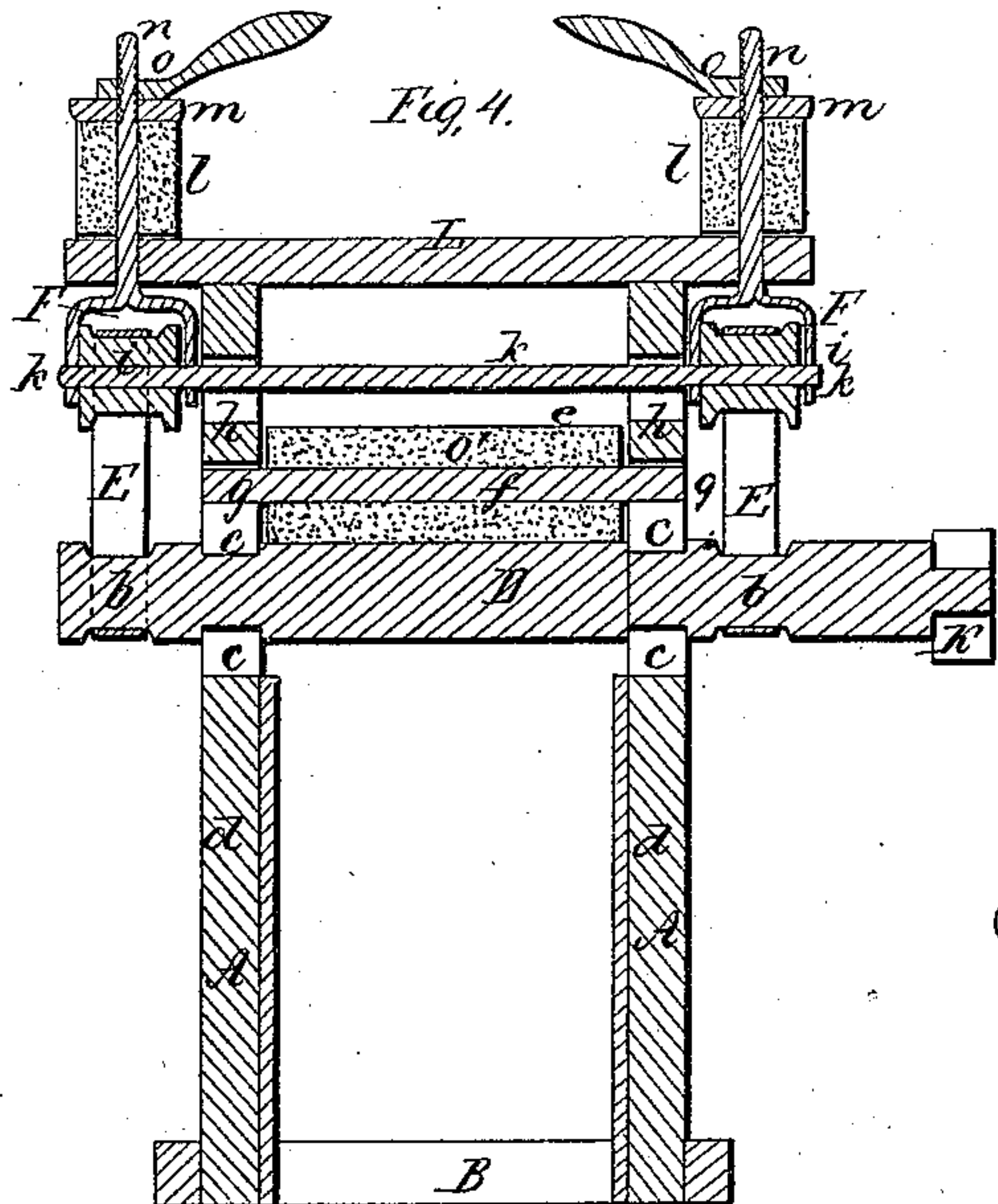
