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J. S. GOLD.

Cloth-Measuring Machine.

No. 161,947. Patented April 13, 1875.

Fig. 1

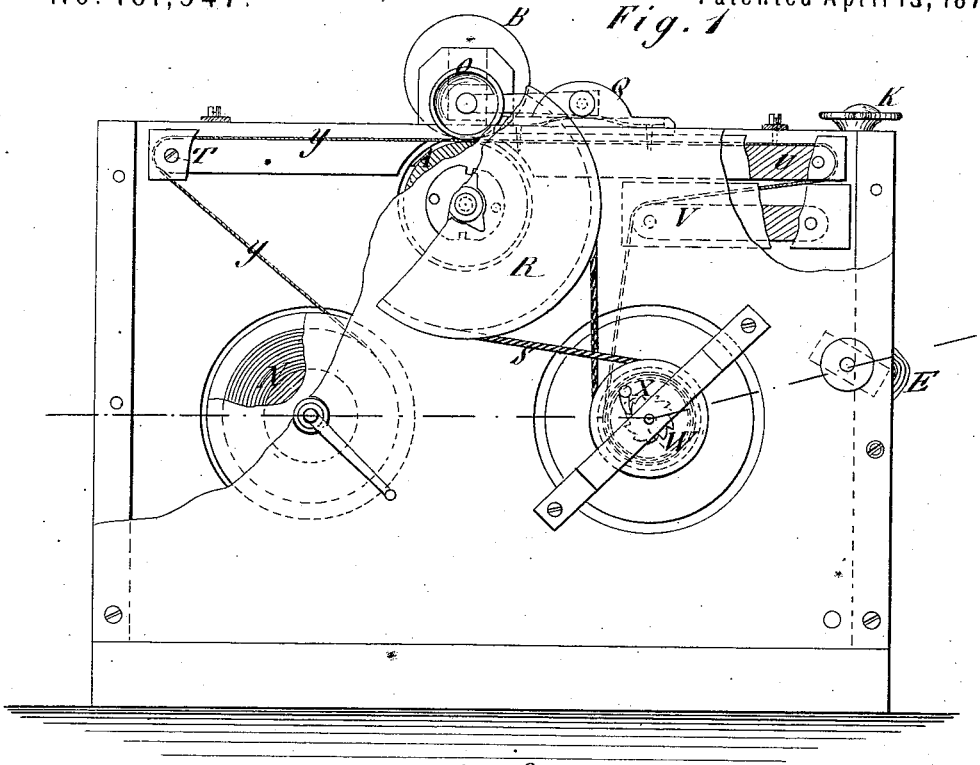

Fig. 2

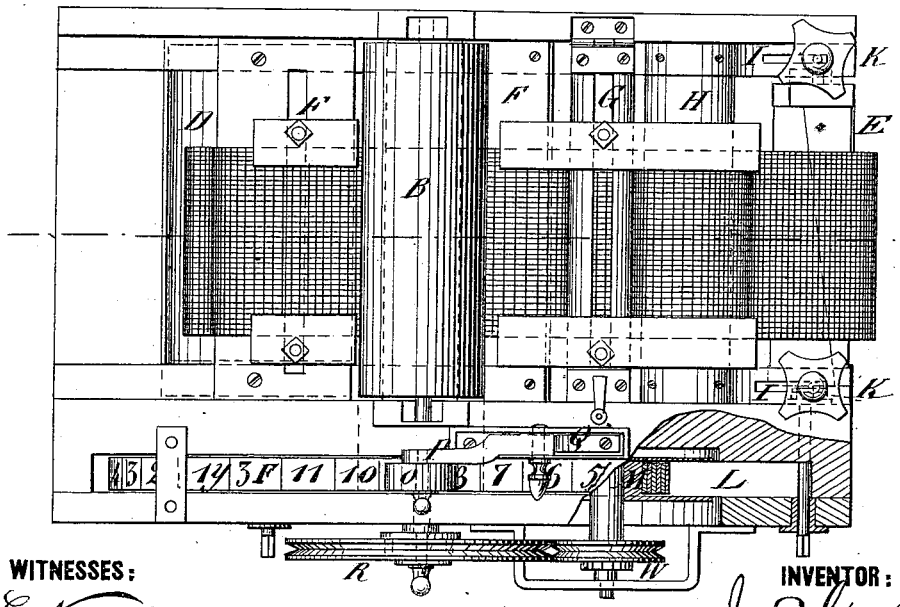

