Jan. 8, 1952 E. J. HILL 2,582,036

TOILET PAPER HOLDER

Filed April 21, 1949

Fig. 1.

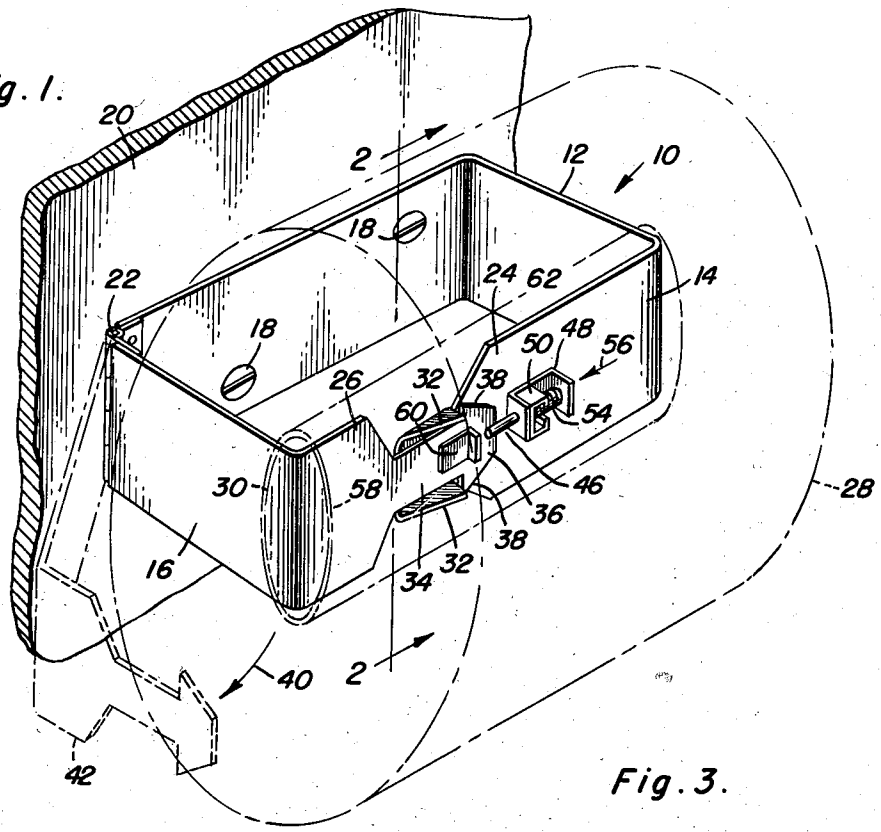


Fig. 2.

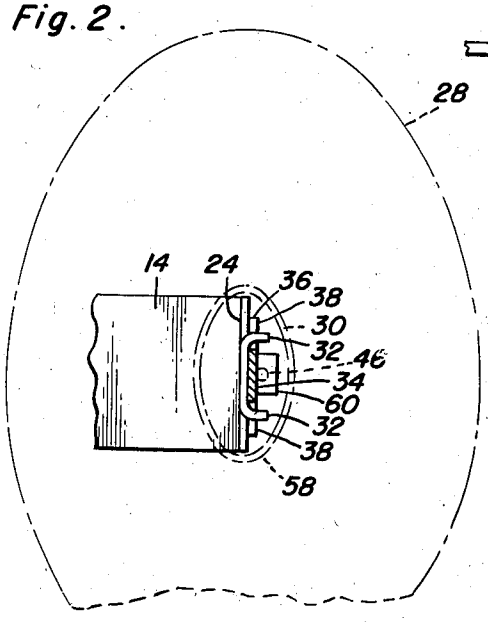


Fig. 3.

