S. B. Luckett.

Cloth Measure.

No. 100,425. Patented Mar. 1, 1870.

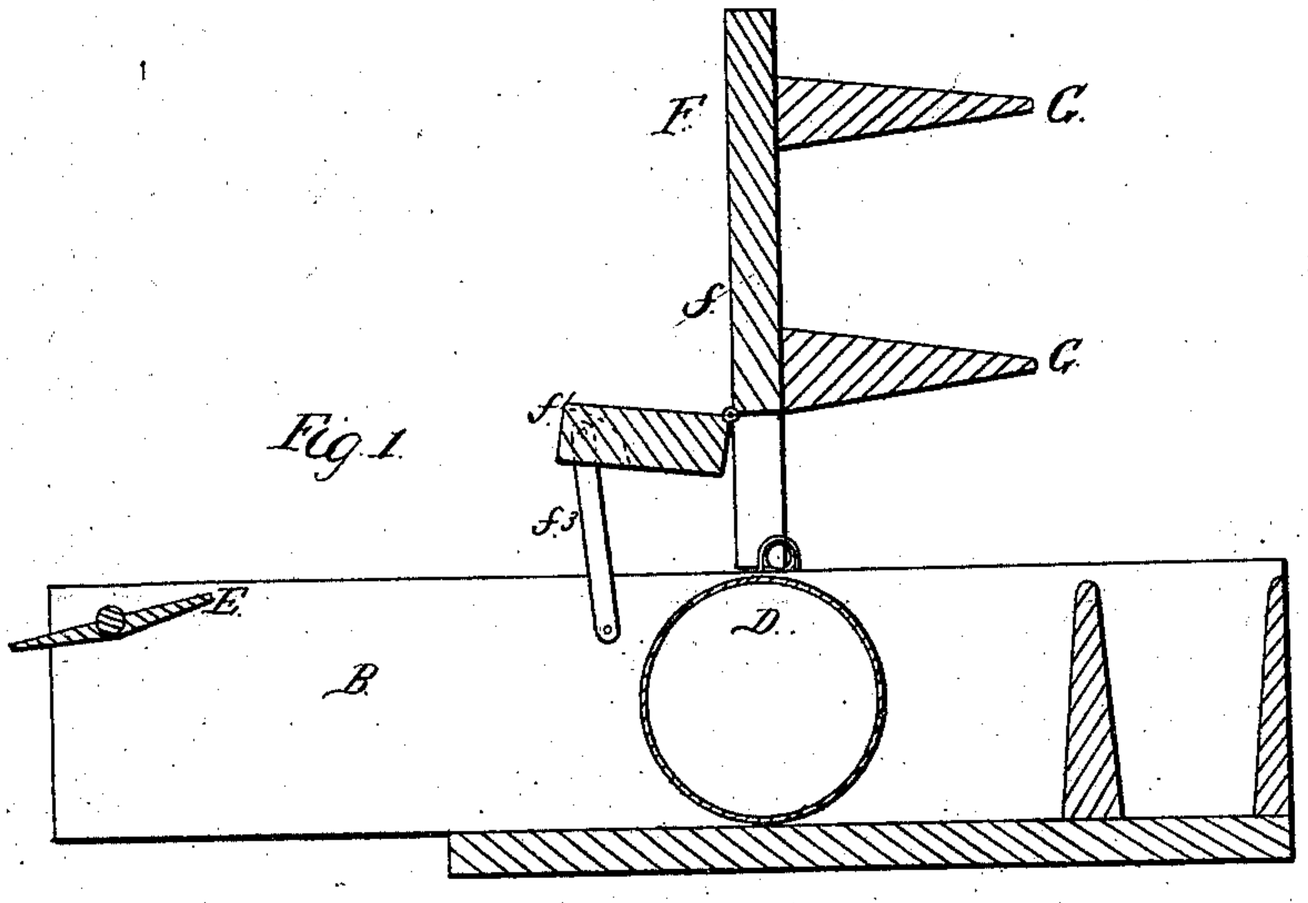

Fig. 1.

