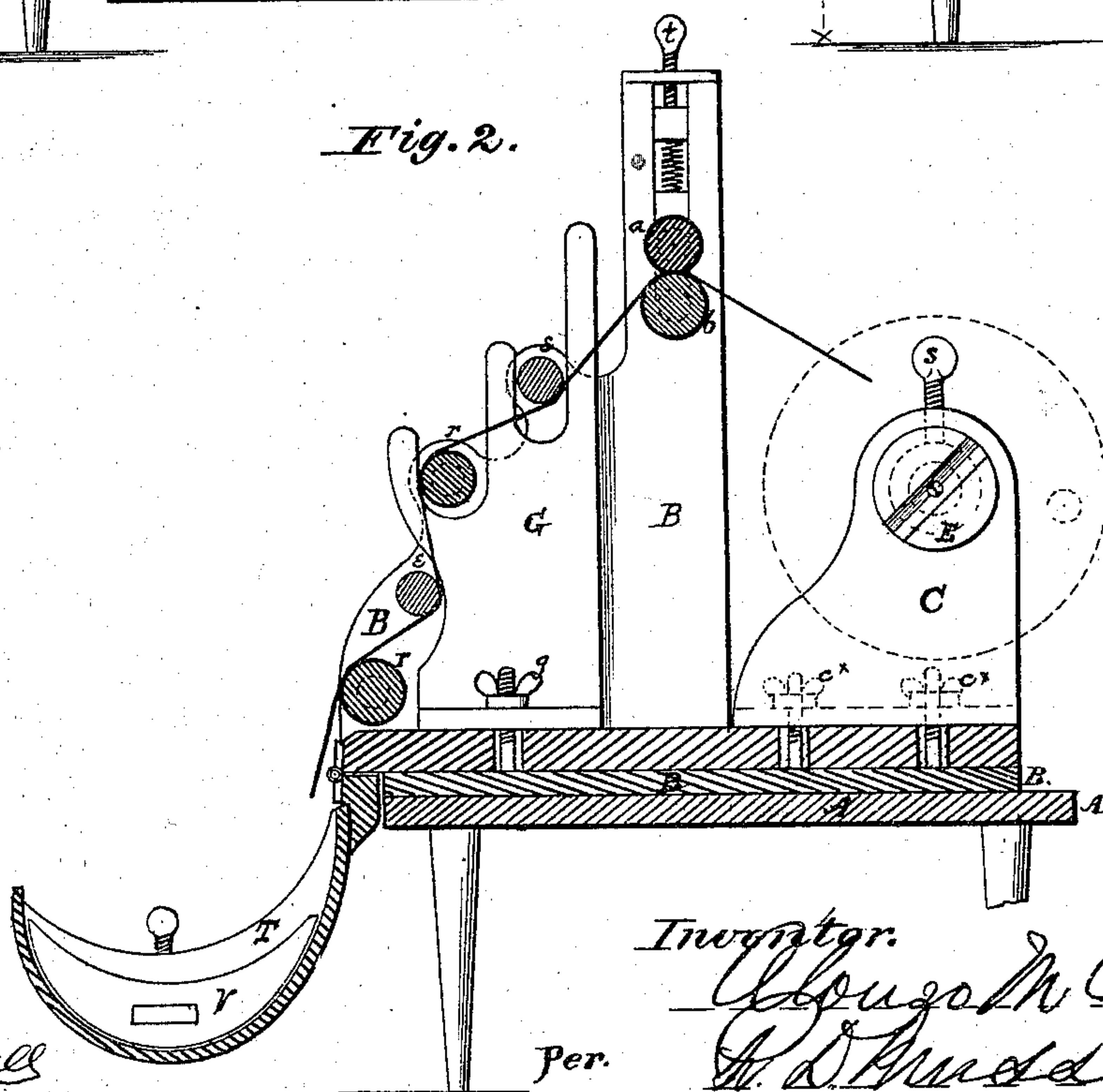