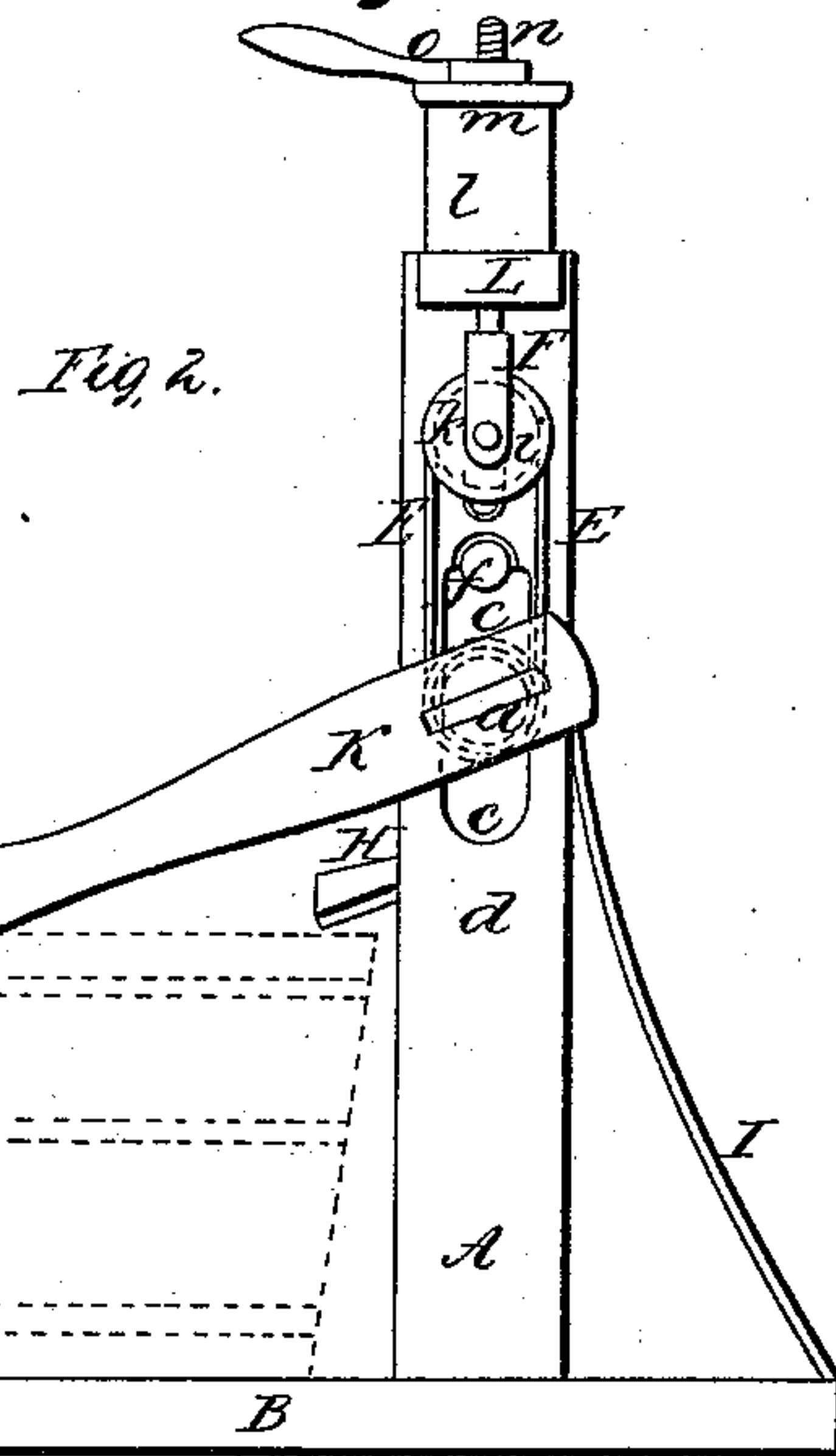
