No. 859,812. PATENTED JULY 9, 1907.

H. C. HARNESS.

CLOTHES LINE REEL.

APPLICATION FILED JULY 12, 1906.

Fig. 2.

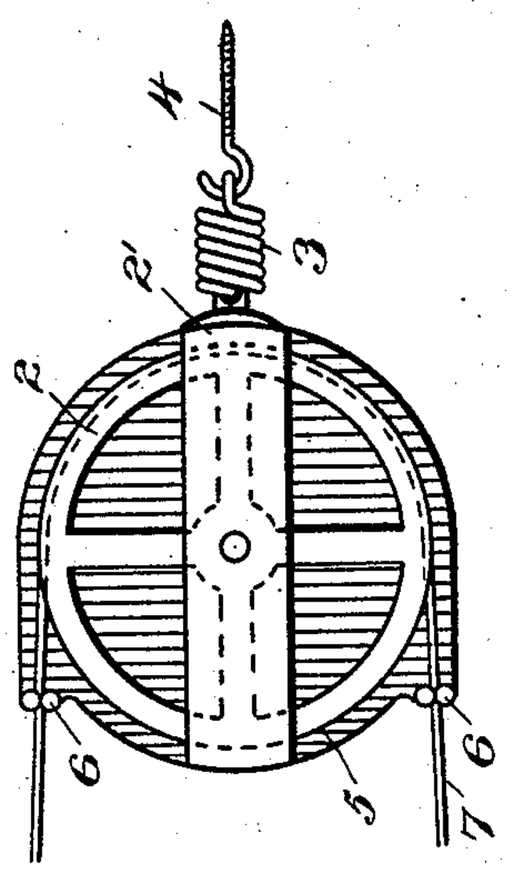


Fig. 4.

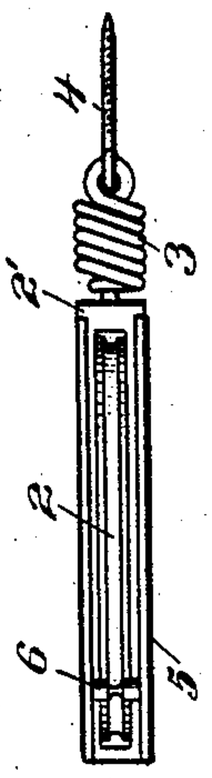


Fig. 5.

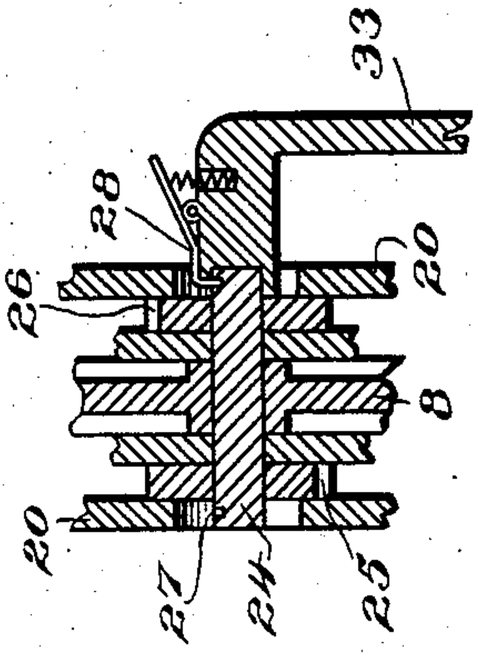


Fig. 1.

