J. P. WEAVER.

REEL HOLDER.

APPLICATION FILED OCT. 17, 1908.

934,114. Patented Sept. 14, 1909.

Fig. 1.

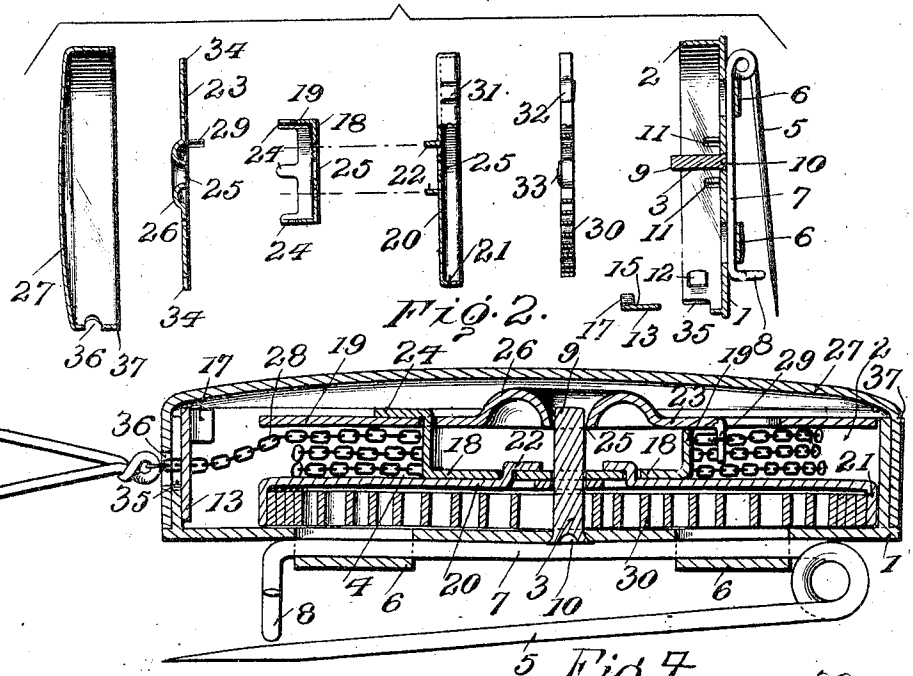


Fig. 2.

Fig. 7.

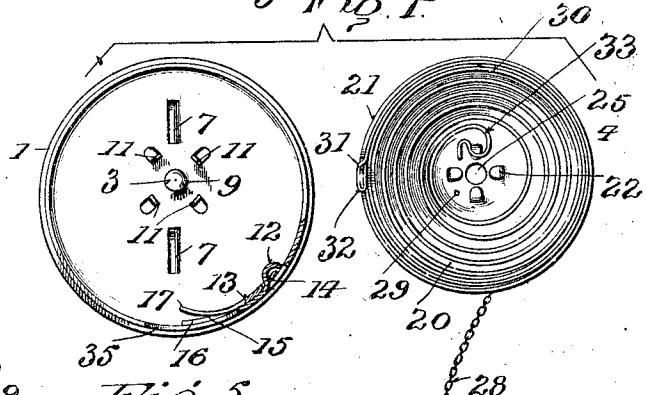


Fig. 3.

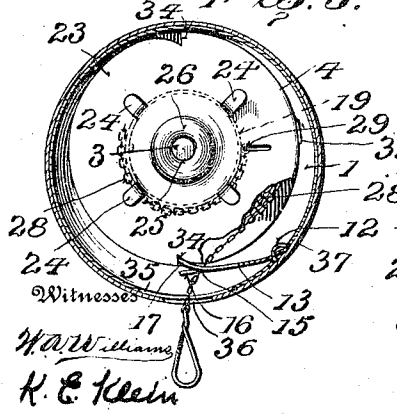
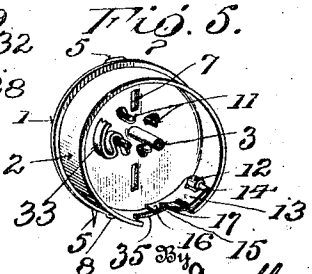


Fig. 5.



