A. MADER.

CLOTHES LINE REEL.

APPLICATION FILED DEC. 13, 1909.

964,993. Patented July 19, 1910.

Fig. 1.

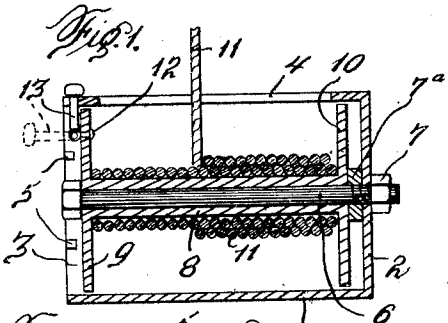


Fig. 2.

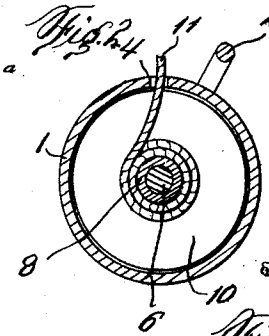


Fig. 4.

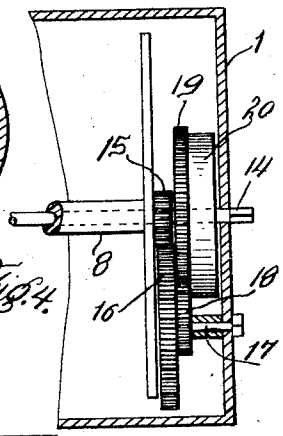


Fig. 3.

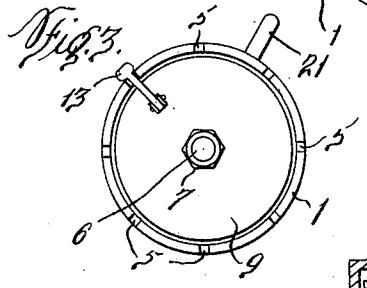


Fig. 5.

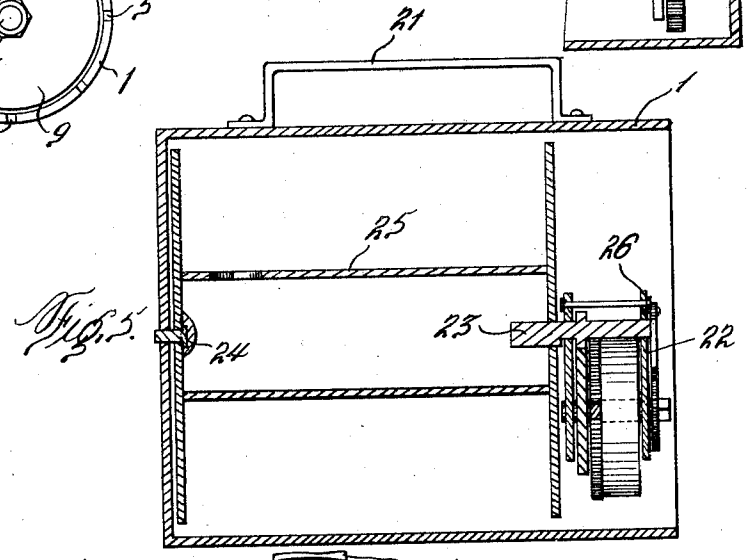
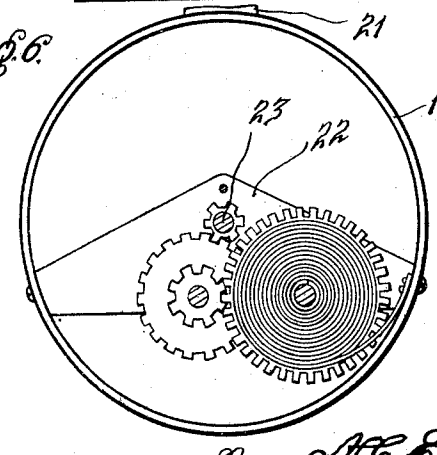


Fig. 6.



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UNITED STATES PATENT OFFICE.

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CLOTHES-LINE REEL.

964,993. Specification of Letters Patent. Patented July 19, 1910.

Application filed December 13, 1909. Serial No. 532,890.

To all whom it may concern:

Be it known that I, ALOIS MADER, a subject of the King of Bavaria, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Clothes-Line Reels, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a clothes line reel, and the object of my invention is the provision of simple and effective means for protecting a clothes line from rain, frost and the forces of nature that would be injurious to the same.

