(No Model.)

W. H. HOLLOWAY.

CLOTH MEASURING MACHINE.

No. 507,006. Patented Oct. 17, 1893.

Fig. 1.

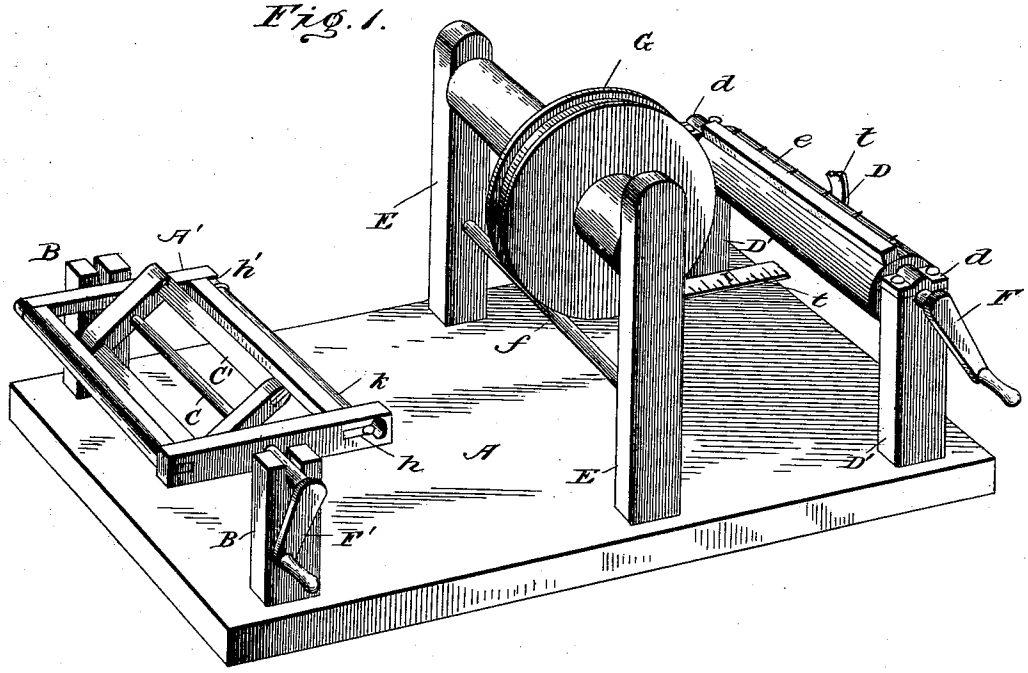


Fig. 2.

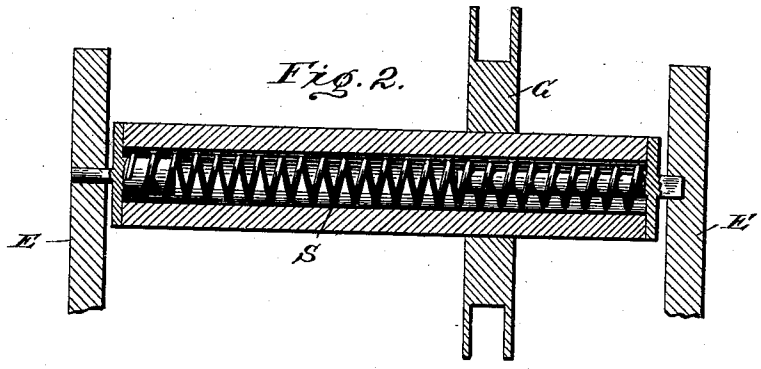
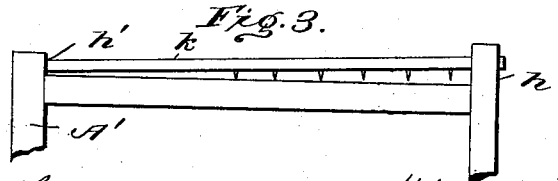


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM H. HOLLOWAY, OF BRAZIL, INDIANA.

CLOTH-MEASURING MACHINE.

SPECIFICATION forming part of Letters Patent No. 507,006, dated October 17, 1893.

Application filed October 15, 1892. Serial No. 449,039. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. HOLLOWAY, a citizen of the United States of America, residing at Brazil, in the county of Clay and State of Indiana, have invented certain new and useful Improvements in Cloth-Measuring Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to cloth measuring and folding machines; and has for its object, the improvements hereinafter described in the specification and more particularly pointed out in the claims.