Witnesses

H. A. Williams

K. E. Klein

Inventor

John P. Weaver

By Dudley, Browne & Phelps,

Attorney

UNITED STATES PATENT OFFICE.

JOHN P. WEAVER, OF TERRE HAUTE, INDIANA.

REEL-HOLDER.

934,114. Specification of Letters Patent. Patented Sept. 14, 1909.

Application filed October 17, 1908. Serial No. 458,213.

To all whom it may concern:

Be it known that I, JOHN P. WEAVER, a citizen of the United States, residing at Terre Haute, in the county of Vigo and State of Indiana, have invented certain new and useful Improvements in Reel-Holders, of which the following is a specification.

My invention relates to certain new and useful improvements in reel holders, and particularly to the type of reel holders disclosed in the patent granted to me April 21, 1908, No. 885,115, and the primary object of my invention is to simplify, cheapen and improve the details of construction shown in said patent. It is to be understood, however, that while these details of construction are particularly adapted for use in connection with the form of reel holder shown in said patent, their use is not limited to such form of construction, but that they may be used in connection with other forms of reel holders and the like if found desirable.

With these and other objects in view my invention consists in certain constructions, combinations and arrangements of parts the preferred form of which will be first described in connection with the accompanying drawings and then the invention particularly pointed out in the appended claims.

Figure 1 is a perspective view of the parts of my device separated from each other; Fig. 2 is a central cross sectional view showing the parts assembled. Fig. 3 is a sectional view partly broken away, the section being taken just beneath the cover plate of the reel. Fig. 4 is a view of the inner portion of the back plate and the reel removed therefrom, showing the portion of the reel which, when the parts are in position, faces the back plate. Fig. 5 is a detail perspective view of the back plate.

1 designates a back plate provided with an upwardly extending flange 2 and 3 is a post secured at one side of the center of the back plate upon which the reel 4 is journaled. The back plate is preferably provided with a safety pin 5 secured to the back thereof, whereby it may be attached to the apparel of the person using the same. The pin is secured in position by stamping out from the body of the back plate a pair of loops 6 through which the body portion 7 of the pin is passed before the pin engaging hook has been turned up into shape.

The post 3 is preferably secured in the back plate by forming the post with a reduced end 9 adapted to pass through an opening in the back plate and then expanding the end of the reduced portion of the post, as shown at 10. The post is practically riveted into position in the plate. 11 are a plurality of tongues, preferably four, which are struck out of the body of the back plate and extend up around the post 3. These tongues are adapted to engage the free end of the coil spring by means of which the drum is actuated in a manner to be hereinafter described.

12 designates a tongue cut in the flange 2 of the back plate, said tongue being adapted to form a hinge for the reel-holding pawl 13, the pawl being provided near its back end with a slot 14 through which the tongue 12 loosely passes. The free end of the tongue, after passing through the slot 14, is bent down against the side of the flange so as to loosely, yet securely, retain the pawl in position. The outer end of the pawl is notched, as shown at 15, forming two fingers 16 and 17. Preferably, and as shown, the finger 17 is bent inwardly, and its free end consequently stands nearer the center of the back plate than the end of the finger 16.

The reel 4 comprises the plate 18 having the up-turned flange 19 forming a sleeve upon which the chain of the reel is adapted to be wound.

20 designates a plate provided with a flange 21, which plate is secured to the plate 18 by means of tongues 22, which are struck up from the plate 20, and which are passed through openings cut in the plate 18 and then bent down, as best shown in Fig. 2, whereby the plate 20 is secured to the plate 18, with the flange 21 extending oppositely to the flange 19.

23 designates a plate secured on the upper edge of the flange 19 by means of the tongues 24 formed on the upper edge of said flange and which extend through openings cut in the plate 23, the tongues being bent down to secure the plate on the upper edge of the flange 19. The diameter of the plate 23 is substantially the same as the diameter of the plate 20, whereas the diameter of the plate 18 with its flange 19 is considerably less. These three pieces therefore form a reel of which the flange 19 forms a central sleeve about which may be wound a cord or chain. The plates 19, 20 and 23 are centrally perforated, as shown at 25, into which the post 3 extends, and whereby the reel is journaled to the back plate. Preferably I strike up a

circular raised portion 26 in the plate 23 adjacent the opening 25 therein, this raised portion being adapted to lie closely adjacent to the inner side of the flanged cover 27, which is adapted to slip over the flange 2 of the back plate.

