J. S. GOLD.

CLOTH MEASURING-MACHINE.

No. 174,517. Patented March 7, 1876.

Fig. 1.

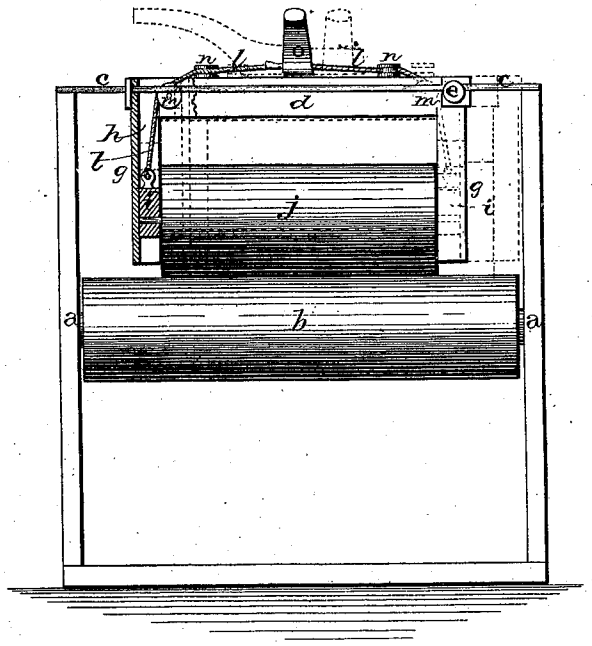
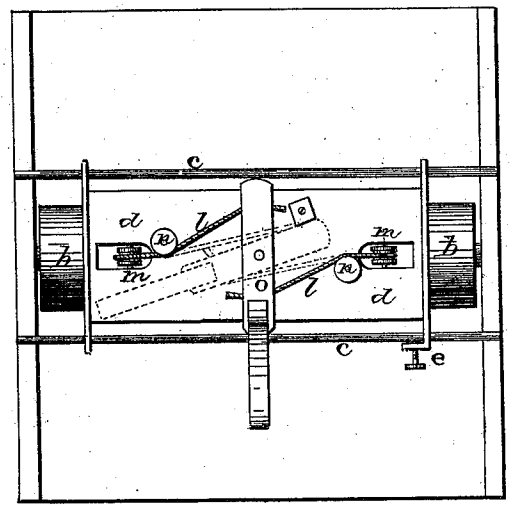


Fig. 2.



WITNESSES.

J. Wm. Garner.

Frank H. Burnham.

INVENTOR.

J. S. Gold

per

F. A. Lehmann, Atty

UNITED STATES PATENT OFFICE.

JOSEPH S. GOLD, OF WASHINGTON C. H., OHIO.

IMPROVEMENT IN CLOTH-MEASURING MACHINES.

Specification forming part of Letters Patent No. **174,517**, dated March 7, 1876; application filed November 12, 1875.

To all whom it may concern:

Be it known that I, JOSEPH S. GOLD, of Washington C. H., in the county of Fayette and State of Ohio, have invented certain new and useful Improvements in Cloth-Measuring Machines; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in cloth-measuring machines; and it consists in the arrangement and combination of parts that will be more fully described hereafter, whereby the pressure-roll is adjusted back and forth, and raised vertically to allow the end of the cloth to be readily inserted between the rolls.

The accompanying drawings represent my invention.

a represents the sides of the machine, of any desired construction, in which the lower longer roller *b* is journaled. Secured across the top of the frame parallel with the roller *b* are the two guides *c*, upon which moves back and forth the slide *d*, which slide is provided with one or more set-screws, *e*, for holding the slide rigidly in any desired position. In the guides *g*, that project vertically down from the under side of the slide, are cut grooves *h*, in which move the sliding boxes *i*, in which the shorter pressure-roller *j* is journaled. The upper ends of these boxes are attached to the cords or chains *l*, which pass up over and around the two sets of pulleys *m n*, and which cords or chains have their other ends secured to the lever *o* on opposite sides of the pivot on which the said lever turns. This lever *o* is pivoted on the center of the slide, and, having the roller attached to it by means of the cords, by a slight movement the roller *j* can be raised up above the lower one, so as to let the cloth slip idly through, or so as to regulate the pressure to any desired extent upon the cloth. As this upper roller in full-sized machines weighs about twenty-five pounds, its pressure can be adjusted so that it will be impossible for the cloth to slip.

By means of the slide, the pressure-roller can be adjusted so as to be exactly in line with the roll of cloth, and thus the pressure of the upper roller will be distributed evenly over the whole surface of the cloth, and thus cause the cloth to be drawn evenly through. Where the roll of cloth is not in line with the rollers, the cloth will be drawn unevenly through, and thus the measurement of the rolls cannot be depended upon.

Having thus described my invention, I claim—

The combination of the rollers *b j*, slides *d*, guides *c*, boxes *i*, cords or chains *l*, and lever *o*, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 21st day of October, 1875.

JOSEPH S. GOLD.

Witnesses:

J. P. ROBINSON,

JOS. C. PLUMB.