C. SEAMAN.

SKIRT GAGE.

APPLICATION FILED SEPT. 8, 1913.

1,092,177. Patented Apr. 7, 1914.

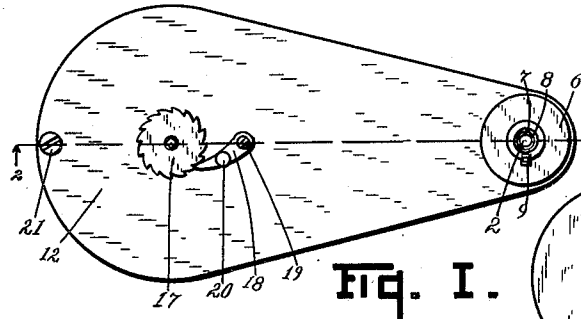

Fig. I.

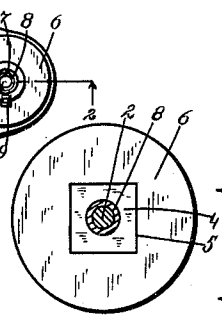

Fig. VI.

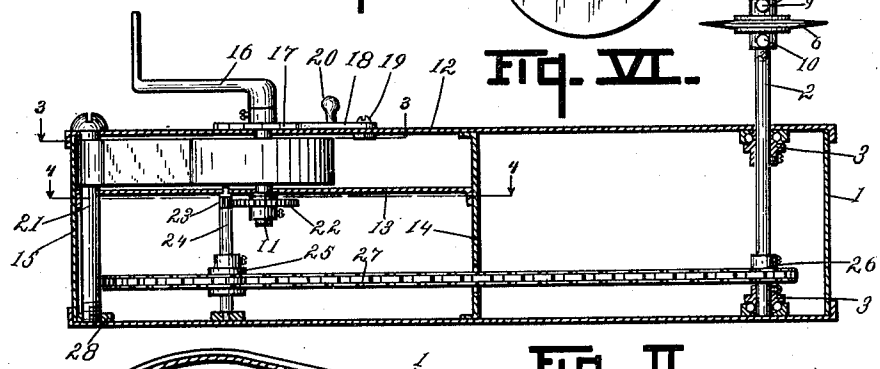

Fig. II.

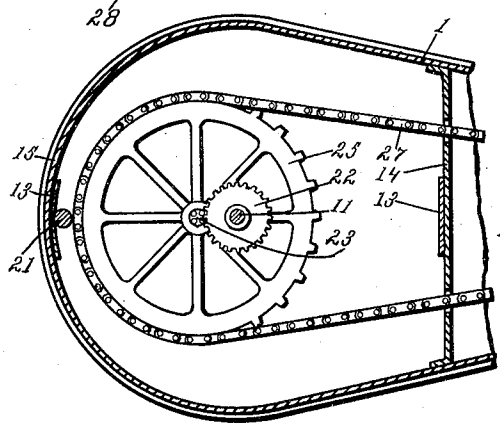

Fig. IV.

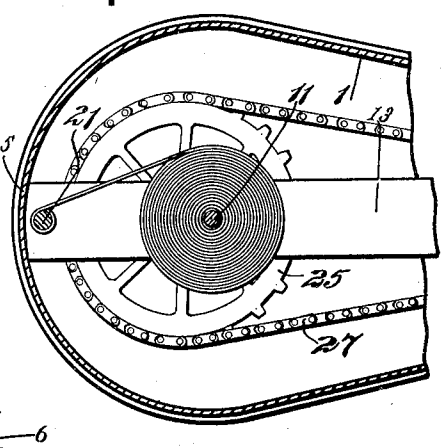

Fig. III.

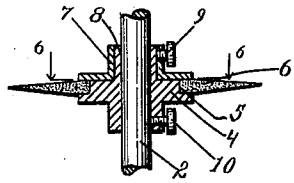

Fig. V.

Witnesses

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CHARLES SEAMAN, OF IRONWOOD, MICHIGAN.

