

No. 700,286.

Patented May 20, 1902.

E. L. ARTHUR.
LOG MEASURER AND REGISTER.

(Application filed May 26, 1900. Renewed Apr. 17, 1902.)

(No Model.)

Fig. 1.

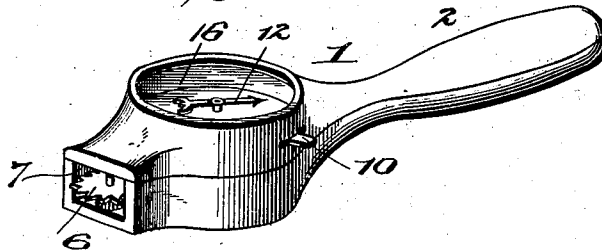


Fig. 2.

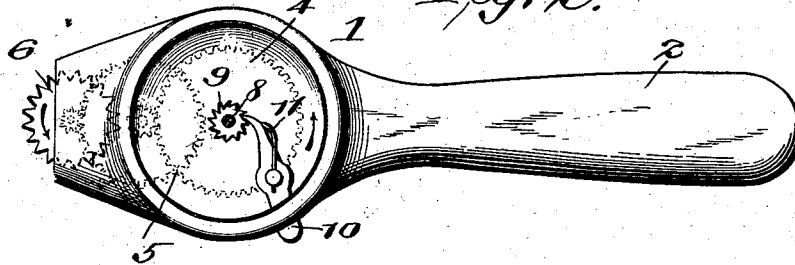


Fig. 3.

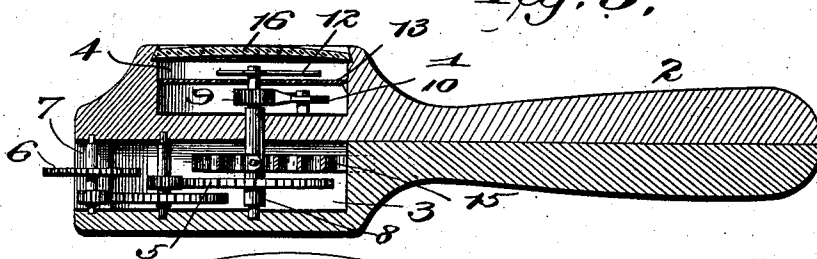
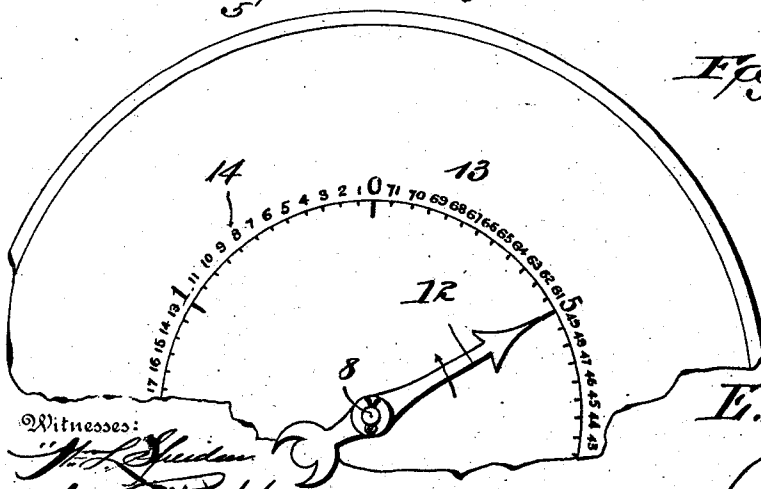


Fig. 4.



Witnesses:

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ERNEST L. ARTHUR, OF FAYETTEVILLE, WEST VIRGINIA.

LOG MEASURER AND REGISTER.

SPECIFICATION forming part of Letters Patent No. 700,286, dated May 20, 1902.

Application filed May 26, 1900. Renewed April 17, 1902. Serial No. 103,391. (No model.)

To all whom it may concern:

Be it known that I, ERNEST L. ARTHUR, a citizen of the United States, residing at Fayetteville, in the county of Fayette and State of West Virginia, have invented a new and useful Log Measurer and Register, of which the following is a specification.