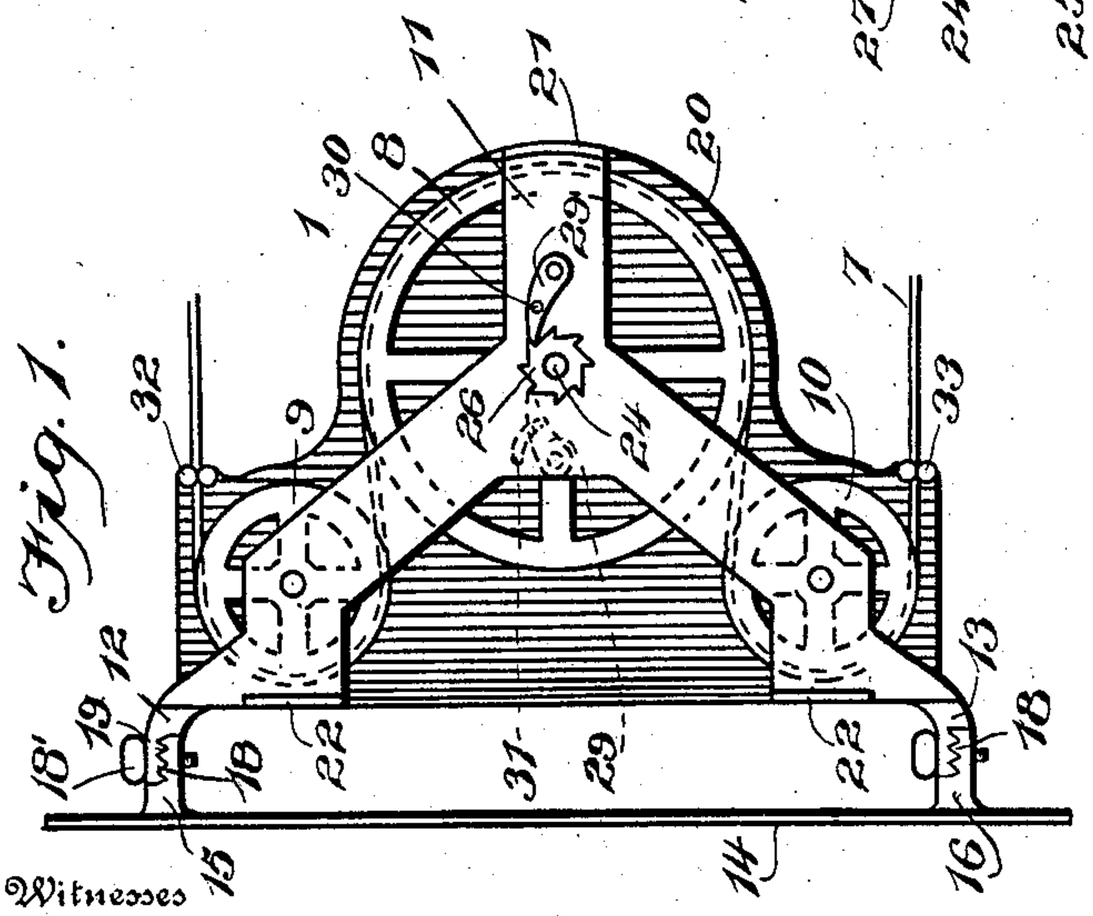
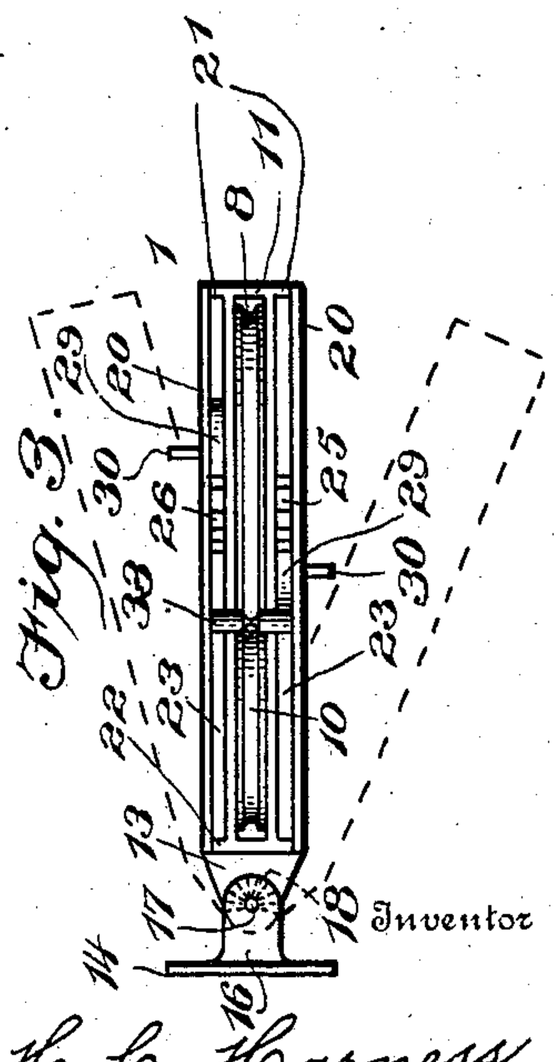


Fig. 3.



Witnesses

T. P. Brett

E. C. Duffy

Inventor

H. C. Harness

By

O. E. Duffy & Sons

Attorneys

UNITED STATES PATENT OFFICE.

HENRY CHARLESTON HARNESS, OF NEW ROCHELLE, NEW YORK.

CLOTHES-LINE REEL.

No. 859,812. Specification of Letters Patent. Patented July 9, 1907.

Application filed July 12, 1906. Serial No. 325,843.

To all whom it may concern:

Be it known that I, HENRY CHARLESTON HARNESS, a citizen of the United States, residing at New Rochelle, in the county of Westchester and State of New York, have invented certain new and useful Improvements in Clothes-Line Reels; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to clothes line reels, and has for its object to provide a device of this class whereby the line can be quickly and conveniently operated in both directions for handing out or taking in clothes and the like.

A further object of my invention is to provide a device of this character which is simple in its construction, light in weight, strong, durable and efficient.

