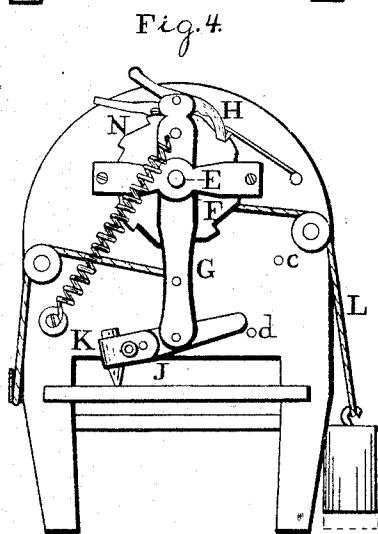
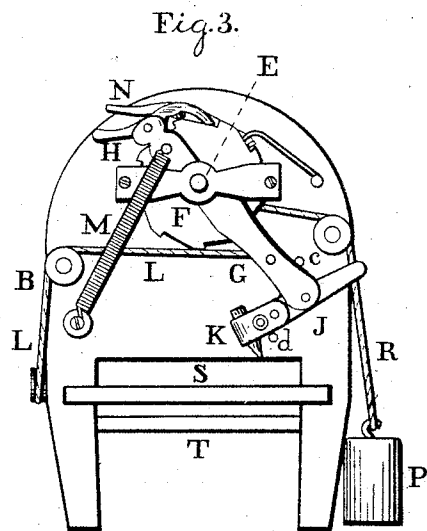
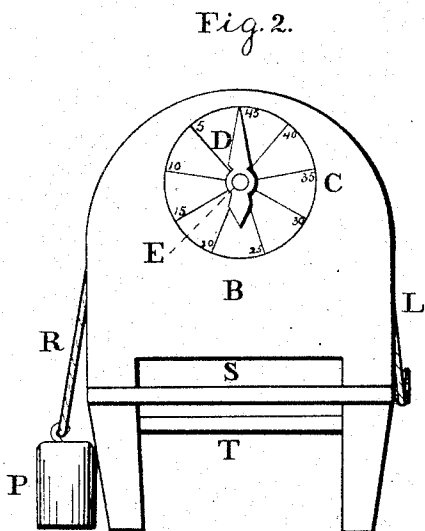
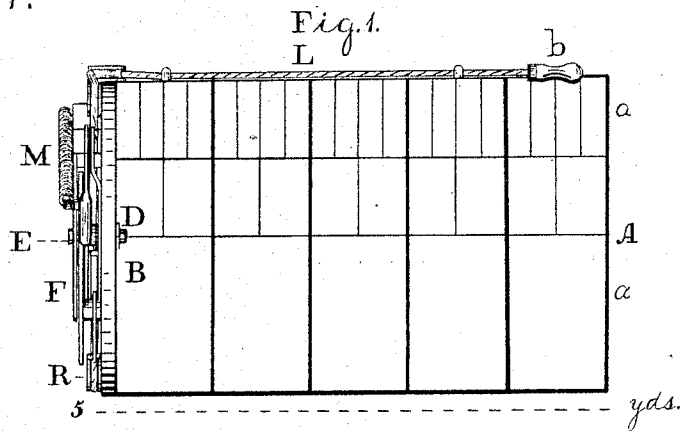


H. CARLON.
Cloth-Measures.

No. 158,027.

Patented Dec. 22, 1874.



Witnesses:

L. F. Brous.

A. P. Grant.

Inventor:

Hugh Carlon,
by John A. Diederichsen
Att'y.

UNITED STATES PATENT OFFICE.

HUGH CARLON, OF HOWELLVILLE, ASSIGNOR OF ONE-HALF HIS RIGHT
TO GEFFROY P. DENIS, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN CLOTH-MEASURES.

Specification forming part of Letters Patent No. **158,027**, dated December 22, 1874; application filed
November 7, 1874.

To all whom it may concern:

Be it known that I, HUGH CARLON, of Howellville, in the county of Chester and State of Pennsylvania, have invented a new and useful Improvement in Measuring Cloth; and I do hereby declare the following to be a clear and exact description of the nature thereof, sufficient to enable others skilled in the art to which my invention appertains to fully understand, make, and use the same, reference being had to the accompanying drawings making part of this specification, in which—

Figure 1 is a top or plan view of the device embodying my invention. Fig. 2 is a view of the inner face of one end thereof. Figs. 3 and 4 are views of the outer face of said end.