My invention relates to measurers and registers, and more especially to that class of devices used in measuring lumber; and it has for its object to produce a device of this kind which will be convenient, simple, and efficient.

With these objects in view my invention consists in the improved construction and novel arrangement of parts of a log measurer and register, as will be hereinafter more fully set forth.

In the accompanying drawings, in which the same reference-numerals indicate corresponding parts in each of the views in which they occur, Figure 1 is a perspective view of my improved log measurer and register. Fig. 2 is a top plan view of the same, the dial being removed and some of the parts being shown in dotted lines. Fig. 3 is a longitudinal sectional view of my invention, and Fig. 4 is a plan view of the dial.

In practicing my invention I provide a suitable casing or receptacle 1, within which are journaled the operative parts, and one side is extended to form a handle 2, by means of which the instrument may be held in the hand and applied to the log or other article being measured. The casing and handle are preferably divided longitudinally, and each part is provided with a hollow or cut-away portion 3 and 4, respectively. Within the recess 3 is located a train of gearing 5; which may consist of any desired number of wheels, although I prefer to use four gear-wheels and a spur-wheel 6. The spur-wheel is journaled near the side of the casing opposite the handle and projects through an opening 7 in position to be held in engagement with the log being measured. The shaft 8 at the opposite end of the train of gearing projects through the bottom of the opening in the upper portion of the casing and is provided with a toothed wheel 9 of any suitable size. A catch or release lever 10 is pivotally secured in position to engage with the teeth of the wheel 9 at one

end and have its opposite end extend through the wall of the recess in position to be moved by the operator when desired. A spring 11 is arranged to engage with the catch and normally hold its inner end in engagement with the toothed wheel. The upper end of the shaft is provided with a hand 12, which is caused to move around above the dial 13 as the spur-wheel 6 is revolved by its engagement with the lumber being measured. The dial has on its outer face a circular row of figures 14, representing inches and feet, along which the hand or pointer 12 is adapted to pass, so as to thereby indicate the distance traversed by the appliance in measuring a log. Secured to the shaft 8 within the opening or casing 3 is a spring 15, the opposite end of which is secured to the wall of the casing in any desired manner. As the train of gearing is rotated by the spur-wheel the hand is carried around over the dial, the teeth of the wheel 9 being preferably so arranged as to permit the catch to engage therewith for every inch that the spur-wheel moves forward.

In using my measurer and register the instrument is held in the hand and moved over the lumber to be measured, during which operation the spring will be gradually wound and the hand will be slowly moved around over the dial, the catch engaging with the toothed wheel at every inch and preventing the return movement of the dial when the toothed wheel is removed from contact with the lumber. After the lumber has been measured a glance at the dial will indicate the number of inches traveled by the instrument and also the number of feet in the board or log being measured. By disengaging the catch from the toothed wheel the spring instantly returns the pointer to the place of beginning ready for measuring another piece of lumber. It is evident that by making the parts of the proper proportion the instrument can be used to measure a great number of pieces of lumber without having to be reset for each separate piece, as the dial can be made sufficiently large to indicate a great number of feet and the train of gearing can be so arranged as to cause the hand to move at a correspondingly slow rate of speed around over the dial.

It will be evident that changes can be made, and I reserve the right to make such changes and alterations in the form and construction of my improved log measurer and register as
5 will come within the scope of my invention.

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

In a lumber-gage, the combination, with a
10 two-part casing, each part of which is provided with a recess, of a train of gearing in one of the recesses, one end of which is provided with a spur-wheel which extends through the wall of the recess in position to
15 be in engagement with the lumber being

measured, a shaft at the other end of the train of gearing projecting through the bottom of the recess in the other part of the casing, a toothed wheel and a pointer on the projecting end of said shaft, a catch for en- 20 gaging with the toothed wheel, the free end of which projects through the side of the casing, a dial under the pointer, and a spring for returning the toothed wheel and pointer to their normal positions, substantially as de- 25 scribed.

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Witnesses:

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