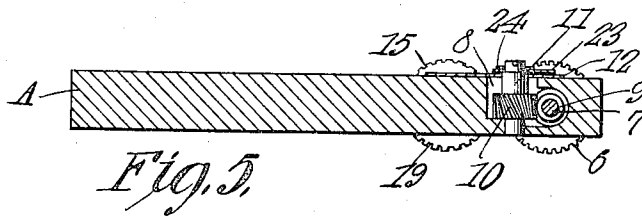
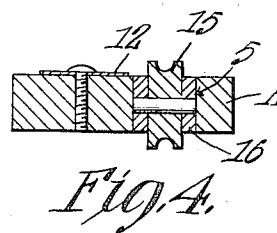
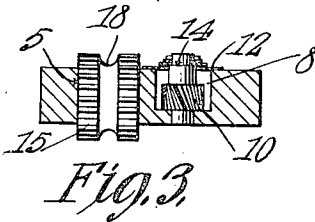
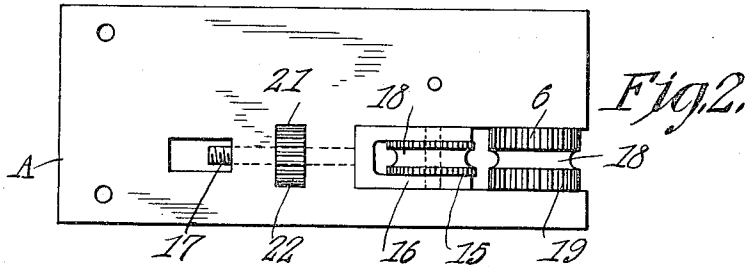
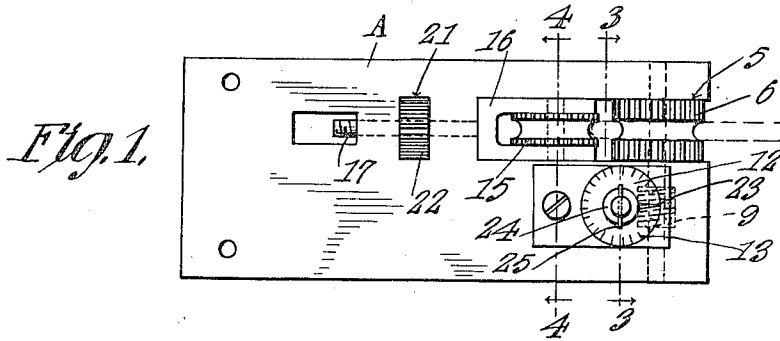


G. F. EASON.
MEASURING MACHINE.
APPLICATION FILED MAR. 16, 1917.

1,289,705.

Patented Dec. 31, 1918.



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GEORGE FELIX EASON, OF MANNING, ARKANSAS.

MEASURING-MACHINE.

1,289,705.

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To all whom it may concern:

Be it known that I, GEORGE FELIX EASON, a citizen of the United States, residing at Manning, in the county of Dallas and State of Arkansas, have invented certain useful Improvements in Measuring-Machines, of which the following is a specification, reference being had therein to the accompanying drawing.

10 The invention relates to a measuring machine, and more particularly to the class of rope measurers.

The primary object of the invention is the provision of a machine of this character wherein rope can be measured in any required length and such length accurately determined, thereby obviating the necessity of the measuring of the rope by hand with a rule or other like device.

20 Another object of the invention is the provision of a machine of this character wherein the construction thereof is novel in form so that the same can be readily adjusted relative to the cross sectional size of the rope to be measured and also to avoid any possibility of the slipping of the rope during the letting out thereof and the measuring operation of the machine.

25 A further object of the invention is the provision of a machine of this character which is extremely simple in construction, strong, durable and efficient in operation and inexpensive in manufacture.

30 Other objects will be in part obvious and in part hereinafter set forth.

The invention accordingly consists in the features of construction, combination of elements and arrangement of parts which will be exemplified in the construction hereinafter described, and the scope of the application of which will be indicated in the appended claims.

In the accompanying drawing:

35 Figure 1 is a top plan view of the machine constructed in accordance with the invention;

Fig. 2 is a bottom plan view thereof;

Fig. 3 is a sectional view on the line 3—3 of Fig. 1;

40 Fig. 4 is a sectional view on the line 4—4 of Fig. 1;

Fig. 5 is a vertical longitudinal sectional view through the machine.