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Fig 3

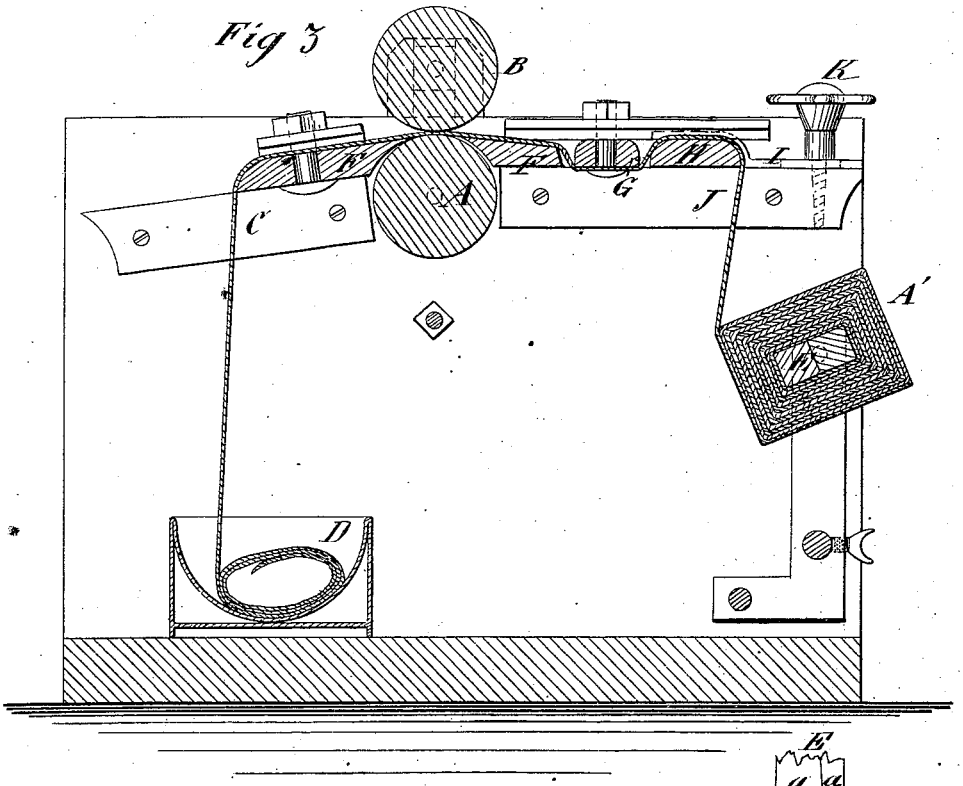


Fig. 4

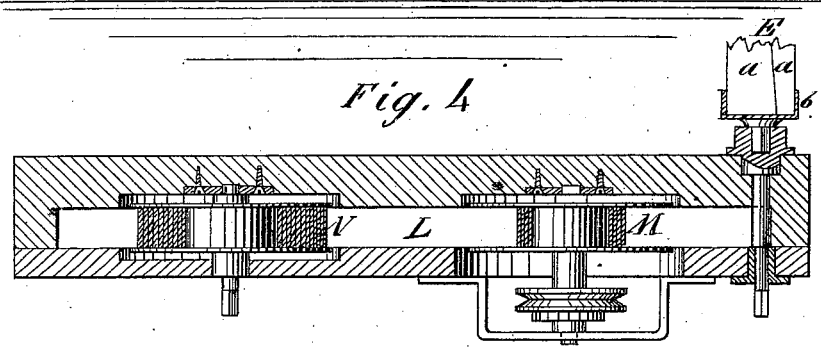
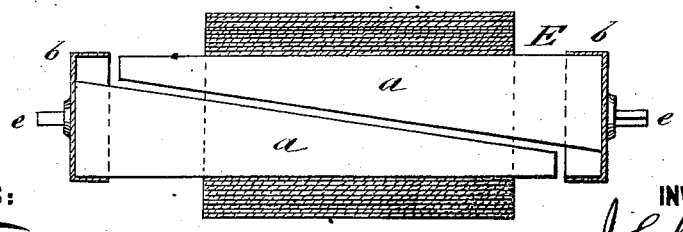