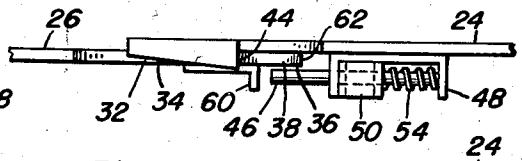
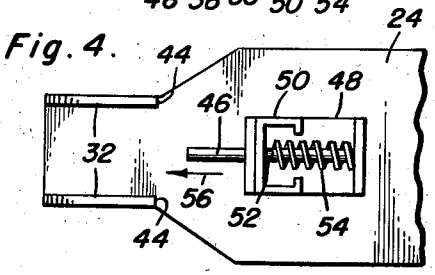


Fig. 4.



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TOILET PAPER HOLDER

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3 Claims. (Cl. 242—55.2)

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This invention relates to new and useful improvements and structural refinements in holders for toilet paper, more particularly, holders for rolls of toilet paper, and the principal object of the invention is to eliminate the waste of paper which usually occurs when conventional holders are employed, this object being achieved by providing a holder which permits only one or two sheets of paper to be removed from the roll at one time and which prevents the roll of paper as a whole to be removed from the holder.

An important feature of the invention therefore resides in the provision of means for preventing the rotation of the roll of paper on the holder, whereby only a predetermined length of paper may be unwound from the roll at one time.

Another feature of the invention resides in the provision of means for locking the holder so that a roll of paper thereon cannot be removed, these locking means being concealed by the roll of paper until such time as the roll is completely unwound and used, at which time the holder may be unlocked so that the supply of paper may be replenished.

Some of the advantages of the invention reside in its simplicity of construction, in its dependable and economical operation, and in its adaptability to convenient manufacture.

With the above more important objects and features in view and such other objects and features as may become apparent as this specification proceeds, the invention consists essentially of the arrangement and construction of parts as illustrated in the accompanying drawings, in which:

Figure 1 is a perspective view of the invention;

Figure 2 is a cross-sectional view, taken substantially in the plane of the line 2—2 in Figure 1;

Figure 3 is a fragmentary top plan view of the locking means used in the invention, and

Figure 4 is a fragmentary front elevational view illustrating a portion of the locking means.

Like characters of reference are employed to designate like parts in the specification and throughout the several views.

Referring now to the accompanying drawings in detail, the invention consists of a toilet paper holder designated generally by the reference character 10, the same embodying in its construction a substantially rectangular frame 12 consisting of a stationary, angulated strap or member 14 and a movable, angulated strap or member 16.

The stationary member 12 is secured by screws, or the like, 18 to suitable supporting structure

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such as a wall 20, while the movable member 16 is hingedly connected to the member 12 as at 22.

The free end portions 24, 26 of the respective members 14, 16 are receivable in opposite ends of a roll of toilet paper 28, and it will be noted that before this roll is applied to the holder, it is compressed so that the central opening therein is substantially elliptical as indicated at 30, the elongated cross section of the member portions 24, 26 being of such a size that when said member portions are inserted in the elliptical opening, the roll 28 is prevented from rotating, so that only a predetermined length of paper, possibly one or two sheets, may be unwound from the roll at one time.

The free end portion 24 of the stationary member 14 is provided with a catch 32 consisting of a pair of spaced, wedge-shaped elements. Moreover, a tongue 34 is provided at the free end portion 26 of the movable member 16, the tongue 34 terminating in a relatively wide head 36 defining a pair of wings 38 which are engageable with the aforementioned elements 32.

As is indicated in Figure 1, the movable member 16 may be opened as indicated at 40 to a position shown by the phantom lines 42, so as to facilitate application of a roll of paper to the holder by inserting the end portions 24, 26 of the members 14, 16 into the opening 30 of the roll. Thereupon, the holder may be closed by simply swinging the member 16 toward the member 14, during which action the wings 38 will engage the wedge-shaped elements 32, it being understood that the member 16 is sufficiently resilient to permit the portion 26 thereof to be swung outwardly until such time as the head 36 of the tongue 34 passes the elements 32 and springs back against the front surface of the portion 24 of the member 14, substantially as shown. In this position the end portions 24, 26 of the respective members 14, 16 will be securely locked together by the engagement of the wings 38 with the edges 44 of the elements 32, and what is more important, the entire lock mechanism will be concealed within the roll 28 so that the holder cannot be unlocked to effect unauthorized removal of the roll.

