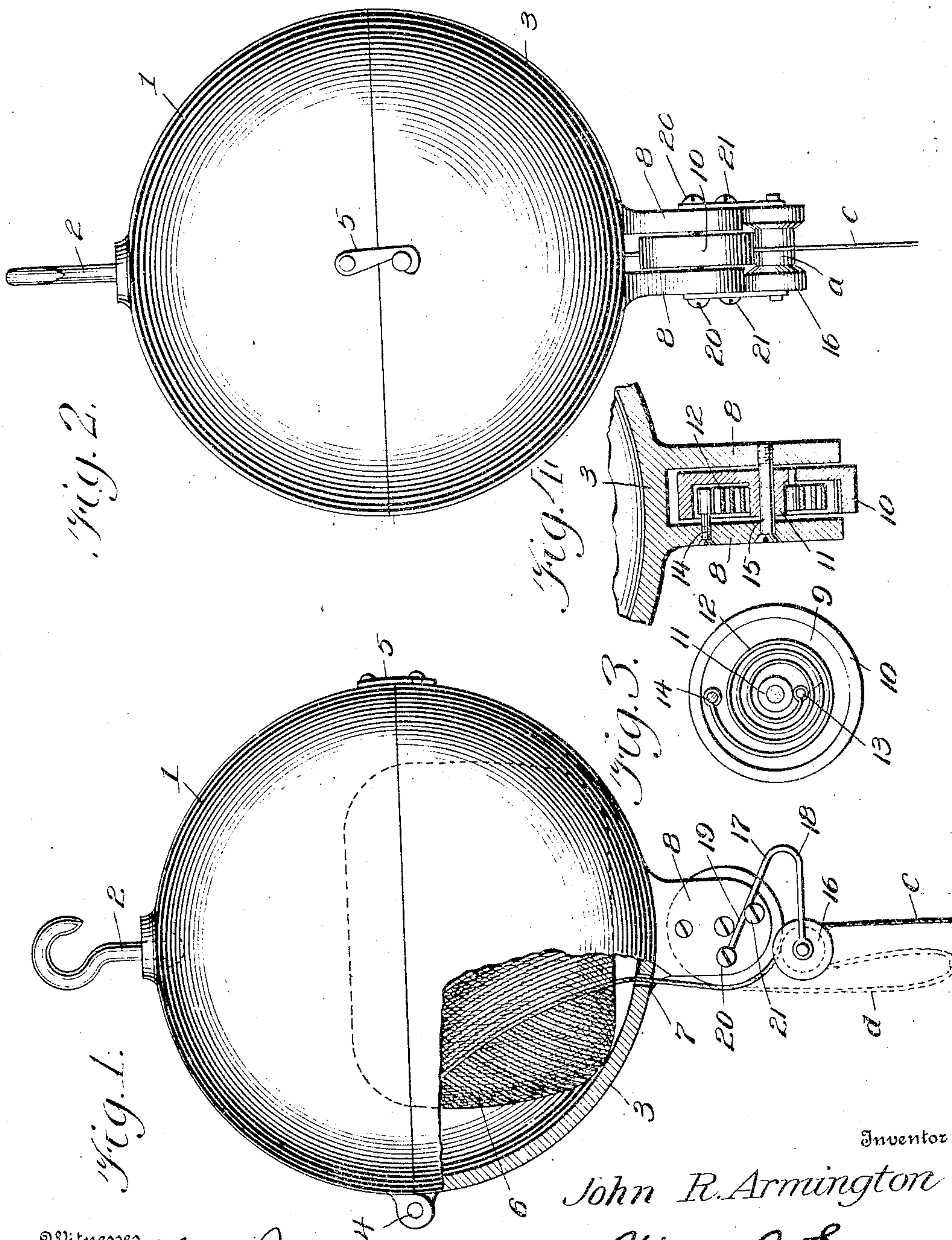


J. R. ARMINGTON.
 TWINE HOLDER.
 APPLICATION FILED DEC. 29, 1908.

Patented Feb. 9, 1909.

912,224.



Witnesses
 Geo. Ackman Jr.
 E. R. Bump

Inventor
 John R. Armington
 By Victor J. Evans
 Attorney

UNITED STATES PATENT OFFICE

JOHN R. ARMINGTON, OF ROANOKE, VIRGINIA.

TWINE-HOLDER.

No. 919,324.

Specification of Letters Patent.

Patented Feb. 9, 1909.

Application filed December 23, 1905. Serial No. 333,790.