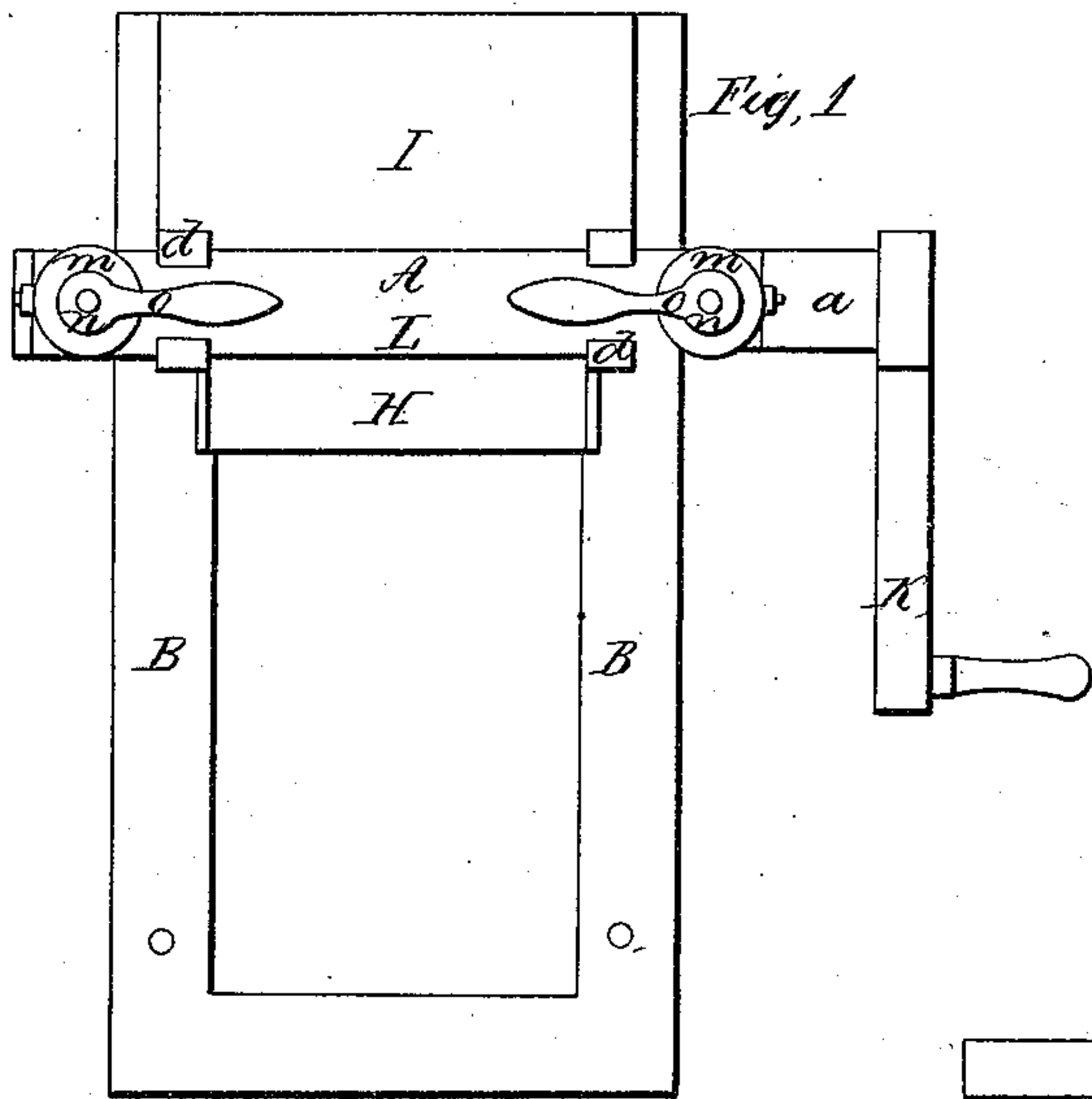