SKIRT-GAGE.

1,092,177. Specification of Letters Patent. Patented Apr. 7, 1914.

Application filed September 8, 1913. Serial No. 788,628.

To all whom it may concern:

Be it known that I, CHARLES SEAMAN, a citizen of the United States, residing at Ironwood, Michigan, have invented certain new and useful Improvements in Skirt-Gages, of which the following is a specification.

This invention relates to improvements in skirt gages.

The main objects of this invention are: First, to provide an improved skirt gage by means of which a skirt may be quickly and effectively marked for the distance from the floor and also properly marked for the hem. Second, to provide an improved skirt gage in which the marking chalk is rotated in contact with the cloth, thereby effectively marking the same. Third, to provide an improved skirt gage having these advantages, which is simple in structure and very simple and easy to operate.

Further objects, and objects relating to structural details, will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification.

The invention is clearly defined and pointed out in the claims.

A structure which is a preferred embodiment of my invention is clearly illustrated in the accompanying drawing forming a part of this specification, in which:

Figure I is a plan view of a structure embodying the features of my invention. Fig. II is a detail vertical section on a line corresponding to line 2—2 of Fig. I, parts being shown in full lines. Fig. III is a detail horizontal section on a line corresponding to line 3—3 of Fig. II. Fig. IV is a detail horizontal section on a line corresponding to line 4—4 of Fig. II. Fig. V is a detail vertical section through one of the chalk holders, on a line corresponding to line 5—5 of Fig. II. Fig. VI is a detail horizontal section through the chalk holder, on a line corresponding to line 6—6 of Fig. V.

In the drawing similar reference characters refer to similar parts throughout the several views, and the sectional views are taken looking in the direction of the little arrows at the ends of the section lines.

Referring to the drawing, I provide a casing 1 which is adapted as a shoe or base upon which the device may be moved about upon the floor or stand. The casing is preferably shaped as shown in the drawing, as, in this form, it is convenient to grasp by the operator.

At the small end of the casing is the vertical shaft 2 upon which the chalk holders are mounted for adjustment. This spindle is provided with a suitable gaging scale, as indicated. Bearings 3 for the spindle are arranged within the casing, the same being entirely incased. I preferably provide a pair of the chalk holders which are mounted for independent adjustment so that one may be adjusted to mark the height from the floor and the other the hem.

The chalk holder illustrated comprises a body portion 4 shouldered at 5 on its upper side to receive the disk-like pieces of chalk 6 having central holes therein. The clamping collars 7 are secured to the upwardly projecting sleeves 8 of the body members by means of the set screws 9. The chalk holders are adjustably secured upon the shaft by means of the set screws 10.

In the structure illustrated, the spindle is driven by a spring motor. The spring shaft 11 is arranged with its upper end projecting through the top wall 12 of the casing, its lower end being supported by the horizontal piece 13, one end of which is secured to the partition 14 and the other, to the rear wall 15 of the casing. The outer end of the spring shaft is adapted to receive the winding key 16.

A ratchet wheel 17 is secured upon the outer end of the spring shaft, while the locking dog 18 is pivoted at 19 to coact with the ratchet wheel and provided with a finger piece 20 by means of which it may be disengaged to release the spring shaft. The spring is secured to and wound upon the spring shaft in the well-known manner, one end of the spring being connected by the pinions 22 and 23, to the transmission shaft 24. This transmission shaft is provided with a sprocket 25 which is connected to a sprocket 26 on the spindle 2 by means of the chain 27. By this simple mechanism, the spindle is driven so that, when the device is moved along the garment to be marked, effective marking is secured without particular care on the part of the operator. This enables very rapid work; and further, it is much easier than where the chalk is merely drawn across the cloth.

The screw post 21 is arranged through the shaft supporting piece 13 and through the top 12, its nut 28 being secured to the bottom

and the post thus serves to reinforce and brace the parts.

