M. KNOTT.

Cloth-Measuring Machine.

No. 164,094. Patented June 8, 1875.

Fig. 1.

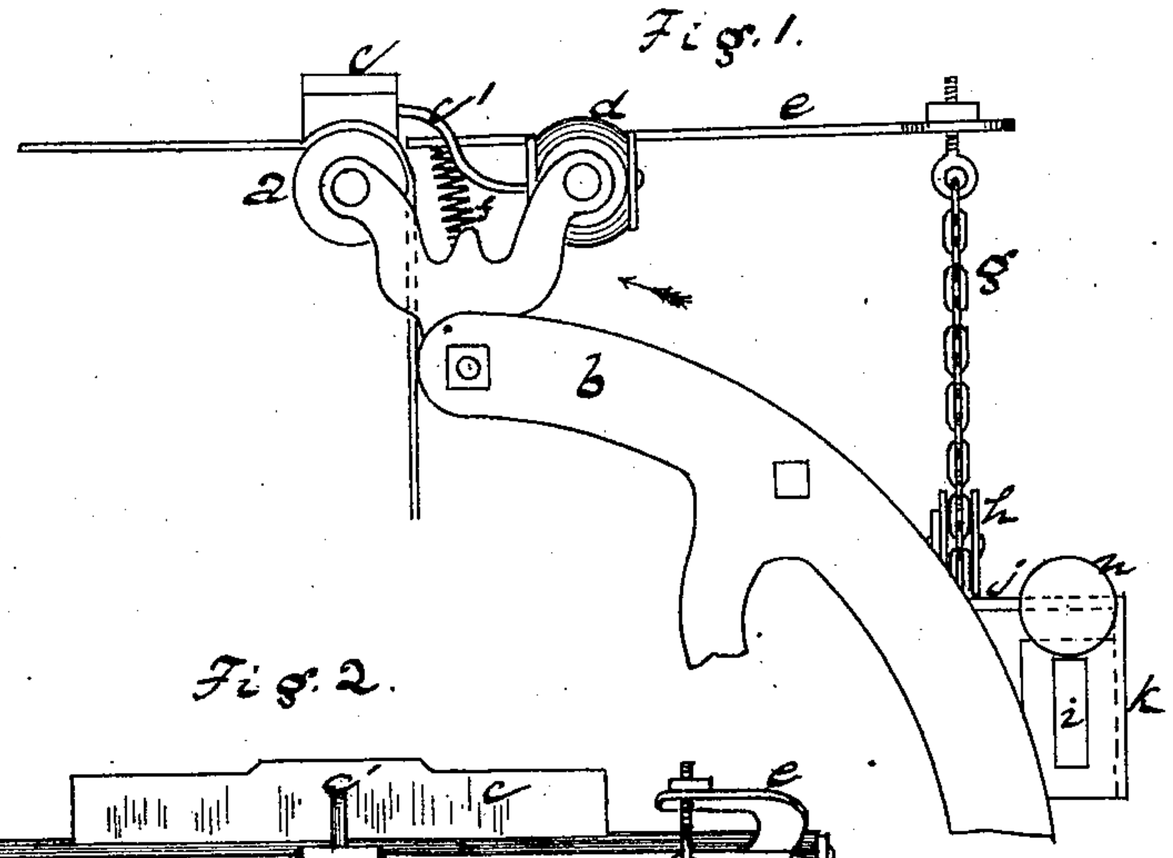