A further object of my invention is to provide a device of this class which is so constructed that the line can be locked in any position.

With these objects in view my invention consists in the novel construction for securing the device to a wall, post, or other object.

My invention further consists in the novel construction of the frame and casing, and my invention also consists in the arrangement of the operating crank, reel, shaft and ratchet wheels.

Referring to the accompanying drawing: Figure 1 is an elevation with one side of casing removed. Fig. 2 is an elevation of small pulley with one side of casing removed. Fig. 3 is an edge view of reel. Fig. 4 is an edge view of small pulley, and Fig. 5 is a vertical sectional view through reel.

Like numerals of reference indicate the same parts throughout the several figures in which:

1 indicates the clothes line reel, and 2 is the pulley employed in connection therewith. The pulley comprises a frame 2′ to which is connected a coil spring 3 and screw eye 4.

5 indicates the casing for the pulley, which casing carries two pairs of guide rollers 6 between which pairs the line 7 passes as shown in Fig. 2.

The clothes line reel 1 comprises a large pulley 8 and two smaller pulleys 9 and 10 associated therewith as shown in Fig. 1. A frame 11 carries said pulleys 8, 9 and 10 and terminates in the lugs 12 and 13.

14 indicates the wall plate which is provided with two projecting lugs 15 and 16, each of said lugs being provided with a screw opening 17, and a series of teeth or serrations 18 radiating from said opening 17.

As shown in Fig. 1 each of the lugs 12 and 13 on the frame 11 carries a thumb screw 18′ and is provided with a series of teeth or serrations 19 radiating from said thumb screw 18′.

Covering the frame 11 and pulleys 8, 9, and 10 is a casing 20, the forward edge of the frame 11 being provided with a flange 21, and the rear edges of said frame being provided with a flange 22, as shown in Figs. 1 and 3. The casing 20 engages said flanges as shown in Fig. 3 which causes a space 23 to be formed on each side of the frame 11.

Referring now to Fig. 5 it will be seen that the shaft 24 of the large pulley 8 is journaled in the frame 11, and carries two ratchet wheels 25 and 26, said ratchets being located between the frame 11 and the casing 20, while said shaft 24 is preferably provided at each end with an indenture 27 within which the crank catch 28 enters as shown in Fig. 5.

Referring now to Fig. 1 it will be seen that a pawl 29 is provided for each ratchet 25 and 26, each pawl being pivoted to the frame 11, and provided with a laterally extending pin 30 (Fig. 3) which projects through a slot 31 in the casing 20 as shown in dotted lines in Fig. 1. As shown the pawls 29 are reversed, and the ratchets 25 and 26 have their teeth so arranged that the pawls 29 lock the pulley 8 against rotation in either direction.

As shown in Figs. 1 and 3 two sets of guide rollers 32 and 33 are carried in the frame 20 for the purpose of guiding the clothes line.

Having thus fully described my invention its operation is as follows: In order to move the clothes line, the crank 33 is placed in position shown in Fig. 5 and one of the pawls 29 is raised out of engagement with its ratchet, thus allowing the pulley 8 to be rotated in one direction, the clothes line passing over said pulley 8 and small pulleys 9 and 10, being thereby operated. To rotate the pulley in the opposite direction the other pawl 29 must be raised from its ratchet. By this construction the line can be locked against movement in either direction, as the shaft of the pulley 8 can not be rotated without the crank 33. As shown in dotted lines in Fig. 3, the reel 1 can be swung from side to side so that the line will lead fair to the pulley 2 irrespective of the position of the wall plate 14, and as the radial teeth or serrations 18 thereon mesh with the radial teeth or serrations 19 on the frame lugs 12 and 13, the same can be locked in any position by the thumb screws 18′ in such manner that any strain on the clothes line will not cause the same to lead unfair to the reel 1.

Having thus described my invention what I claim as new and desire to secure by Letters Patent of the United States is:

1. In a device of the character described, the combination of a frame, a pulley carried therein, a casing for

said pulley and frame, said casing and frame being so arranged as to provide a space on each side of said frame, a shaft for said pulley, a ratchet wheel located on said shaft between said frame and said casing, a pawl associated with said ratchet wheel and located between said frame and said casing, and means on said pawl for manipulating the same substantially as described.

2. In a device of the character described, the combination of a frame, a series of pulleys carried therein, a casing covering said frame and pulleys, said frame and casing being so arranged as to provide a space between said frame and said casing on each side of said frame, a shaft for one of said pulleys, a ratchet wheel on said shaft located between said frame and said casing, a pawl associated with said ratchet wheel and located between said frame and said casing, a pin or extension on said pawl, said pin or extension extending through said casing, substantially as described.

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

HENRY CHARLESTON HARNESS.

Witnesses:

EDGAR M. PHELPS,

E. A. BOXBERGER.