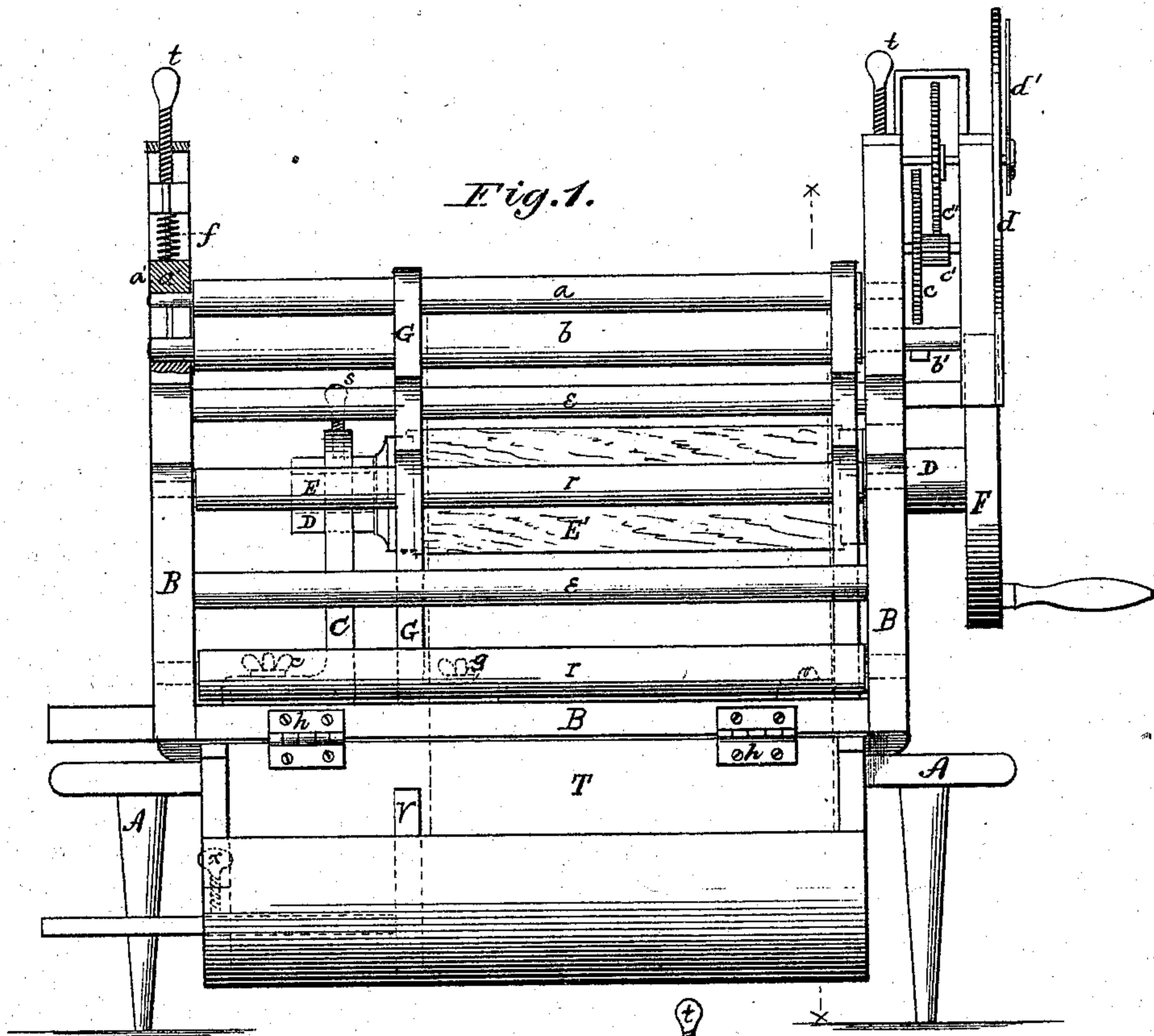