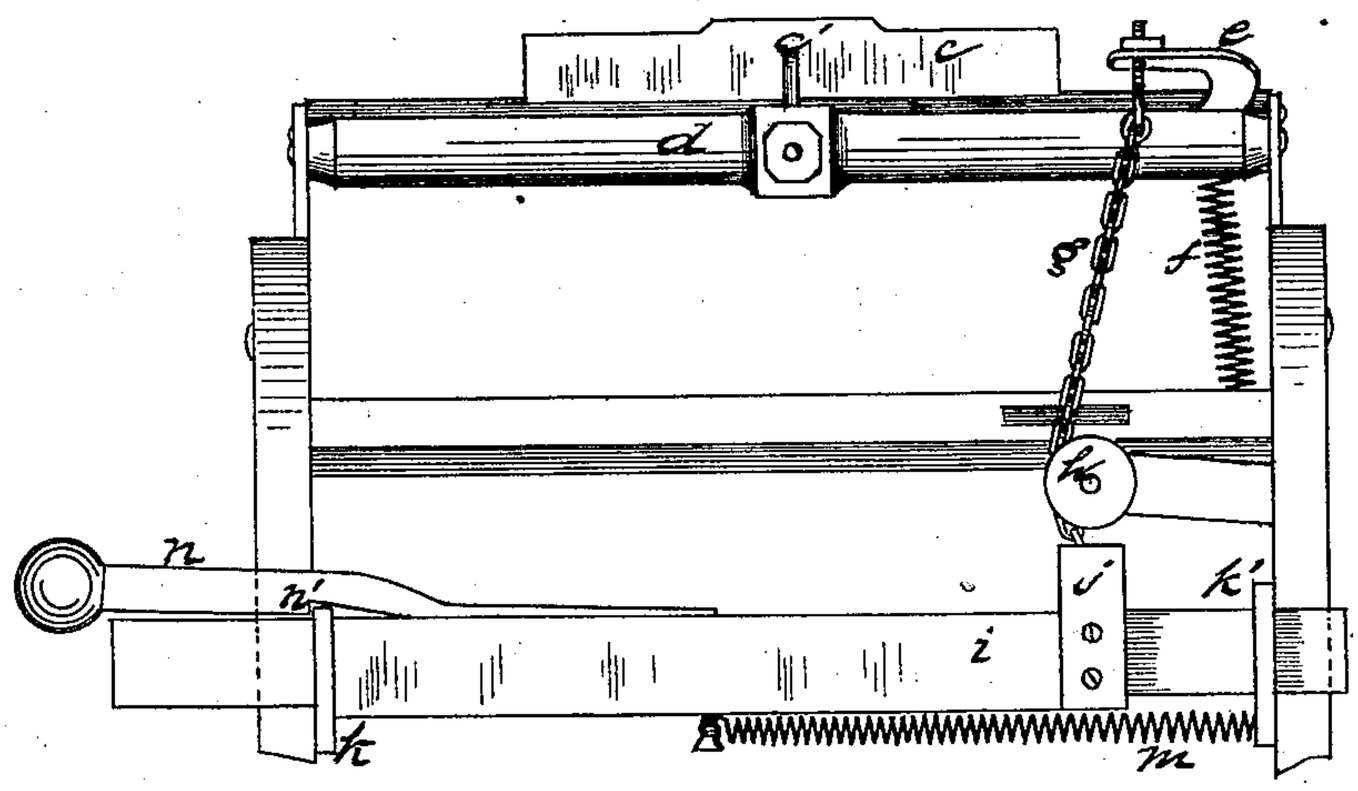
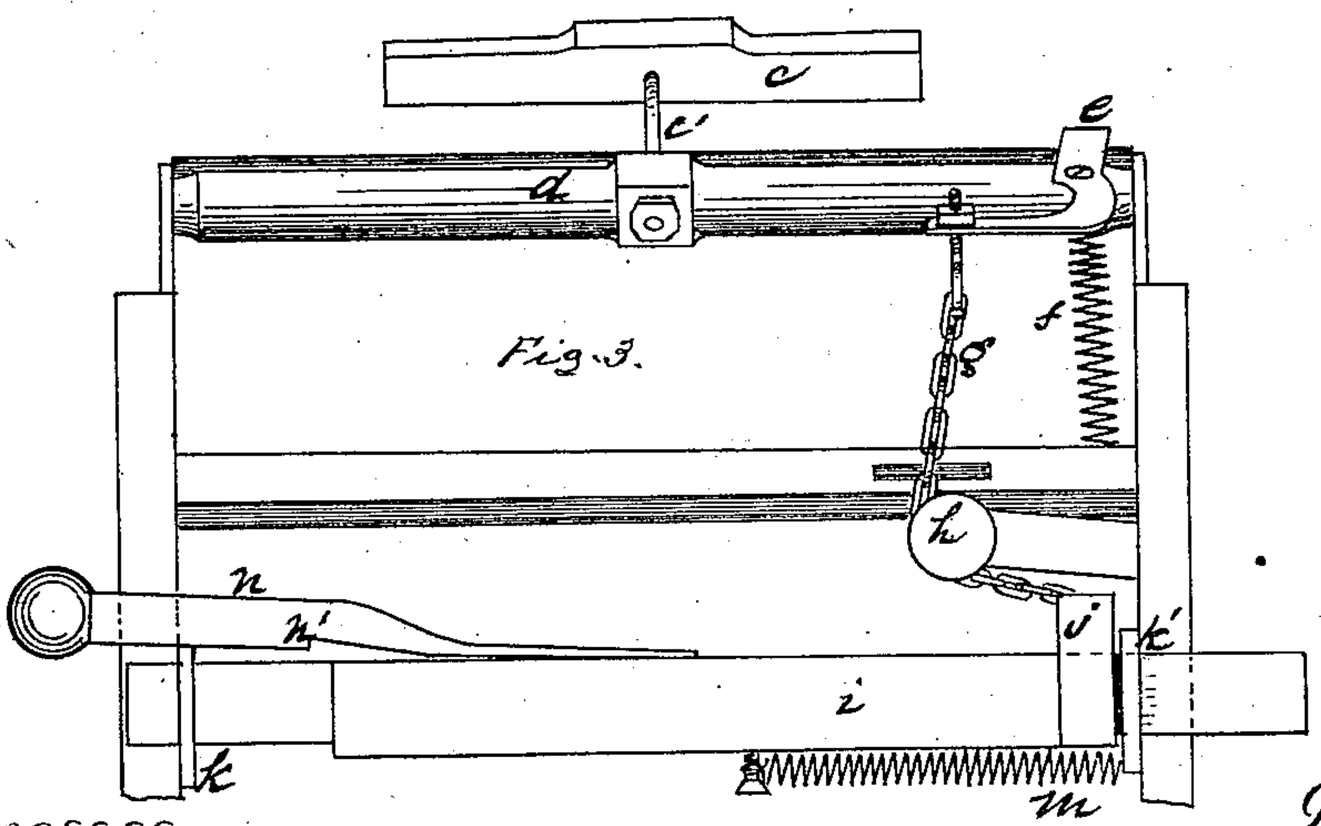