S. Blodgett,

Wringer,

N^o 36,271,

Patented Aug. 26, 1862.



Witnesses;

*A. P. Hall
J. R. Bampton*

Inventor;

*Samuel Blodgett
by his attorney
R. W. Wood*

UNITED STATES PATENT OFFICE.

SUMNER BLODGETT, OF GLOVER, VERMONT.

IMPROVED WRINGING-MACHINE.

Specification forming part of Letters Patent No. 36,271, dated August 26, 1862.

To all whom it may concern:

Be it known that I, SUMNER BLODGETT, of Glover, in the county of Orleans and State of Vermont, have invented an Improved Machine for Wringing or Squeezing Clothes; and I do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a top view, Fig. 2 a side elevation, Fig. 3 a rear end view, and Fig. 4 a transverse section, of it, this latter being taken in a plane of the axes of the two rollers of the machine.

The nature of my invention consists in an improved cloth-squeezing machine as constructed with one elastic and one inelastic roller, and with the latter suspended in endless bearing-bands supported by pulleys, as hereinafter specified; also, in supporting the lower or inelastic roller by means of endless suspension-bands and their pulleys, in combination with springs, the whole being as hereinafter described; also, in the combination and arrangement of a tub-platform with a roller-frame and its rollers, as hereinafter specified; also, in the arrangement of adjusting-screws and their washers with the elastic rubber springs, the forks, the endless bands, and their pulleys as applied to the inelastic roller.

In the said drawings, A denotes a vertical or upright frame, which is erected on a projecting platform, B, and is for the purpose of holding two rollers, C D, and their supports. The lower of the said rollers is to be an inelastic one, or, in other words, is to be made of wood, and to have upon its shaft *a* two pulleys, *b b*, they being arranged outside of the frame, as shown in the drawings. The roller-shaft runs through vertical holes or slots *c c*, made, respectively, in the two upright posts *d d* of the frame. The roller C is arranged directly over the inelastic roller D, and is to be formed principally of a cylinder or tube, *e*, of vulcanized india-rubber, applied to and so as to encompass a shaft, F, the journals *g g* of the shaft being supported against suitable bearings, *h h*, arranged within the slots *c c*, respectively. One of two endless bands or belts, E E, runs around each of the pulleys *b b*, and also about one of two other pulleys, *i i*, arranged as shown in the drawings. The axle K of each pulley *i* is supported by a vertical fork, F, the pulley

being arranged within the fork, as shown in Figs. 2, 3, and 4. The shank of the fork passes upward through the top bar, L, of the frame A, and also through a spring or cylindrical block, *l*, made of vulcanized india-rubber. The said shank also passes through a wooden washer, *m*, arranged on the top of the said spring. Furthermore, the fork has a male screw, *n*, formed on its upper end, and upon which is screwed a lever, *o*. Immediately below the lower roller, D, are two inclined planes, H I, one of which serves to direct into a tub, when placed upon the platform B, the water or liquid when expelled from the clothes by the rollers. The said platform B is intended to be placed upon a bench or table, and to receive upon its upper surface the tub in which the clothes are to be washed, the weight of such tub and its contents being thus made to operate in a manner to keep the squeezing-rollers in their due relation or position with respect to the tub.

In most other clothes-squeezers the roller-frame is provided with clamps or devices of like character for fastening it to a tub. In my improved machine such clamps are entirely dispensed with, as during their application to a tub they are very liable to mar or bruise it, and they injure its appearance.

The inelastic roller has its shaft provided with a crank, K, and is suspended, as it were, by the endless straps and pulleys from the springs arranged on the top of the frame A. On turning the crank the inelastic roller will be put in operation with very little friction, as its endless suspension-bands and their supporting-pulleys will be revolved by and with it, and the springs will allow the said roller to be pressed away from the other roller while the clothes are being squeezed. By using an inelastic roller in conjunction with an elastic one and supporting the said inelastic roller by devices as specified, I avoid a serious inconvenience, which is liable to result when two elastic rollers are employed, the same being the liability of the elastic covering of the rollers to be twisted around their shafts. It is very difficult to apply an elastic covering of vulcanized rubber to a shaft so as to enable such rubber covering to withstand the twist or torsion or torsion strain to which the roller may be subjected while in use. The application of the

washers and the adjusting-levers O O and the forks F F, as described, enables the pressure of the springs or their elastic force to be either increased or diminished as circumstances may require.

I claim—

1. The improved cloth-squeezing machine as constructed with one elastic and one inelastic roller, and with the latter suspended in endless bearing-bands supported by pulleys, as specified.

2. The combination and arrangement of the tub-platform B with the roller-frame A and its rollers C D, as specified.

3. Supporting the lower or wooden roller by means of the endless suspension-bands and their pulleys, in combination with springs, the whole being arranged and applied to the said roller and its frame substantially in manner and so as to operate as specified.

4. The arrangement of the adjusting-screws and their washers with the springs, forks, endless bands, and pulleys, as applied to the lower of the rollers, as set forth.

SUMNER BLODGETT.

Witnesses:

N. M. SCOTT,
H. S. CHAPLIN.