Fig. 5



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UNITED STATES PATENT OFFICE.

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

IMPROVEMENT IN CLOTH-MEASURING MACHINES.

Specification forming part of Letters Patent No. **161,947**, dated April 13, 1875; application filed October 17, 1874.

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 a new and Improved Cloth-Measuring Machine, of which the following is a specification:

The invention will first be fully described, and then pointed out in the claims.

Figure 1 is partly a side elevation and partly a sectional elevation of my improved cloth-rolling machine. Fig. 2 is a plan view, with a part shown in horizontal section. Fig. 3 is a longitudinal sectional elevation taken on the line *x x* of Fig. 2. Fig. 4 is a horizontal section through the measuring and recording tape spools on the line *y y* of Fig. 1; and Fig. 5 is a section of the cloth-roll and sockets, showing the arrangement of the rolling-board.

Similar letters of reference indicate corresponding parts.

A represents the cloth-roll, between which and the weighted roll B the cloth C passes from the trough D to the rolling-board E, going over the boards F, under tension-bar G, and over the tension-bar H. This last tension-bar is arranged to shift toward and from bar G, and has slotted metal bars, I, extending along the supporting-beams J of the frame, and secured by the binding-screws K, to hold the bar H at any required distance from the other. Bar G is hinged at one end, and detachably fastened at the other, to facilitate the adjusting of the cloth under it. The cloth-roller A extends through one side of the machine, and an inclosed chamber, L, in which are spools M and N, from one to the other of which the measuring and recording tape Y passes, going over the extension of the cloth-roll, so as to be drawn by it in unison with the cloth, and being pressed down on it, so as not to slip, by a pressure-roll, O, controlled by a lever, P, and spring Q. The weighted roll B is designed to be sufficiently heavy to insure the turning of the cloth-roll by the cloth itself without other means, and the cloth-roll carries a pulley, R, which drives the spool M, on which the tape winds, by a belt, S, which is designed to turn it, so as to take up the tape as fast as it is delivered by the cloth-roll. The tape passes over the tension-guides T, U, and V, which, together with the cloth-roll and the pressure-roll O, are designed to hold it, so that in case the belt should turn the spool too fast when the roll becomes large the belt will slip. A ratchet, W, and pawl X are combined with the spool M, to hold it against turning back inadvertently. The arm P of the pressure-roll is fitted so that whenever it is required to return the tape to the spool N it can be raised up to allow the tape to be run back by turning the spool with a crank applied to it. The pawl will at the same time be thrown off from the ratchet. *a* represents the two wedge-shaped pieces of the rolling-board; *b*, the socket, and *e* the journal attached to the wide end of each piece, to receive the narrow end of the other piece, and thus hold them together, so that they can be readily drawn out of the roll of cloth. The cloth-roll is turned by the cloth, which is drawn through the machine by winding it on the cloth-rollers E, with a crank or other means, and the cloth is pressed on the cloth-roll by the roll B with sufficient force to cause it to turn the machine. The tape shows, by the marks upon it, the measure of the cloth.

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

1. The combination, with stationary tension G, of the tension H, having slotted projection I and screw K, as and for the purpose described.

2. The combination of the extension of the cloth-roll through the tape-chamber L, the tape C, and the pressure-roller O, substantially as specified.

JOSEPH S. GOLD.

Witnesses:
ACE GREGG,
J. P. ROBINSON.