To all whom it may concern:

Be it known that I, JOHN R. ARMINGTON, a citizen of the United States of America, residing at Roanoke, in the county of Roanoke and State of Virginia, have invented new and useful Improvements in Twine-Holders, of which the following is a specification.

This invention relates to twine holders, and one of the principal objects of the same is to provide a simple and efficient device for holding a ball of twine and for permitting the twine to be unreeled for use, said twine holder being provided with means for reeling up the surplus twine after use in order that the end of the twine may not be in the way.

Another object of the invention is to provide a twine holder having a spring drum and a roller connected thereto between which the twine as it passes from the holder is confined, said spring drum being wound against the tension of the spring as the twine is unreeled from the holder, and said drum carrying the twine back after the end has been released in tying a parcel.

These and other objects may be attained by means of the construction illustrated in the accompanying drawing, in which,—

Figure 1 is a side elevation and partial section of a twine holder made in accordance with my invention. Fig. 2 is a side elevation taken at right angles to Fig. 1. Fig. 3 is a view looking at one side of the spring drum. Fig. 4 is a detail section through the spring drum and the bearing lugs therefor.

Referring to the drawing, the numeral 1 designates the upper section of the twine holder provided with a swiveled hook 2 by means of which the holder may be suspended from a ceiling or other support.

3 is the lower section of the holder, the sections 1 and 3 being hinged together, as at 4, and provided with a suitable latch 5 by means of which the two sections may be held together in closed position. The members 1 and 3 are hollow and designed to contain a ball of cord 6, the end of said cord being passed through an opening 7 at the bottom of the member 3.

Integral bearing lugs 8 are formed on the member 3, said lugs being spaced apart to receive the spring drum 9, said spring drum comprising the annular flange 10 and a central hub 11, the inner end of said spring

being connected by a pin 13 to the drum, while the outer end of said spring is connected to a screw 14 extending through one of the lugs 8, said spring being bent around said screw, as shown more particularly in Fig. 3. The spring drum is pivoted upon a screw 15 extending through the lugs 8 and through the hub 11. A roller or spool 16 is supported upon the lugs 8 by means of spring arms 17 to which the roller 16 is journaled, said spring being bent at 18 and provided with an arm 19, the end of which is connected by means of a screw 20, while the arm 19 is supported by means of a stop screw 21. Thus the periphery of the flange 10 bears against the periphery of the roller 16, and the cord from the ball 6 passes between the flange 10 and the periphery of the roller 16.

The operation of my invention may be briefly described as follows: In tying a package with the cord *c* a sufficient quantity of the cord is withdrawn from the ball 6. As the cord is unreeled from the ball and pulled downward the spring drum is wound against the tension of its spring. After the cord *c* has been severed and released at its free end, the uncoiling of the spring 12 will carry the cord upward and form a loop *d*, as shown in dotted lines in Fig. 1, thus carrying the lower end of the cord out of the way. When it is again desired to use the cord, the surplus is pulled down, and after the cord has been used it is severed, and again a loop *d* is formed to carry the lower end of the cord out of the way.

From the foregoing it will be obvious that my invention, while simple in construction, is efficient for its purpose, will always hold the end of the cord up out of the way, that the device can be manufactured at low cost and will operate smoothly for its purpose.

I claim:—

1. A twine holder provided with a spring drum, and a roller journaled in spring arms and bearing against the periphery of said drum, the strand of cord from the holder passing between said drum and roller.

2. A twine holder comprising a hollow casing provided with spaced lugs at the bottom thereof, a spring drum journaled between said lugs, and a roller connected to said lugs by means of oppositely disposed spring members.

3. In a twine holder, the combination of a

spring drum journaled to the twine holder, and a spring-mounted roller bearing at its periphery against said drum, whereby the cord after use is drawn backward to carry
5 the end up out of the way.

4. A twine holder comprising a hollow casing provided with an aperture through which the twine extends, integral lugs formed on said casing, a spring drum jour-
10 naled between said lugs, a roller mounted upon the spring arms and secured to said lugs, said roller bearing against the periphery of said drum, whereby the twine in

passing between the roller and drum winds up the spring as it is unreeled from 15 the holder and is carried back by the uncoiling of the spring in the drum after use to dispose the end of the cord up out of the way.

In testimony whereof I affix my signature 20 in presence of two witnesses.

JOHN R. ARMINGTON.

Witnesses:

L. E. LOCKETT,
ROY FITCH.