In the accompanying drawings: Figure 1 is a perspective view of my improved machine. Fig. 2 is an axial section taken through the tape-reel, showing a part only of the frame. Fig 3 is a fragmentary view showing a part of the folding frame.

Like reference letters indicate corresponding parts throughout the several views.

Referring to the drawings, A indicates the base upon which the several parts are supported.

A′ is a rectangular frame supported in the bifurcated ends of posts B, B, by means of a central shaft C. This shaft fits the frame A′ closely, so that the frame will rotate with it. Inclosed in the frame A′ is a smaller frame C′ loosely mounted upon the shaft C, the purpose of which will be presently described.

At the opposite end of the machine is a cylinder D mounted in posts D′, D′, and secured by caps *d*, *d*. Upon the circumference of this cylinder D is formed a raised portion *e*, upon one side of which there is placed a series of sharp pins to engage the fabric to be measured. The axle of this cylinder is provided with a suitable crank for turning it. Between the cylinder D and the frame A′ is mounted a tape-reel G in the supports E, E, the axle of which is spring actuated after the manner of the ordinary shade roller, as clearly shown in Fig. 2. Beneath the tape-reel G and extending from one of the supports E to the other is a rod *f*, the use of which will appear when the operation of my machine is described farther on. The end pieces of the frame A′ project beyond the connecting bar on one side, and one of the end bars is slotted and the other perforated as shown at *h*, *h′*; into this slot is inserted a rod *k*, which is provided with sharp pointed pins that are normally turned in upon the frame, but which may be turned outwardly when it is required for the purpose hereinafter specified.

The operation of my device is as follows: The shaft C being removed from the frames A′ and C′, the frame C′ is inserted in the fabric in lieu of the usual board or center-piece upon which the cloths are originally wound, and the frames are again placed upon shaft C, when the loose end of the fabric is passed over the rod *f* and carried forward and attached to the pins on the raised portion *e* of the cylinder. The tape *t* is shown as broken off, but will be attached to the cylinder in any suitable manner. It will now be seen that by turning the crank F the fabric and the tape will both be wound upon the cylinder D, until the required measurement has been made, when the fabric will be cut, and the unmeasured part will be re-wound upon the remnant by turning the frame C′; the free end of the measured portion will then be passed back and attached to the pins on rod *k* which have been turned outward to engage it; the frame C′ will then be set at right angles to frame A′ and the frames rotated by means of the crank F, the two frames forming a reel upon which the fabric is wound from off cylinder D. As the fabric is taken up by the reel formed of frames A′, C′, the tape will be wound upon the reel G by means of the spring S shown in Fig. 2. When the fabric has all been removed from cylinder D to the reel frames A′, C′, the frame C′ will then be turned so as to coincide with the frame A′, thus allowing the fabric to sag. When the frame is brought to a stand with the rod *k* down, the sagging of the fabric will loosen it from the pins on the rod *k* and the rod will be turned so as to bring the pins next to the frame. The frame will then be lifted out of its bearings in the posts B and the fabric removed by withdrawing the frame, which is easily done after the inner frame C′ has been turned to coincide with the frame A′, when the frame can be replaced in its axial bearings and the operation repeated. When fabrics such as bagging and other heavy cloths are to be measured which are usually put up without a board or center-piece, or if any is provided,

it is a round pole or rod, in which case the frame C′ is dispensed with and the roll of fabric is placed directly upon the rod or shaft C and the operation is the same as before, excepting as to the part performed by the inside frame C′. When the fabric is placed upon the shaft C, collars with side pins may be used in the usual well known way.

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

1. In a cloth measuring machine, a reel consisting of two rectangular frames of unequal size, the large frame inclosing the smaller and both mounted on a common shaft, and adapted to coincide in their relation to each other, or to be positioned at different angles to their mounting, substantially as described.

2. In a cloth measuring machine, a reel consisting of two rectangular frames of unequal size, the larger inclosing the smaller and both mounted on a common shaft, and adapted to be positioned at different angles to each other, the larger frame having a cloth attaching device, and means for rotating the frames, substantially as set forth.

3. The combination of the spring actuated tape-wheel and the cylinder D having a raised portion *e*, with the roll composed of the rectangular frames A′, C′, and shaft C, and means for actuating the same, substantially as described.

4. A reel composed of a central shaft and two rectangular frames of unequal size, the smaller being adapted to turn within the larger, and means for supporting and actuating the same, in the manner described and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM H. HOLLOWAY.

Witnesses:

EDWARD S. BROWNE,

GEORGE H. GILBERT.