W. M. PALMER.

CLOTHES LINE REEL.

APPLICATION FILED OCT. 4, 1912.

1,111,489.

Patented Sept. 22, 1914.

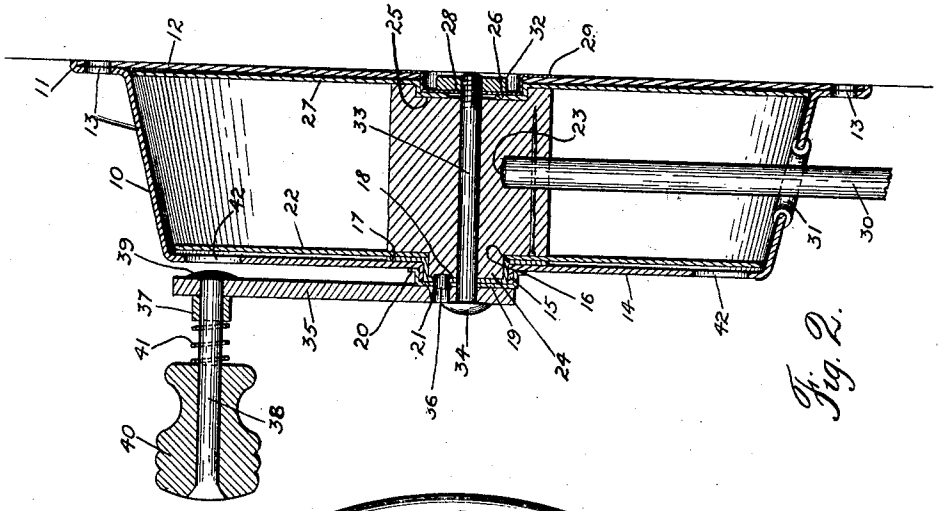


Fig. 2.

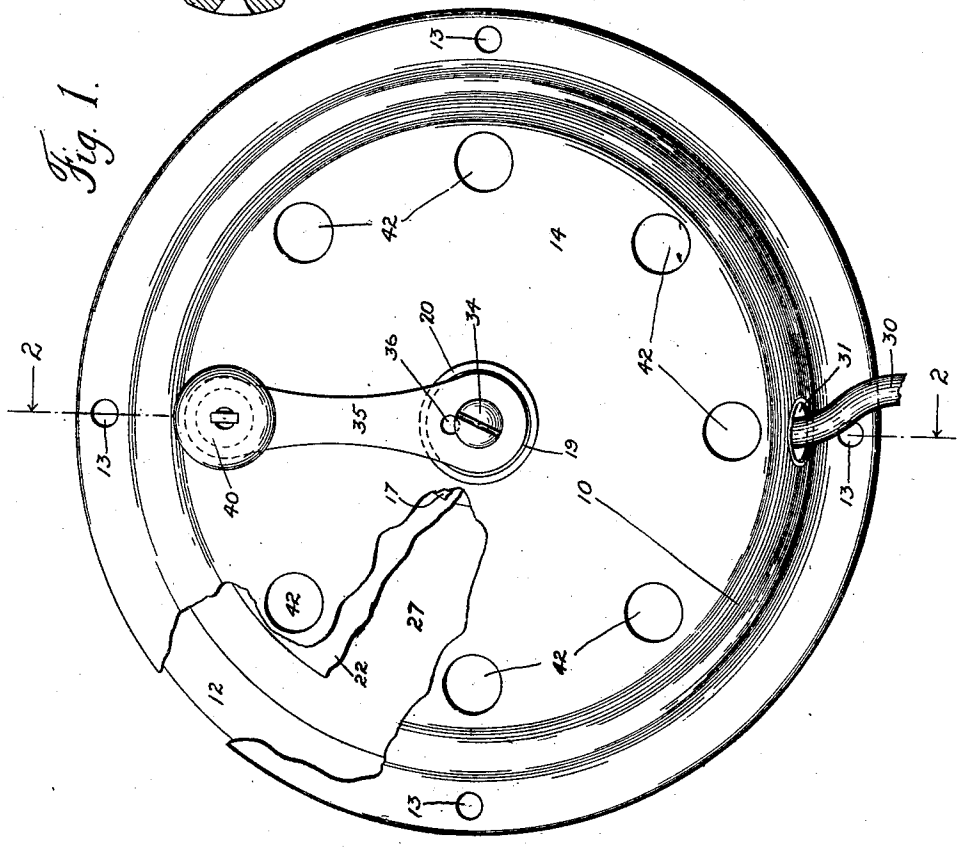


Fig. 1.

Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM M. PALMER, OF NEW YORK, N. Y., ASSIGNOR TO WILLIAM M. PALMER MANUFACTURING COMPANY, INC., OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

CLOTHES-LINE REEL.

1,111,489. Specification of Letters Patent. Patented Sept. 22, 1914.

Application filed October 4, 1912. Serial No. 723,856.

To all whom it may concern:

Be it known that I, WILLIAM M. PALMER, a citizen of the United States, and a resident of the city of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Clothes-Line Reels, of which the following is a specification.