28 designates a chain or cord which is secured at one end to the reel by means of the tongue 29 that is struck from the body of the plate 23 and bent inwardly to lie parallel with the flange 19 and by which the inner end of the chain is secured.

Within the flange 21 of the plate 20 I mount the helical spring 30, one end of which is connected to the flange by providing the flange with a finger 31 formed by making two parallel cuts in the flange, the finger being engaged by a loop 32 formed in the outer end of the spring. The inner end of the spring is provided with a hook portion 33 adapted to engage with one or more of the projecting fingers 11, whereby the end of the spring is secured to the back plate.

In the periphery of the flange 23 I cut one or more notches 34 with which the finger 17 is adapted to engage. The notches form stops by means of which, when the pawl is in engagement therewith, the reel is prevented from rotating under the influence of the spring, and the finger 17 of the pawl is so bent in relation to the finger 16 that when the finger 17 is in engagement with the notch 34 the end of the finger 16 will be nearly in contact with the side of the flange 21. It will be understood that, as in my prior construction, the chain 28 on leaving the drum passes through the notch in the end of the pawl 13, and then through an open slot 35 cut in the flange 2, and then through a slot 36 cut in the flange 37 of the cover 27.

When the parts are assembled in the manner described the operation of the reel is the same as that described in my Letters Patent above referred to. The present construction, however, is cheaper to manufacture, more durable, and operates with more certainty than the particular form of construction described in said patent.

I realize that considerable variation is possible in the details of construction and arrangement of parts without departing from the spirit of my invention, and I therefore do not intend to limit myself to the specific form shown and described except as required by the scope of the appended claims.

What I claim as new and desire to secure by Letters Patent is—

1. A reel holder comprising a back plate, a post rigidly secured to the back plate, a plurality of tongues stamped up from the back plate and located around the post, a reel journaled on the post, and a helical spring located within the reel and having its ends connected to the tongues of the back plate and the reel respectively.

2. A reel holder comprising a back plate, a post rigidly secured to the back plate, a reel journaled on the post, said reel being formed of a central portion and two side plates, one of said side plates being provided with a flange, a helical spring located within the flange and provided on its outer end with a loop, one portion of said flange having a pair of slots cut therein to form a finger engaging the loop of the spring, and means for securing the inner end of the spring to the back plate adjacent the post.

3. A reel comprising a plate having a flange, tongues formed on the edge of said flange, a second plate provided with openings through which the tongues pass, whereby the plate is secured to the flange, and a third plate provided with tongues adapted to pass through openings formed in the first mentioned plate, whereby said plates are connected together.

4. A reel holder comprising a casing, a reel formed of a central sleeve and two side plates journaled in the casing, one of said plates being provided with a flange and the other of said plates having a notch cut in its periphery, a pawl notched at its outer end to form two fingers, one of said fingers being bent inwardly and adapted for engagement with the notch of the plate, a spring located within said flange, adapted to rotate the reel in one direction, a cord adapted to be wound on the reel, the pawl being positioned and arranged so that the cord will pass through the notch thereof, and the movement of the cord will throw the bent finger of the pawl into and out of engagement with the notch.

5. A reel formed of a central sleeve, plates secured to opposite ends of said sleeve, a tongue struck from one of said plates and bent to lie adjacent to said sleeve, and a cord attached to said tongue whereby it is adapted to be wound upon said sleeve.

6. A reel holder comprising a back plate having an upturned flange, a reel journaled on the back plate, said reel being provided with a notch in its periphery, a spring secured to the back plate and the reel to rotate the same in one direction, a cord adapted to be wound on the reel, a tongue struck from the flange of the back portion and a pawl adapted to engage the notch in the reel and mounted on said tongue.

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

JOHN P. WEAVER.

Witnesses:
FRANK P. ANSHUTZ,
ODELL WEAVER.