

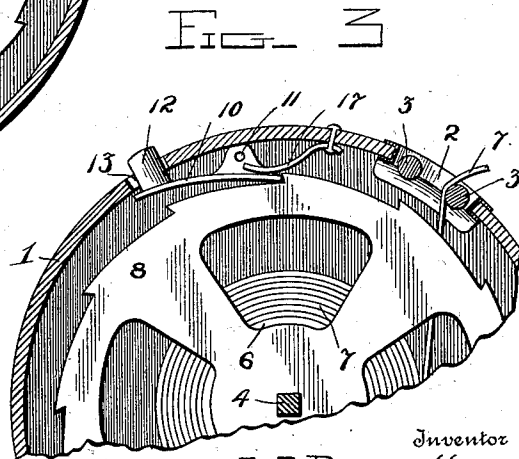
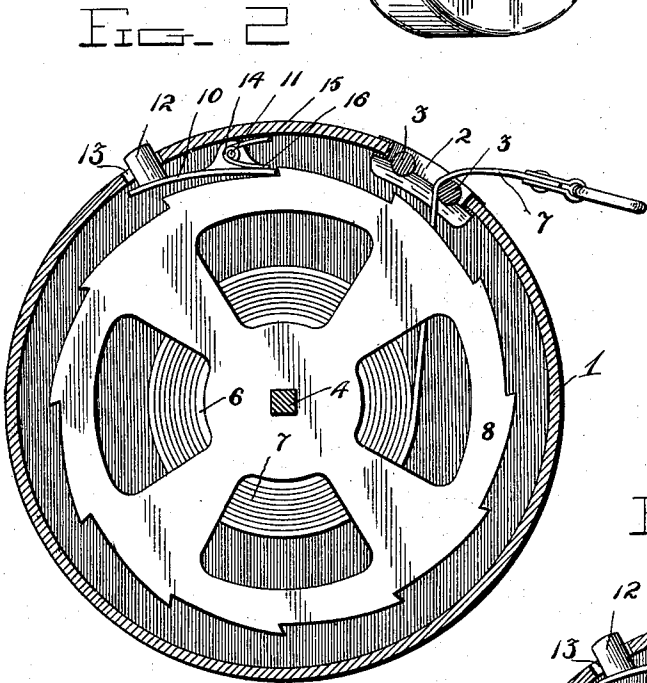
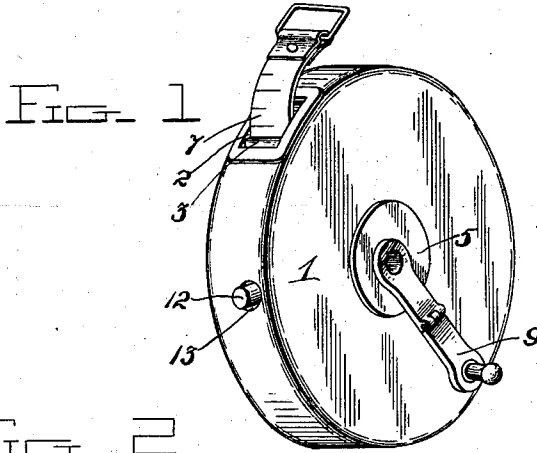
No. 655,052.

Patented July 31, 1900.

J. J. BRUNELLO.  
TAPE MEASURE.

(Application filed Jan. 11, 1900.)

(No Model.)



Inventor

J. J. Brunello

Witnesses

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# UNITED STATES PATENT OFFICE.

JOHN J. BRUNELLO, OF MAYBEURY, WEST VIRGINIA.

## TAPE-MEASURE.

SPECIFICATION forming part of Letters Patent No. 655,052, dated July 31, 1900.

Application filed January 11, 1900. Serial No. 1,123. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN J. BRUNELLO, a citizen of the United States, residing at Maybeury, in the county of McDowell and State of West Virginia, have invented certain new and useful Improvements in Tape-Measures; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention relates to tape-measures.

The object of the invention is to provide a tape-measure which shall be simple of construction, durable in use, and comparatively inexpensive of production and which will be provided with means for locking the tape-reel after the tape has been withdrawn the desired distance, and thereby prevent the further unwinding of the reel.

To this end the invention consists in certain features of construction and combination of parts, which will be hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of the improved tape-measure. Fig. 2 is a vertical sectional view. Fig. 3 is a vertical sectional view of a modification.

Referring to the drawings, in which the same reference characters indicate the same parts of the invention, 1 denotes the casing of the tape-measure, having the usual aperture 2 in its periphery for the running of tape, said aperture being provided at its ends with friction-rollers 3, said rollers being journaled in the rectangular frame, which is fitted to the walls of the aperture and secured to the casing.

4 denotes the reel-shaft, journaled in suitable bearings 5, provided with a tape-reel 6, to which one end of the measuring-tape 7 is secured.

8 denotes a ratchet-wheel fixed to the shaft 4, and 9 denotes the folding crank fixed to said shaft and by means of which the shaft is rotated.

10 denotes a dog pivoted within the casing on a transverse pivot-pin 11, one end of said dog being adapted to engage the ratchet-wheel and lock it against rotation in the unwinding of the tape and the other end of said

dog being provided with a stud 12, which projects through an aperture 13 in the periphery of the casing and by means of which the forward end of the dog may be released from the ratchet-wheel and the reel be permitted to unwind in the measuring off of the measuring-tape.

Upon the shaft is placed a coil-spring 14, the arm 15 of which bears against the periphery of the casing and the arm 16 of which bears against the forward end of the dog to hold it in engagement with the ratchet-wheel. A modification of this means is shown in Fig. 3, in which a leaf-spring 17 is provided, said spring being connected at one end to the periphery of the casing and bearing at its other end against the forward end of the dog.

The operation of the device is as follows: The reel is held in the hand, and the stud 12 pressed downwardly releases the dog from engagement with the ratchet-wheel. The measuring-tape may now be drawn off the desired distance, and when this has been done the pressure is removed from the stud, which permits the dog to engage the ratchet-wheel, and thereby prevent further unwinding of the tape. When it is desired to wind the tape upon the reel, the winding-crank 9 is operated in the usual manner, the dog not interfering with the movement of the ratchet-wheel in the winding up of the tape, and if it be desired to render the device noiseless in winding up the tape the lug may be depressed, so as to free the forward end of the dog from engagement with the ratchet-wheel, and thus prevent the clinking noise.

From the foregoing description, taken in connection with the accompanying drawings, the construction, operation, and advantages of my improved tape-measure will be readily apparent without requiring an extended explanation.

It will be seen that the device is simple of construction, that said construction permits of its manufacture at small cost, and that it is exceedingly well adapted for the purpose for which it is designed.

Having thus described the invention, what is claimed, and desired to be secured by Letters Patent, is—

A tape-measure comprising the case, provided with an opening in its periphery, a

frame fitted to the walls of the opening and secured in the casing, guide-rollers journaled in said frame, the reel-shaft journaled in said casing, the tape-reel secured within the casing to said reel-shaft, an operating-handle 5 secured to the said shaft, a ratchet-wheel secured to said shaft, a spring-dog pivoted in the casing, one end of said dog being engaged with the stud that projects through an aperture in the casing, while the other end of the 10 dog is adapted to engage the ratchet-wheel,

and the measuring-tape secured to said reel and leading out from the casing between the said rollers, substantially as and for the purpose set forth.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOHN J. BRUNELLO.

Witnesses:

R. J. BARKSDALE,  
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