A. M. CHENEY.
Machines for Folding and Measuring Cloth.
 No. 136,967. Patented March 18, 1873.



Witnesses.
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UNITED STATES PATENT OFFICE.

ALONZO M. CHENEY, OF CHARLOTTE, MICHIGAN.

IMPROVEMENT IN MACHINES FOR FOLDING AND MEASURING CLOTH.

Specification forming part of Letters Patent No. 136,967, dated March 18, 1873.

To all whom it may concern:

Be it known that I, ALONZO M. CHENEY, of Charlotte, county of Eaton and State of Michigan, have invented Improvements in Cloth-Measuring Machines, of which the following is a specification:

My invention relates to machines for folding and measuring cloth; and consists in the construction and arrangement of parts, hereinafter described and claimed.

In the drawing, Figure 1 is a front view of a machine embodying my improvements. Fig. 2 is a section of the same through the line *xx* of Fig. 1.

A is a table, upon which the machine stands. B is the frame, which supports the tension, measuring, and other rollers and bars, over which the material to be measured is passed. The upper portion of one of the uprights is shown in section to illustrate the parts contained within it. C is an adjustable standard secured to the frame by means of screw-bolts *c' c'* which pass through its base into and through slots in the base of the frame, this construction allowing the standard to be adjusted to or from a corresponding and opposite fixed standard. In each of these standards is an adjustable bearing, D, secured in place by a set-screw, *s*, each of which carries a swiveled clutch, E, and to the clutch, opposite the standard C, is attached a crank. These clutches are adapted to receive and hold the folding-board E', the adjustability of the standard C and the bearings D D enabling the clutches to be readily adapted to a folding-board of any length. In the upper part of the frame B are placed the measuring-roller *b* and tension-roller *a*. The tension-roller rests upon the measuring-roller, its axis revolving in slots in the frame, and its pressure is regulated by a spiral spring, *f*, which acts upon a sliding upper bearing, *a'*, on each end of its axis, and the tension of which is regulated by a set-screw, *t*. The axis of the measuring-roller *b* projects beyond the frame B, and carries a single tooth, *b'*, which acts upon the gear-wheel *c*, and moves it at each revolution, the revolutions, by means of the gearing *c' c''*, being indicated by the index *d'* upon the dial-plate *d*. The measuring-roller is constructed of such size as, at a single revolution, to measure such portion of a yard as is desired. *e e* are stationary bars, and *r r*

are rollers about which the material is passed, the rollers and bars being alternated, and the cloth passed above the rollers and under the bars, so as to keep it taut and straight. G is an adjustable gage or guide, whose fingers project above the bars and rollers. It is secured to the base of the frame by means of a bolt, *g*, which passes into a slot in the frame. Its object is to so guide the cloth to the measuring-roller as to compel it to feed accurately. By means of the slot in the frame it can be adjusted to cloth of different widths. T is a hinged tray to receive the bolt of cloth to be measured. It is of such conformation that the bolt can be held and easily unrolled within it, and it is intended to be of such size that when turned up it will fold over the rollers *e e* and bars *r r*, and render the machine capable of easy boxing and transportation. The office of the adjustable gage V is to confine the bolt between it and the other end of the tray and cause it to unroll evenly.

The mode of operation is as follows: The bolt of cloth is placed in the tray T, and the guide V advanced so that the bolt can turn easily between it and the other end of the tray. The cloth is passed over rollers *r r* and under bars *e e*, between the tension and measuring-rollers, to the folding-board, which is held between the clutches E E, the guide G being adjusted to the width of the cloth. By turning the crank F, the cloth will be accurately fed to the measuring-rollers and folded upon the folding-board, and its measurement correctly indicated upon the dial.

I claim as my invention—

In combination with the ordinary folding and measuring rollers of a cloth folding and measuring machine, the hinged tray T provided with an adjustable gage V, the rollers *r r*, and bars *e e*, and adjustable gage G arranged between the rollers and bars to guide the cloth, and all constructed and arranged as described.

In testimony whereof I have signed my name to this specification before two subscribing witnesses.

ALONZO M. CHENEY.

Witnesses:

JOHN W. NICHOLS,
B. C. MACUMBER.