No. 641,050. Patented Jan. 9, 1900.

J. O. SMITH.

TAPE LINE REEL.

(Application filed Mar. 8, 1899.)

(No Model.)

FIG. 1.

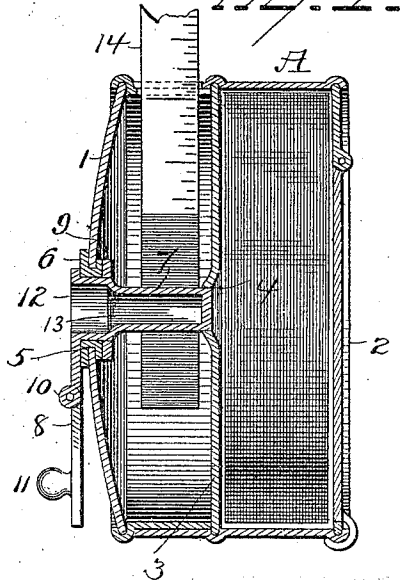
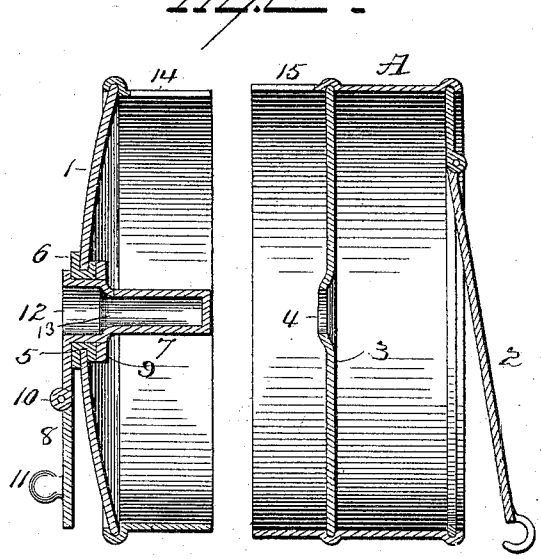


FIG. 2.



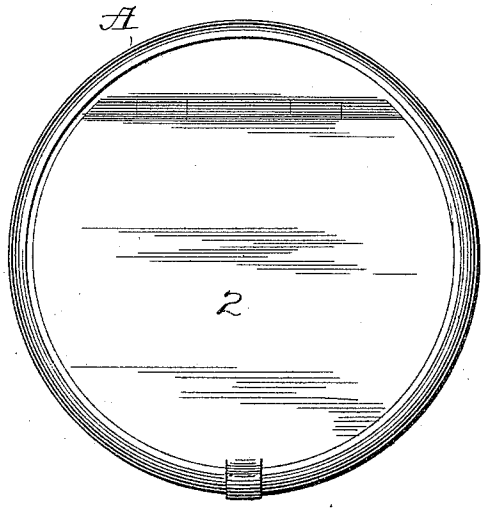


FIG. 3.

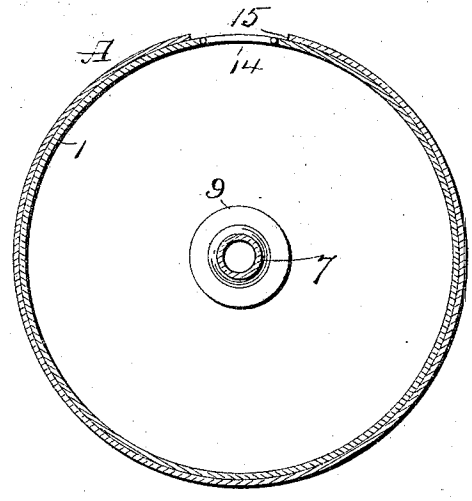


FIG. 4.

WITNESSES

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TAPE-LINE REEL.

SPECIFICATION forming part of Letters Patent No. 641,050, dated January 9, 1900.

Application filed March 8, 1899. Serial No. 708,250. (No model.)