This invention relates to improvements in reels for cords or small ropes such as are used to suspend articles for the purpose of subjecting them to an air current temporarily. Its objects are to provide an apparatus capable of winding such lines upon an inclosed reel, of holding the line taut at any desired point and of releasing the same by simple means; also of affording complete protection to the line as against dust, dirt or injury while it is not in actual use. These objects are attained by the novel construction and combination of parts hereinafter fully described and shown in the accompanying drawings, in which:—

Figure 1 is a front elevation of the complete apparatus, parts being broken away showing the interior, and, Fig. 2 is a transverse sectional view, taken on line 2—2 of Fig. 1.

The apparatus comprises a metallic casing 10 in the shape of a conic section having an outwardly turned flanged base 11 adjacent to which and within the rounded or beaded edge of the flange is a circular plate 12 forming the rear wall; holes 13 are provided through both flange and plate for the purpose of securing the apparatus to its support. The front of the casing 14 is preferably formed integral with the side walls; at the center is an outwardly turned flanged annular ring 15 in which is revolubly mounted the cup member 16, the flange 17 of which contacts with the inside of the casing 14, while the end 18 extends outwardly registering with the edge of the ring 15; a similar but slightly larger cup member 19 overlays the ring 15, its flange 20 being on the outside of the casing while its end 21 covers the end 18 of the inner cup. This construction affords an efficient mounting well adapted for long service and to stand hard usage.

Adjacent to the flange 17, inside of the casing is a disk 22 which forms one end of the spool or drum on which the cord is wound, the cord 30 being secured to the spool center 23 in any approved manner at its inner end, while its outer end extends through the opening 31 formed in the casing; the spool has a center 23 with a projection 24 fitting the cup 16 at its outer end while at the other is a depression 25 adapted to receive the cup shaped annulus 26 of the larger disk 27 which forms the other end of the spool. Within the annulus 26 is another cup member 28 which also passes inwardly through the plate 12, the flanged portion 29 being on its outer side. Within the cup 28 is a nut 32 used for securing the stud or shaft 33 which passes through the several cups and spool center binding them together so that they all turn as a unit; the head 34 of the stud also clamps the handle lever 35 to the outer cup cover 21 and is provided with a rigidly fixed pin 36 which passes through the cup members 18 and 21, extending into the center 23 so that all of the rotative parts are positively driven by the handle lever. At the end of this lever 35 is an integral or rigidly affixed projection 37 in which is freely mounted a stud 38 having a thin head 39 on the side next to the casing, opposite to which is a knob 40 arranged for convenient manipulation; between the end of the projection 37 and the base of the knob 40 is interposed a spring 41 having its helical coils so arranged that the head 39 of the stud is held normally against the inner side of the lever 35, but yieldingly so that the head may be pushed through any one of a plurality of perforations 42 formed in an annular row in the front of the casing 14 and between it and the plate or disk 22.

In operation, the apparatus is firmly secured at any desired point upon a convenient support, as a wall or post; the cord is drawn out and a ring at its extreme outer end—not shown—attached to a hook or its equivalent, whereupon any slack may be taken up and the cord made taut by turning the handle in the proper direction; this being accomplished the knob is pushed inwardly, the head 39 of the stud entered into the nearest perforation and allowed to remain therein, which it will do as the head hooks over or engages with the edge of the perforation, thereby locking the spool against rotation which might otherwise occur by a pull or other stress upon the cord; this is done automatically as the head is of such diameter as to pass readily into the perforation but the body of the stud being smaller allows the

head to become locked until the handle is turned in the opposite direction which frees the head from its engagement and the spring instantly operates to force it out so that the handle can be turned.

It will be noticed that the disk 22 is normally close against the inside of the front casing covering the perforations against the entrance of dust and dirt; even when the thin head of the stud is in a locked position, the disk is but slightly removed.

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

1. A device of the class described, comprising a flanged conical casing, a spool revoluble therein, said spool having heads of varying diameters, cup members arranged internally and externally of said casing, said cup members constituting mountings for said spool, means for rotating said spool and means combined therewith for preventing the rotation thereof, the latter of said means positively engaging with the interior of said casing.

2. In a device of the class described, in combination with a casing having a plurally perforated front plate, a spool revoluble within the casing and a handle for rotating the spool, of a knob slidably mounted in said handle, a detent combined with said knob, said detent being adapted to engage with the inner side at any of the perforations in said front plate and means normally maintaining said detent out of engagement.

3. A device of the class described, comprising a conical casing, a flanged base therefor, said base having holes for attachment formed therein, a spool revolubly mounted in said casing having radial cord connections, flanges on said spool, said flanges being of different diameters to suit said casing, means for rotating said spool and a spring retracted locking means for preventing rotation of said spool combined with said rotating means, said locking means being adapted to detachably engage with openings formed in said casing whereby it is normally held in a locked position.

4. A device of the class described, comprising a casing, having a plurality of apertures on its front side, a spool mounted to revolve therein and an actuating means therefor, in combination with a plunger mounted in said actuating means, a head on said plunger adapted to pass through any of the apertures in the casing engaging on the inner side thereof, and a retractile spring combined with said plunger normally keeping said plunger out of engagement with the casing.

5. In a device of the class described, a casing having a plurality of openings on its front side, a spool mounted to revolve therein and an actuating means therefor, in combination with a locking member mounted in said actuating means, a head on said locking member adapted to pass through any of the apertures in the casing and to engage on the inner side thereof, said actuating means comprising retractile spring means normally keeping said locking member out of engagement with the casing.

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

WM. M. PALMER.

Witnesses:
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L. R. HAYES.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."