My invention aims to provide a casing containing a revoluble reel to which is attached a clothes line adapted to be wound thereon. At the end of the reel is located a novel lock for holding the reel in a fixed position with relation to the casing, whereby the clothes line cannot accidentally unwind after clothes have been placed upon the same.

The detail construction entering into my invention will be presently described and then specifically claimed.

Referring to the drawings:—Figure 1 is a longitudinal sectional view of a clothes line reel constructed in accordance with my invention, Fig. 2 is a cross sectional view of the same, Fig. 3 is an end view of the clothes line reel, Fig. 4 is an enlarged longitudinal sectional view of a portion of the clothes line reel, illustrating a modification of my invention, Fig. 5 is an enlarged longitudinal sectional view of another modified form of my invention, and Fig. 6 is a cross sectional view of the same.

In the accompanying drawings, 1 designates a cylindrical casing having one end thereof closed, as at 2, and the opposite end thereof open, as at 3. The wall of the casing 1 is provided with a longitudinal slot 4 and the edge of the casing at the open end thereof is formed with a plurality of circumferentially arranged notches 5, the object of which will presently appear.

Mounted in the closed end 2 of the casing and extending longitudinally therein is a bolt 6 which is held in engagement with the casing by a nut 7 and a washer 7^a. Upon this bolt within the casing is revolubly mounted a reel 8 having heads 9 and 10. Wound upon the reel 8 is a clothes line 11, said line having one end thereof fixed to the reel, while the other end extends through the slot 4. The head 9 of the reel 8 adjacent to the periphery thereof is provided with an eyebolt 12 and pivotally connected to this eyebolt is a handle 13, said handle when in the dotted position illustrated in Fig. 1 being employed for rotating the reel, while when in the position illustrated by full lines, said handle engages in one of the notches 5 and prevents the reel from accidentally rotating and unwinding the clothes line thereon.

In Fig. 4 of the drawing, I have illustrated a slight modification of my invention, wherein a spring drum is employed for normally maintaining the clothes line 11 in a wound position within the casing 1. The casing 1 in this instance is provided with a longitudinal shaft 14 upon which is revolubly mounted the reel 8. Secured to the head 10 of said reel is a small gear wheel 15 meshing with a large gear wheel 16, said gear wheel being mounted upon a stub shaft 17, revolubly mounted in the closed end 2 of the casing 1. Upon this stub shaft 17 is a small gear wheel 18 meshing with a large gear wheel 19 loosely mounted upon the shaft 14. Arranged upon the shaft 14 between the large gear wheel 19 and the closed end of the casing 2 is a spring drum 20, this drum being of a conventional form, such as commonly used in the art of horology.

The drum 20 is preferably secured to the large gear wheel 19 with one end of the spring mounted therein attached to the casing 1, whereby when the clothes line 11 is unwound from the reel 8, the spring will be placed under tension and immediately upon the clothes line being released, the spring of the spring drum will, through the medium of the train of gears 15, 16, 18 and 19, rotate the reel 8 and wind the clothes line thereon.

The casing 1 can be suitably secured to a post or similar support, whereby the clothes line contained therein can be readily used for supporting clothes, and for conveniently carrying the casing 1, said casing is provided with a handle 21.

In Figs. 5 and 6 of the drawings I have illustrated still another modification of the invention, wherein the open end of the casing is provided with a triangularly shaped beam 22 and journaled in said beam is a stub shaft 23, which together with a pin 24 is adapted to revolubly support a reel 25

within the casing 1. Connected to the beam 22 is a casing 26 and within said casing is a train of spring actuated gears similar to the gears previously described, these gears rewinding the reel 25 after it has been unwound by the withdrawal of a clothes line.

Having now described my invention what I claim as new, is:—

A clothes line reel comprising a cylindrical casing having a closed end and an open end, said casing having a longitudinal slot formed therein and the edge of said casing at the open end provided with circumferentially arranged notches, a bolt secured in the closed end of said casing and extending longitudinally thereof, a reel journaled upon said bolt and adapted to have a clothes line wound thereon with one end secured to said reel and the opposite end extending through said longitudinal slot, and a handle pivotally connected to the end of said reel at the open end of said casing, said handle being adapted to swing into one of the notches of said casing for holding said reel stationary, substantially as described.

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

ALOIS MADER.

Witnesses:
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