To all whom it may concern:

Be it known that I, JOHN O. SMITH, of Denver, in the county of Arapahoe and State of Colorado, have invented certain new and useful Improvements in Tape-Line Reels; and I do hereby 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.

My invention relates to an improvement in tape-line reels, the object being to provide a reel-casing made of separable sections, whereby the tape-line confined therein may be readily gotten at for repairs.

A further object is to provide a reel-casing having a compartment therein for holding a tablet or other device on which records of measurements may be transcribed and preserved.

With these ends in view my invention consists in certain novel features of construction and combinations of parts, as will be hereinafter more fully described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a sectional view of my improved tape-line reel. Fig. 2 is a similar view, the two sections comprising the reel-casing being shown in a separated position. Fig. 3 is a bottom plan view of the reel-casing; and Fig. 4 is a sectional view through the overlapping sides of the reel-casing sections, showing the registering tape-line openings.

A represents one section of the reel-casing, and 1 the other or telescoping section thereof. The section A is provided at one end with a hinged door 2 and at a point near its center with a partition 3, the latter having a centrally-located opening 4, the side walls surrounding said opening being bulged inwardly and out of alinement with said partition, so as to form a bearing for the inner end of the tape-reel shaft or axle. The central opening 5, formed in the concaved end wall of section 1, is provided with a bushing 6, the flanged top and bottom sections thereof overlapping the side walls of said central opening. This bushing constitutes a bearing for the enlarged section of shaft 7 and in which the latter revolves. Shaft 7 is revolved by means of a handle 8, secured to its projecting outer end, and as said handle overlaps the outer flanged section of bushing 6 it will be apparent that inward movement on the part of said shaft will be prevented. Secured on shaft 7 is a collar 9, the outer face of which rests in contact with the inner flanged section of bushing 6, thus rendering it impossible for said shaft to be moved in an outward direction.

Handle 8 is preferably made in two sections hinged together, as shown at 10, the section carrying knob 11 being adapted to be folded upon the section secured to shaft 7. Said knob when the sections are folded rests within the registering openings 12 and 13, formed in said handle and shaft, respectively.

Sections A and 1 of the reel-casing when in their normal or telescoping position, as shown in Fig. 1, may be supported against accidental displacement by frictional contact of their overlapping side walls, or they may be provided with indentations and corresponding projections adapted to aline when the sections are in the position above stated.

One end of the tape-line or other measuring device 14 is secured to the small or contracted section of shaft 7 in the usual manner, while the opposite or ring end thereof is located on the outside of sections A and 1, the tape-line when unwound or wound passing through the registering slots 14 15, formed in the overlapping side walls of said sections.

Within the compartment formed by hinged door 2 and partition 3 is located a tablet or other device, on which measurements may be written and preserved until they have served their purpose. In lieu of a tablet a small book composed of a number of pages on which measurements may be transcribed either with a slate or lead pencil may be employed, the surface of the pages being so prepared that the data written thereon may be rubbed out when it has served its purpose, thus rendering it possible to use the same book an unlimited time.

From the foregoing it will be apparent that a very simple, inexpensive, and durable tape-line reel and casing is obtained, one in which access to the working parts may be readily had when repairs to the tape or other parts are necessary, and one in which provision is

made for the transcribing and safe preservation of data.

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

1. The combination of two hollow sections adapted to be removably held together against accidental displacement, means in one section for supporting a tape-line a partition located in the other of said sections and a door opening into the compartment formed by said partition.

2. A tape-line reel, consisting of two sections removably connected together, a partition dividing one of said sections into compartments, a movable cover for the outer compartment, and a shaft for supporting a tape-line mounted in the other section.

3. The combination of a casing comprising two sections removably connected together, a reel located in one section, a partition located in the other section and dividing the same into two compartments, a door for closing one of said compartments, the first-mentioned section of the casing entering the outer compartment, and the reel-shaft mounted in the first-mentioned section having a bearing in said partition and a handle for turning said reel.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JOHN O. SMITH.

Witnesses:
WILLIAM B. WARNER,
THEO. VANDEVENTER.