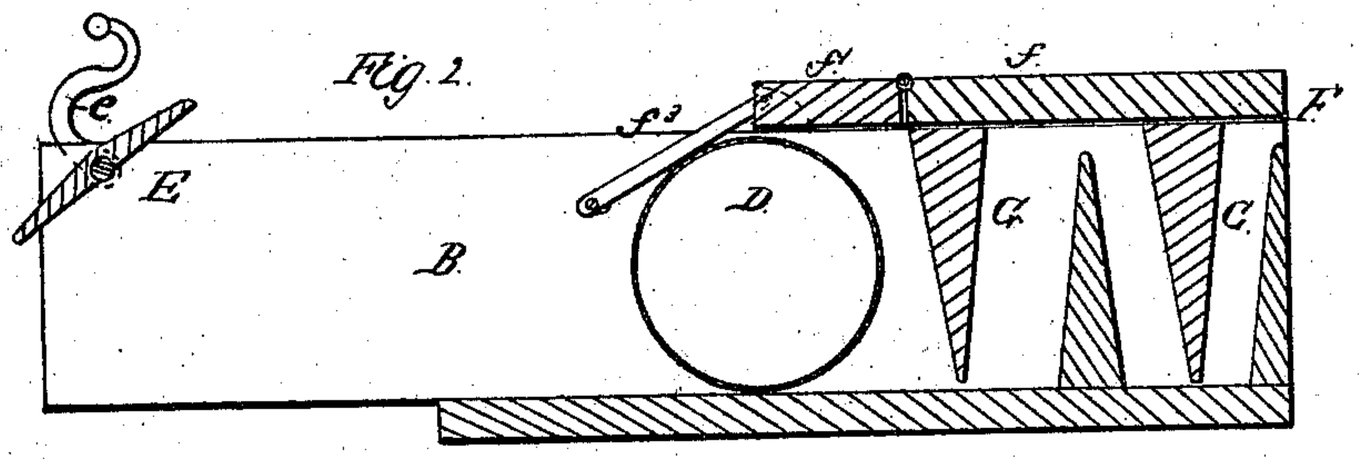

Fig. 2.

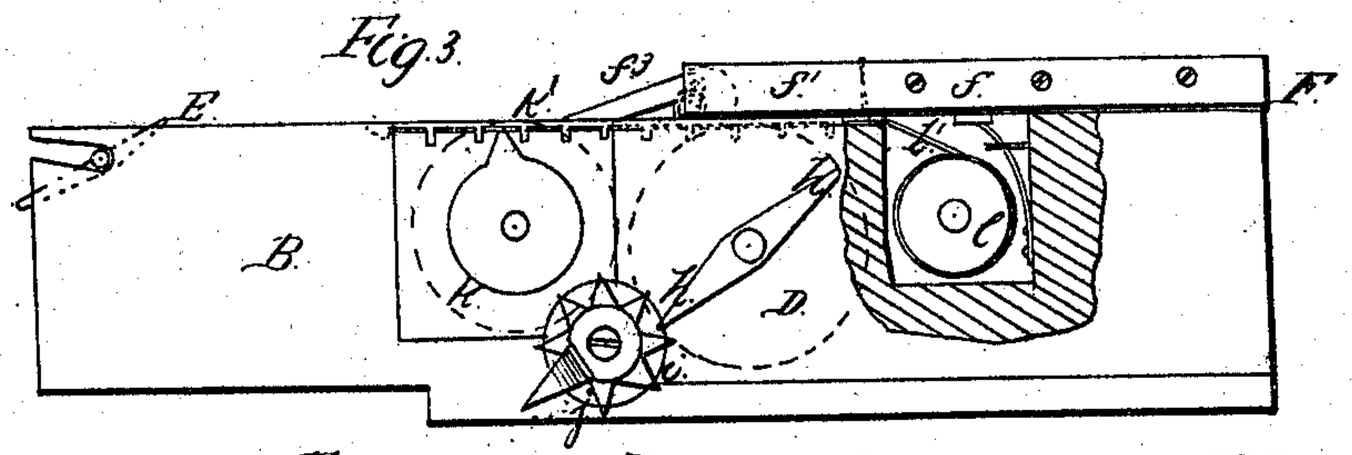

Fig. 3.

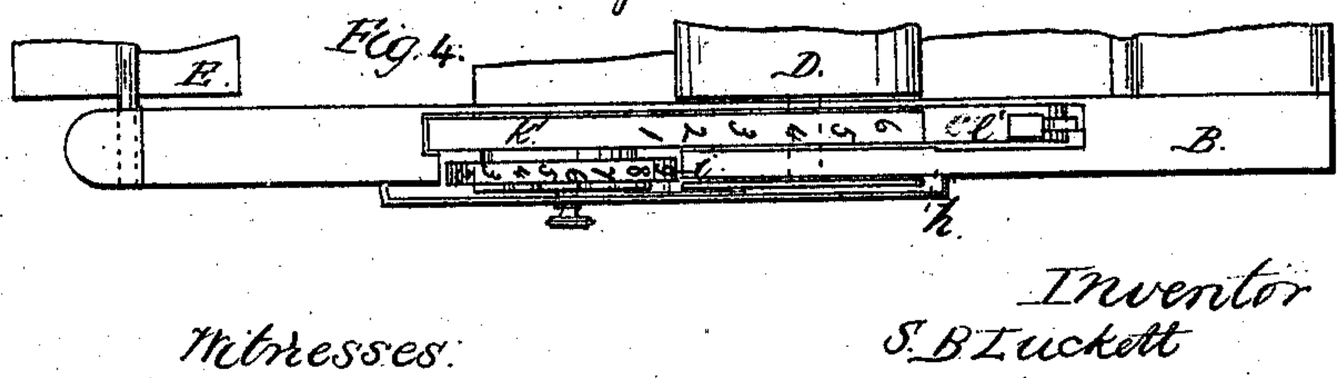

Fig. 4.