Fig. 2.



A

Fig. 3.



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UNITED STATES PATENT OFFICE.

MARK KNOTT, OF WILLIMANTIC, CONNECTICUT.

IMPROVEMENT IN CLOTH-MEASURING MACHINES.

Specification forming part of Letters Patent No. **164,094**, dated June 8, 1875; application filed April 9, 1875.

To all whom it may concern:

Be it known that I, MARK KNOTT, of Willimantic, in the county of Windham and State of Connecticut, have invented certain new and useful Improvements pertaining to Cloth-Measuring Machines, of which the following is a specification, reference being had to the accompanying drawings, where—

Figure 1 is a side elevation of the upper part of a cloth-measuring machine having my improvements attached, with the presser-bar down upon the cloth-roll. Fig. 2 is a rear elevation of the same parts in the same adjustment. Fig. 3 is a rear elevation of the same parts, with the presser-bar lifted from the cloth-roll.

Where cassimere or other cloth is made, machines are used to measure the cloth and fold it into package form for market.

In a machine for this purpose, which is much used, the cloth passes, in the direction indicated by the arrow, over the roll *a*, which is hung in the frame *b*, having the presser-bar *c* held down upon it by pressure of a spring or gravity. A workman has to raise this presser-bar about seven or eight hundred times a day, and hold it raised while he adjusts the cloth under it—a matter of great inconvenience.

My invention is a device for greatly lightening this labor.

The letter *a* denotes a cloth-roll; *b*, the frame of the machine; *c*, the presser-bar, hung by rod *c'* from shaft *d*; *e*, a lever fastened to shaft *d*; *f*, a spring, pulling the presser-bar down upon the cloth-roll; *g*, a cord or chain attached to rear end of lever *e*, running down around the pulley *h*, and attached to the sliding bar *i* through the medium of the arm *j*. The bar *i* slides back and forth in the mortised supports *k k'*, being pulled toward the side A by the spring *m*. The spring-handle *n* has a shoulder, *n'*, which will catch on the support *k* when the bar is pulled forward, so as to let down the presser-bar, and will thus hold the bar *i* in this adjustment. By simply raising the handle *n*, the shoulder *n'* is disengaged from its hold on the support *k*, and the spring *m* will draw it back, thus raising the presser-bar. Then the workman, to throw the presser-bar down upon the cloth-roll, has only to grasp the knob of the spring-handle *n*, and draw it toward him, and the handle, being a downward-bearing spring, will lock itself into position; and to lift the presser-bar, he has but to slightly lift the handle *n*, when the bar *i* will fly back and lift the presser-bar.

I claim as my invention—

1. The combination of the cloth-roll *a*, presser-bar *c*, rod *c'*, shaft *d*, lever *e*, and spring *f*, all operating substantially as shown, for the purpose set forth.

2. The combination of the shaft *d*, bearing the presser-bar, lever *e*, spring *f*, chain *g*, pulley *h*, and sliding bar *i*, all operating substantially as shown, for the purpose set forth.

3. The combination of the shaft *d*, bearing the presser-bar, lever *e*, chain *g*, pulley *h*, sliding bar *i*, spring *m*, and spring-handle *n*, having the shoulder *n'*, all operating substantially as shown, for the purpose set forth.

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