I have illustrated and described my improvements in a simple and effective embodiment. I have not attempted to illustrate or describe various modifications which I contemplate, as this disclosure made will enable those skilled in the art to which this invention relates to embody or adapt the same as may be desirable. I desire, however, to be understood as claiming my improvements specifically in the form illustrated as well as broadly within the scope of the appended claims.

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

1. In a skirt gage, the combination of a casing adapted as a shoe, a vertical spindle, the bearings for said spindle being disposed within the casing, a chalk holder mounted on said spindle, a spring shaft mounted within said casing to project through the top thereof, the outer end of the spindle being adapted to receive a key, a ratchet wheel on said key shaft arranged on the outside of the casing, a locking dog pivoted to coact with said ratchet wheel, said dog being adapted to be released, a driving spring for said spring shaft, and driving connections for said spring shaft to said spindle, consisting of a transmission shaft geared to said spring shaft and having a sprocket thereon, a sprocket on said spindle, and a connecting chain for said sprocket.

2. In a skirt gage, the combination of a casing adapted as a shoe, a vertical spindle, the bearings for said spindle being disposed within the casing, a chalk holder mounted on said spindle, a spring shaft mounted within said casing to project through the top thereof, the outer end of the spindle being adapted to receive a key, a ratchet wheel on said key shaft arranged on the outside of the casing, a locking dog pivoted to coact with said ratchet wheel, said dog being adapted to be released, a driving spring for said shaft, and driving connections for said spring shaft to said spindle.

3. In a skirt gage, the combination of a motor casing adapted as a shoe, a vertical spindle, the bearings for said spindle being disposed within the casing, a chalk holder mounted on said spindle, a spring shaft mounted within said casing adapted to receive a winding key, a ratchet wheel on said key shaft, a locking dog coacting with said ratchet wheel and adapted to be disengaged therefrom, a driving spring for said spring shaft, and driving connections for said spring shaft to said spindle, consisting of a transmission shaft geared to said spring shaft and having a sprocket thereon, a sprocket on said spindle, and a connecting chain for said sprockets.

4. In a skirt gage, the combination of a motor casing adapted as a shoe, a vertical spindle, the bearings for said spindle being disposed within the casing, a chalk holder mounted on said spindle, a spring shaft mounted within said casing and adapted to receive a winding key, a ratchet wheel on said key shaft, a locking dog coacting with said ratchet wheel and adapted to be disengaged therefrom, a driving spring for said spring shaft, and driving connections for said spring shaft to said spindle.

5. In a skirt gage, the combination of a motor casing adapted as a shoe, a vertical spindle, the bearings for said spindle being disposed within the casing, a chalk holder mounted on said spindle for adjustment thereon, and a driving motor for said spindle.

6. In a skirt gage, the combination of a motor and a support therefor, adapted as a shoe, a driven spindle, and a chalk holder mounted on said spindle for adjustment thereon.

7. In a skirt gage, the combination of a vertical spindle, a pair of chalk holders mounted on said spindle for independent adjustment thereon, a support for said spindle adapted as a shoe, and means for driving said spindle while said shoe is being moved about.

8. In a skirt gage, the combination of a vertical spindle, a chalk holder mounted on said spindle, a support for said spindle adapted as a shoe, and means for driving said spindle while said shoe is being moved about.

9. In a skirt gage, the combination of the driven spindle, a chalk holder comprising a body member shouldered to receive a disk of chalk having a central hole therein, said body having a sleeve-like projection above the shoulder, a clamping collar removably secured upon said projection by means of a set screw, and a set screw for adjustably securing said holder to said spindle.

10. In a skirt gage, the combination of the driven spindle, a chalk holder comprising a body member shouldered to receive a disk of chalk having a central hole therein, a clamping collar above said set shoulder, and a set screw for adjustably securing said holder to said spindle.

In witness whereof, I have hereunto set my hand and seal in the presence of two witnesses.

CHARLES SEAMAN. [L. S.]

Witnesses:
JAS. A. SULLIVAN,
MILTON LA MARCHE.