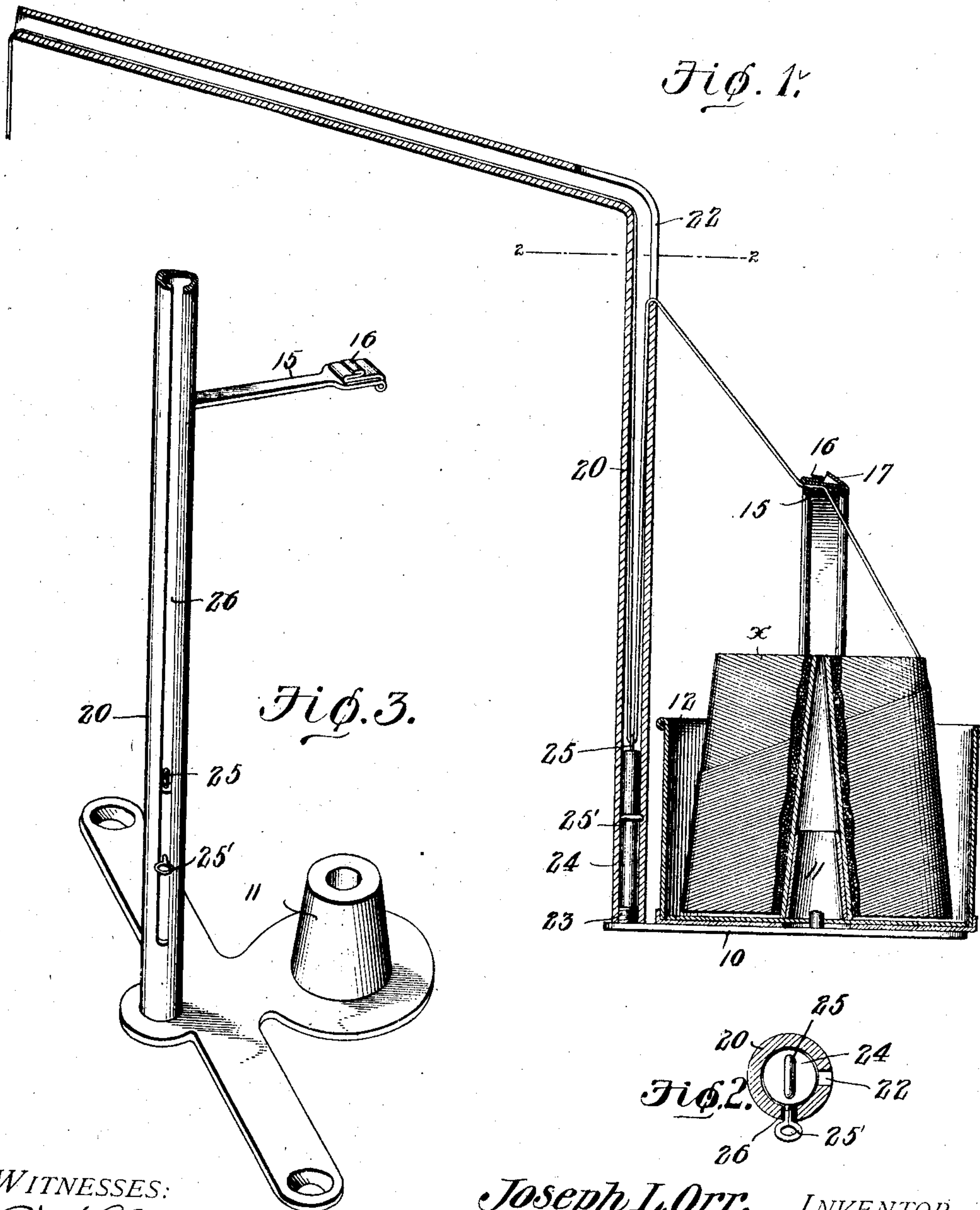


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J. L. ORR.
TWINE HOLDER AND TAKE-UP.
APPLICATION FILED FEB. 7, 1906.



WITNESSES:
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UNITED STATES PATENT OFFICE.

JOSEPH LAWRENCE ORR, OF LYNCHBURG, VIRGINIA.

TWINE HOLDER AND TAKE-UP.

No. 834,01.

Specification of Letters Patent.

Patented Oct. 23, 1906.

Application filed February 7, 1906. Serial No. 299,977.

To all whom it may concern:

Be it known that I, JOSEPH LAWRENCE ORR, a citizen of the United States, residing at Lynchburg, in the county of Campbell and State of Virginia, have invented a new and useful Twine Holder and Take-Up, of which the following is a specification.

This invention relates to devices of that class employed for holding and taking up twine and used in stores for the purpose of drawing back the end of the twine or string after the tying of a package.