Similar reference characters indicate cor-

responding parts throughout the several views of the drawing.

Referring to the drawing in detail, the measuring machine comprises a main support A, preferably in the form of a board or plate, either in a single piece or made in sections, the said board or plate being adapted for attachment to a counter or other stationary element, and is formed with an elongated slot 5, which is disposed longitudinally therein and opens through one end of the same. Within this slot 5 is arranged a feed roller 6 fixed to a journal 7 having its bearing in the support A, and lying transversely of a recess or chamber 8 formed in the support A at one side of the slot 5, the journal 7 within the slot of the chamber being formed with a worm screw 9 meshing with a worm gear or wheel 10 which is arranged within the chamber or recess 8 and has its shaft 11 suitably journaled in the support A and in a dial plate 12 which is fastened upon the top of the support A to close the recess or chamber 8, and on the outer face thereof, concentrically of the shaft 11 has printed or otherwise marked a measuring scale 13, the upper end of the shaft being reduced to form a shoulder 14 for a purpose presently described.

Coöperating with the feed roller 6 is a guide roller 15, the same being journaled within a forked bearing 16 which is formed with a screw threaded stem 17, and this bearing 16 is movable within the slot 5 so as to regulate the position of the guide roller 15 relative to the feed roller 6, these rollers being formed with peripheral grooves 18 for the rope which is adapted to be trained therebetween, while on opposite sides of the grooves, at the peripheries of the rollers, are corrugations 19 which prevent the slipping of the rope or the working of the same from the grooves in said rollers when the machine is in operation.

The stem 17 of the bearing 16 is slidable through a web 20 separating the slot 21 from the slot 5, and this slot 21 is occupied by an adjusting nut 22 which is threaded on the screw stem 17 so that the bearing can be manually adjusted for the proper positioning of the rollers 6 and 15 relative to each other.

On the reduced end of the shaft 11 is car-

ried a pointer or indicator hand 23 which rests against the shoulder 14 and is frictionally held in adjusted position through the medium of a resilient washer 24 which is retained in place upon the shaft by a cross pin 25 mounted therein, and this pointer or hand 23 coöperates with the indicia of the scale 13 so that an observer can accurately determine the measurement of the rope relative to length.

From the foregoing description, taken in connection with the accompanying drawing, the construction and operation of the herein described measuring device will be readily apparent and, therefore, a more extended explanation has been omitted.

Having thus described my invention, I claim:

1. In a device as described, in combination, a base-board, said base-board being cut away to provide a longitudinal slot, a bearing slidable in said slot and provided with opposing arms, a pin mounted within said arms, a grooved wheel mounted upon said pin, said grooved wheel being formed with opposing spur side edges flanking said groove, a stem upon said bearing, said base-board being formed with a longitudinal bore communicating with said slot, and with an opening registering with the other end of said bore, and also with another opening intersecting the length of said bore, a toothed wheel for actuating said stem and fitting said last-named opening, the free end of said stem adapted to ride within the first opening, a fixed grooved wheel journaled within the edges of said slot in advance of said bearing, an indicator on said base-

board, and a movable pointer on said indicator controlled by the last-named grooved wheel.

2. In a device as described, in combination, a base-board, said board formed with a countersunk recess, a spindle rotatably mounted in said base-board below said countersunk recess, a worm wheel upon said spindle in said recess, said board being also formed laterally of said recess with a longitudinal slot, and having a transverse passage registering with said recess and also with said slot, a pin bridged across said slot and engaged transversely within said base-board, a worm on said pin meshing with said worm wheel and disposed snugly in said passage, a wheel upon said pin rotating in said slot, a plate secured upon said base-board and inscribed with a circular series of indications, said spindle projecting above said plate, and a pointer carried by said projecting end of said spindle and engaging said plate to mark off said indications.

3. In a device as described, in combination, a base-board formed with an elongated slot, a pin spanning said slot at one end of said base-board, a grooved wheel fixed upon said pin so as to revolve with the same, a longitudinally-movable carriage in said slot, a grooved wheel journaled in said carriage, means whereby said carriage is actuated so as to move toward and from the first-named grooved wheel, means for holding said carriage against displacement as it slides in said slot.

In testimony whereof I affix my signature.
GEORGE FELIX EASON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."