Witnesses:
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UNITED STATES PATENT OFFICE.

SAMUEL B. LUCKETT, OF CORYDON, INDIANA.

IMPROVEMENT IN CLOTH-MEASURING APPARATUS.

Specification forming part of Letters Patent No. **100,425**, dated March 1, 1870.

To all whom it may concern:

Be it known that I, SAMUEL B. LUCKETT, of Corydon, in the county of Harrison and State of Indiana, have invented a new and useful Improvement in Cloth-Measurer; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

This invention consists in certain details of construction relating to the registering devices, to the stoppage of the cylinder, and to the form of the cover, all of which will be fully described hereinafter.

Figure 1 represents a sectional elevation of my improved measurer with the cover raised. Fig. 2 represents a sectional elevation with the cover closed. Fig. 3 represents an end view with the registering devices exposed; and Fig. 4, a top view of the registering-wheel and slide.

To enable others skilled in the art to make and use my invention, I will now proceed to describe fully its construction and mode of operation.

A represents the base of my apparatus, which is securely fixed to the measuring-counter in any proper manner. B B represent the sides, and C the rear end. D represents the measuring-cylinder, which turns in proper bearings in the sides B. E represents the winding-shaft, which is constructed of proper form and size, and provided with the crank *e*. This shaft turns in open slotted bearings, so that it may be readily removed when desired. F represents the cover, which is constructed in two parts, $f\,f^1$. The larger part, *f*, is hinged to the sides B at the points $f^2\,f^2$. The smaller part, f^1, is hinged to the part *f*, as shown, and is also connected to the sides by the bars f^3 f^3, which latter are loosely pivoted at each end.

From this construction it will be evident that when the part *f* is raised at right angles to the sides B, the part f^1 will also be elevated above the sides, but in line with them and at right angles to the part *f*. This position of parts gives sufficient room above the cylinder to enable the cloth to be placed in position for measuring without difficulty.

G G represent pieces projecting from the cover, and G′ a partition in the space below them, and between them when the cover is shut. As the cloth passes over and under these parts it is strained and freed from wrinkles.

The arrangement of parts for registering the measurement of the cloth is as follows: The circumference of the measuring-cylinder measures one-quarter of a yard. Upon one end of its shaft is located a bar, pointed at each end, which thus forms two teeth, *h h*. As one end of these must pass a given point at each half-revolution of the cylinder, it follows that they indicate the measurement of an eighth of a yard. To regulate this, I provide a wheel, *i*, with eight teeth, which is revolved the distance of a single tooth at each passage of the teeth *h h*. An index, *j*, attached to the wheel, indicates upon a marked surface the number of eighths measured.

To indicate the yards up to ten, I provide a wheel, *k*, with ten teeth, which is moved the distance of a single tooth each time the wheel *i* revolves once, one of the teeth of the latter being made longer than the others for this purpose. The teeth of the wheel *k* are on its side, and its face is provided with numbers which show through an opening in the top of the registering-box, as shown.

To measure the number of yards from ten upward, I provide a numbered and toothed slide, *k′*, which is moved forward one notch at each revolution of the wheel *k* by means of a pin. Any number of yards may be thus indicated, according to the length of the slide, as each additional number on the slide adds ten yards to the aggregate amount.

To return the registering devices to their first position, after the measurement of a bolt has been completed, to begin a new measurement, I make the end of the shaft of the wheel *k* project through the box, and provide it with a knob for convenience of handling.

To operate the slide, I attach to it one end of a band, *l′*, the other end of which is attached to the wheel *l*, which is operated by a projecting thumb-piece, as shown. If desired, a spring may be employed to bear against the end of the slide and prevent the wheel *l* from being turned too far; but this is not essential. The wheel *i* is revolved by means of its index.

The operation is as follows: The slide and wheels are first placed in their proper position for starting. The cover is raised and the end of the cloth passed through beneath it, and

caught on the front edge of the hinged piece f^1. The cover is now lowered, and the cloth drawn to the winding-shaft, when the measuring may be proceeded with in the usual manner. The cover bears upon the measuring-cylinder for the purpose of holding the cloth to it, especially the last end of it, and also to stop the cylinder instantaneously when the end has passed over it. By this means a perfectly accurate measurement is obtained.

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

1. The numbered and toothed slide k', when operated in connection with the wheel k, wheel l, and band l', as described, for the purpose set forth.

2. The teeth $h\,h$, wheel i with index j, wheel k, and slide k', when arranged as described, for the purpose set forth.

3. The cover F, with parts $f\,f^1$, when combined and arranged as described, for the purpose set forth.

4. The cover F, with parts $f\,f^1$ and projecting pieces G G′, when combined and arranged as described.

5. The apparatus described, consisting of the frame-work, measuring-cylinder, winding-shaft, and regulating devices, when combined and arranged as described, for the purpose set forth.

This specification signed and witnessed this 21st day of December, A. D. 1869.

SAMUEL B. LUCKETT.

Witnesses:

GEORGE W. DENBO,

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