The principal object of the invention is to provide a twine holder and take-up of very simple and economical construction and which may be employed to take up a fixed length of twine at each operation without withdrawing any twine from the ball or cone.

A further object of the invention is to provide a device of this type in which the take-up member may be readily threaded or connected to the twine.

With these and other objects in view, as will more fully hereinafter appear, the invention consists in certain novel features of construction and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that various changes in the form, proportions, size, and minor details of the structure may be made without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawings, Figure 1 is a sectional elevation of a twine holder and take-up constructed in accordance with the invention. Fig. 2 is a sectional plan view of the weight-guiding tube on an enlarged scale, the view being taken on the plane indicated by the line 2-2 of Fig. 1. Fig. 3 is a perspective view of a portion of the same, the view also illustrating a slight modification in construction.

Similar numerals of reference are employed to indicate corresponding parts throughout the several figures of the drawings.

The device is mounted on a suitable base 10 of any desired form, the base being secured in position on a shelf or other support adjacent to the wrapping-table. To this base is secured a conical guide or support 11, that is arranged for the reception of the ball or cone of twine, and said base is preferably provided with a suitable cup 12, which surrounds

the twine and forms a guard to prevent the catching of any loose loops which may be formed.

At a point above the ball or cone of twine is arranged a friction holding device in the form of a support 15, having an opening for the passage of the twine, and to this support is hinged a friction-plate 16, arranged to rest on the twine and held from excess movement by a small ear or lug 17. The support 15 may be in the form of an inverted-U-shaped arm, extending completely over the ball or cone of twine, or it may be supported in the manner shown in Fig. 3.

Secured to the base 10 is the lower end of a tube 20, the upper end of which extends to a considerable distance above the friction-plate 16 and is bent or turned outwardly for any desired distance. The bend is comparatively sharp, and the two portions of the tube are arranged nearly at a right angle to each other, while the outer wall of the tube at the bending-point and on both sides thereof is provided with a slot 22, through which the twine may be passed while threading the take-up weight.

The bottom of the tube is closed by a removable plug 23, and within said tube fits a take-up weight 24 of an desired construction, the weight being free to slide within the tube and its upper end being provided with an elongated eye 25, through which the twine is threaded. From one side of the weight projects a handle or loop 25', which extends through a vertical slot 26, formed in the wall of the tube. This handle serves to prevent turning of the weight and twisting of the twine and at the same time affords a ready means for raising the weight to threading position.

When the end of the twine is pulled to draw a sufficient length from the ball or cone for the purpose of tying an article, the take-up weight 24 will be drawn up to the top of the vertical portion of the tube, and when the twine is severed and the end released the weight will descend by gravity, and the loose end of the twine will be drawn back to a point near the discharge end of the tube, a portion of the twine always protruding in convenient position to be grasped and withdrawn. It is to be understood that the friction exerted by the plate 16 on the twine is sufficient to prevent the withdrawal of any twine from the ball or cone during descent of

the weight, so that the latter only takes up the loose end which projects from the delivery portion of the tube 20.

In order to thread the weight 24, the handle 25' is pulled up until the eye 25 is in alinement with or is adjacent to the bend of the tube, and with the eye in this position the end of the twine or cord may be readily passed through the slot 22 and the eye and afterward threaded through the approximately horizontal portion of the tube to the delivery end thereof.

The device is very simple and inexpensive in construction and may be readily placed in any position convenient to the wrapping-table.

I claim—

1. In a twine holder and take-up, means for supporting a wound mass of twine, a tube bent to form an approximately vertical portion, and an approximately horizontal delivery portion, the twine being threaded through the latter, a weighted take-up slidably mounted in the vertical portion of the tube and having an eye for the passage of the twine, the tube being slotted at the bend to permit the threading of the twine through said eye.

2. In a twine holder and take-up, means for supporting a wound mass of twine, a twine-

guiding tube bent to form approximately vertical and horizontal portions, there being a slot at the bend of the tube, and the vertical portion of the tube having an elongated slot, a take-up member slidably mounted in the vertical portion of the tube and having an eye for the passage of the twine, and a handle extending outward from the take-up member through the vertical slot.

3. In a twine holder and take-up, means for supporting a wound mass of twine, a support arranged thereabove and having an opening for the passage of the twine, a hinged friction-plate arranged to rest on the twine, a bent tube at one side of the twine-support, said tube having approximately vertical and horizontal arms, and being provided at the bending-point with a slot to permit threading of the twine through the approximately horizontal tube, and a take-up weight slidable in a vertical portion of the tube and provided with an eye through which the twine passes.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOSEPH LAWRENCE ORR.

Witnesses:

A. D. PELTZORF,
G. E. VAUGHAN.