

L. HARVEY.

Improvement in Cloth-Measuring and Folding Machines.

No 129,554.

Patented July 16, 1872.

Fig. 1

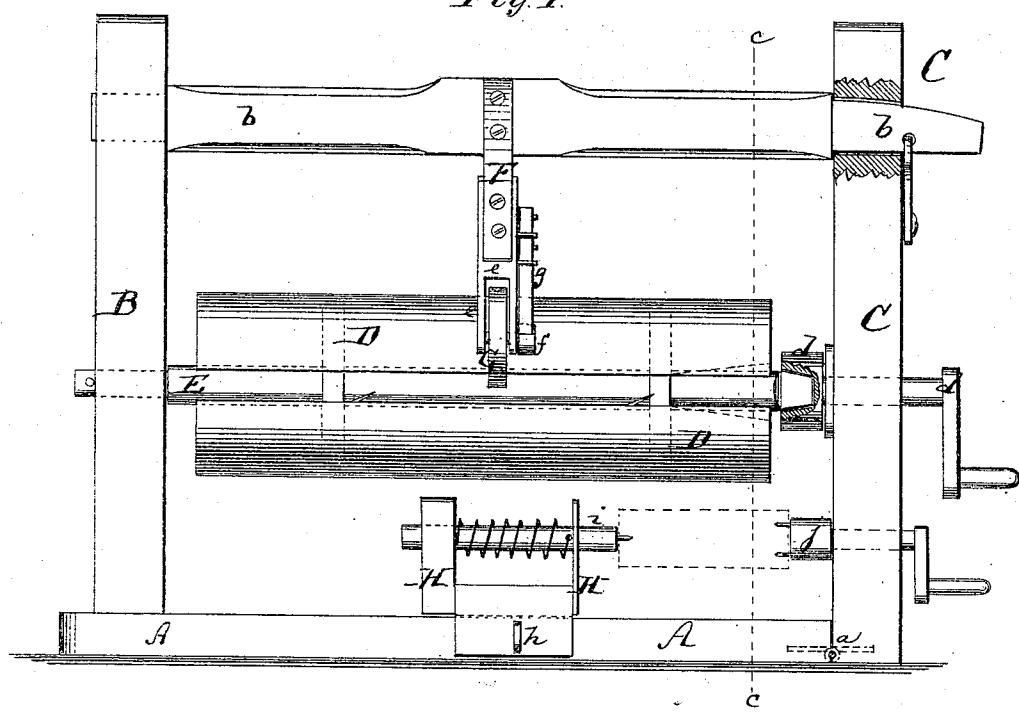
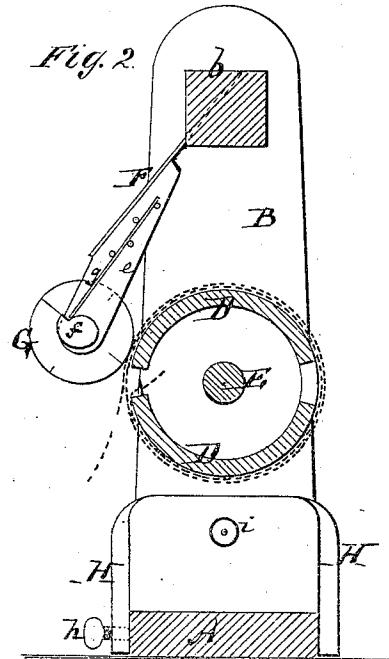


Fig. 2



Witnesses:

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## UNITED STATES PATENT OFFICE.

LEANDER HARVEY, OF NEW CASTLE, INDIANA, ASSIGNOR TO LEANDER HARVEY & CO., OF SAME PLACE.

## IMPROVEMENT IN CLOTH MEASURING AND FOLDING MACHINES.

Specification forming part of Letters Patent No. 129,554, dated July 16, 1872.

Specification describing a new and Improved Cloth Measuring and Folding Machine, invented by LEANDER HARVEY, of New Castle, in the county of Henry and State of Indiana.

Figure 1 represents a front elevation, partly in section, of my improved cloth measuring and folding machine. Fig. 2 is a vertical transverse section of the same taken on the line *c c*, Fig. 1.

Similar letters of reference indicate corresponding parts.

This invention relates to a new machine for measuring cloth that is being wound upon a beam or roller, and for folding it after it has been measured. The invention consists in the application to the winding-up roller of a measuring friction-wheel and spring-snap, the latter serving to audibly announce every revolution of the measuring-wheel.

*A* in the drawing represents the base of the machine. *B* and *C* are two posts projecting from the base, one of them, *C*, being hinged at the bottom, as shown at *a* in Fig. 1. *b* is a top beam or brace connecting the upper ends of the posts *B* and *C*, and serving to hold the hinged post *C* in a vertical position. It can, however, be detached from the latter, in which case the post *C* can be folded down horizontally, or nearly so. *D* is the drum upon which the cloth to be measured is wound. This drum is mounted upon a shaft, *E*, whose one end has its bearings in the fixed post *B*, while its other end is by a clutch or squared socket connected to a short shaft, *d*, that hangs in the hinged post *C*. After the cloth has been wound about the drum the post *C* is disengaged from the brace *b* and folded down. This will liberate one end of the drum and allow the cloth thereon to be slipped off bodily, when it will be properly folded for transportation or display. From the brace *b* projects a spring, *F*, whose lower end is connected with an arm, *e*, holding a wheel, *G*. The circum-

ference of this wheel will usually measure just one yard, and may be subdivided to show half, quarter yards, &c. The spring holds the roller in contact with the cloth on the drum, causing it to be revolved by the friction therewith. A notched disk, *f*, is mounted upon the arbor of the wheel *G*, and in contact with a spring, *g*, that projects from *e*. Once during every rotation of the wheel *G* the spring *g* snaps into the notch of the disk *f*, and gives thus audible notice of the revolution. The number of yards can by this means be easily measured. Other counting or even recording mechanism may, however, be connected with the wheel *G*. To the base *A* is or may be applied a small sliding frame, *H*, that can be fastened by a thumbscrew, *h*, and carries an arbor, *i*, in line with which there is also an arbor, *j*, through the post *C*. A drum for winding ribbon upon is held between the pointed ends of the arbors *i* and *j* in manner indicated in Fig. 1, the slide serving to adjust the distance between the ends of *i* *j* in accordance with the length of drum. In this manner ribbon can be conveniently wound upon blocks or disks ready for market.

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

1. The measuring-wheel *G*, hung in a spring-arm, and provided with the notched disk *f*, to operate, in conjunction with the click-spring *g* and winding-up drum *D*, substantially as herein shown and described.

2. The slide *H*, carrying the arbor *i*, and arranged in combination with the hinged post *C*, which carries the arbor *j*, substantially as herein shown and described.

LEANDER HARVEY.

Witnesses:

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