Similar letters of reference indicate corresponding parts in the several figures.

My invention consists in an oscillating arm simultaneously operating the chalk-holder and index of the register. It also consists in a gravitating chalk-holder, operating to mark the cloth without liability of breaking the chalk, and quickly raising from the cloth as soon as the marking is performed.

A represents a counter or table, from one end of which rises a head, B, having on its inner face a graduated dial, C. The index or pointer D of the dial is connected to its axis or arbor E, which passes through the board B to the rear or outside face thereof, and has connected to it a ratchet-wheel, F. G represents an oscillating arm, which is mounted loosely on the arbor E or other axis, and carries at its upper end a hinged dog, H, which engages with the ratchet F, and at its lower end the hinged chalk-holder J, consisting of a bar having a clamp, K, for the piece of chalk, and so jointed to the arm G that the clamp end will always fall by gravity. To the arm G is connected a cord, L, which passes over pulleys to the side of the board B, and then to front end *a* of the table or end thereof, opposite to the board B, where the said cord is provided with a suitable handle, *b*. A spring, M, is connected to the arm G, and adapted to cause the latter to assume its normal position. A stop, *c*, projects from the board B, and is arranged to limit the motion of the arm G. A

pin, *d*, is arranged on the board B in relation to the chalk-holder J, for purposes to be explained. N represents a pawl, which engages with the ratchet F for preventing reverse rotation thereof. P represents a weight, which is suspended from a cord, R, connected to the axis E, and winding thereon. The board B is cut away at a point just above the counter A, so as to leave a space, S, and below the counter is a cross-bar, T. The cloth, passing over the cross-piece, then around the edge of the counter and through the space S, will be properly guided in its movements, and be subjected to the friction necessary to keep it taut.

The counter will be of such dimensions, and the number of teeth of the ratchet F gaged relatively thereto, that the movement of one tooth of the latter will indicate on the dial C the dimension of the counter, the graduations of the dial corresponding to the number of teeth of the ratchet.

The operation is as follows: If the counter A is five yards in length, then the dial C will be graduated in fives. Should the cloth or goods be of such nature that they approximate forty-five yards in length, then there should be employed a dial marked with nine divisions of fives, and the ratchet F having nine teeth. The operator stands at the end *a* of the counter, and, drawing the cloth toward said end, brings the end of the cloth even with the end of the counter. Thus five yards of cloth are on the counter. The cord L is now pulled, whereby the arm G is advanced, the chalk-holder J lowered, the chalk run on the cloth, thus marking the latter, and the dog H moved against the teeth of the ratchet F, whereby the dial C is advanced the distance of one tooth of said ratchet, thus indicating the measurement and marking of the cloth equal to the length of the counter, which, in the present case, is five yards. The rotation of the ratchet winds the cord R and elevates the weight P, and continues this operation until the piece of cloth is measured. The operator now lets go of the cord L, whereby the several parts return to their normal positions. The cloth is then drawn forward and the line marked by the chalk made to register

with the end *a* of the counter. The cord *L* is again drawn in, and the second five yards are marked and measured, the operation being continued until the end of the cloth is reached, or the requisite amount is measured, after which the dog *H* and pawl *I* are raised, and the action of the weight *P* causes the rotation of the ratchet *F* and return of the dial *C* to its unit or starting point.

It will be seen that as the chalk moves quickly, freely, and easily, over the cloth, and conforms to any inequality in the thickness thereof, the danger of breakage of the same is avoided.

When the arm *G* returns to its first position the chalk-holder *J* strikes the pin *d*, and is immediately thrown off or raised from the cloth.

It will be seen that the single arm *G* not only operates the chalk-marker, but also the dial-index, whereby but a single cord, *L*, is essential to produce the two operations performed by the arm *G*.

The counter *A* will be graduated for measuring the fractions of the cloth.

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

1. The combination, with the cloth-measuring counter *A*, of the oscillating arm *G*, carrying at one end the chalk-holder, and at the other end the dog *H*, which operates the ratchet of the dial-index *D*, substantially as and for the purpose set forth.

2. The gravitating chalk-holder *J*, in combination with the oscillating arm *G*, substantially as and for the purpose set forth.

3. The chalk-holder *J*, oscillating arm *G*, and throw-off pin *d*, combined and operating substantially as and for the purpose set forth.

HUGH CARLON.

Witnesses:

JOHN A. WIEDERSHEIM,
A. P. GRANT.