For added protection, means are provided to safeguard against the possibility of a screw driver, or the like, being inserted in the opening 30 of the roll 28 so as to disengage the wings 38 from the elements 32, these last mentioned means involving the provision of a locking pin 46 which is slidable in a U-shaped bracket 48 secured to the front surface of the free end portion 24 of the stationary member 14.

A U-shaped finger piece 50 is positioned on the

pin 46 in the bracket 48 immediately adjacent a transversely extending keeper pin 52, while a compression spring 54 is provided on the pin 46 between the pin 52 and the remote side or end of the bracket 48, as will be clearly apparent. It will be understood from the foregoing that the spring 54 urges the pin 46 and the finger piece 50 in the direction of the arrow 56, that is, toward the tongue 34, this being so arranged that the locking pin 46, under the influence of the spring 54, extends over the head 36 of the tongue 34 and prevents the tongue to be sprung outwardly out of engagement with the catch elements 32. However, after the roll of paper is completely unwound or used, the locking mechanism becomes immediately exposed, so that by simply manipulating the finger piece 50, the pin 46 may be retracted so that the tongue 34 may be disengaged from the catch element 32 and the holder unlocked to facilitate replenishing the paper supply.

In the event that the roll of paper 28 is wound upon the usual, tubular core 58, such a core may be torn or otherwise opened after the paper is used, so that access may be had to the locking mechanism.

Finally, as an additional precaution against tampering, it is to be noted that an angle bracket or guard 60 is secured to the tongue 34 adjacent the head 36 of the latter, so that a screw driver, or the like, cannot be inserted into the roll of paper for the purpose of retracting the pin 46 and opening the locking means.

When the device is being locked, the end edge 62 of the head 36 of the tongue 34 engages and depresses the pin 46, so that the pin is automatically retracted during the locking operation, and is subsequently returned to its projected, locked position by the spring 54.

While in the foregoing there has been shown and described the preferred embodiment of this invention it is to be understood that minor changes in the details of construction, combination and arrangement of parts may be resorted to without departing from the spirit and scope of the invention as claimed.

Having described the invention, what is claimed as new is:

1. In a toilet paper holder, the combination of a frame comprising a stationary angulated member secured to supporting structure and having a free end portion receivable in one end of a toilet paper roll, a movable angulated member hingedly connected to said stationary member and having a free end portion receivable in the other end of the roll, a locking tongue at the free end of said movable member and a catch on the free end portion of said stationary member, said tongue being engageable with said catch, means for positively latching said tongue in engagement with said catch, and a guard on said tongue adjacent the free end of said movable member and positioned in alignment with said means for positively latching said tongue with said catch, said tongue and said guard being disposed centrally and between the ends of a paper roll positioned in the holder.

2. In a toilet paper holder, the combination of a frame comprising a stationary angulated member secured to supporting structure and having a free end portion receivable in one end of a toilet paper roll, a movable angulated member hingedly connected to said stationary member and having a free end portion receivable in the other end of the roll, a locking tongue at the free end of said movable member and a catch on the free end portion of said stationary member, said tongue being engageable with said catch, means for positively latching said tongue in engagement with said catch, and a guard on said tongue adjacent the free end of said movable member and positioned in alignment with said means for positively latching said tongue with said catch, said last-mentioned means including a spring-pressed locking pin mounted on said stationary member adjacent said catch, said pin being engageable with said tongue whereby said tongue is maintained in engagement with said catch, said tongue and said guard being disposed centrally and between the ends of a paper roll positioned in the holder and said guard having a portion adjacent to said pin whereby the pin will be protected from tampering.

3. In a toilet paper holder, the combination of a frame comprising a stationary angulated member secured to supporting structure and having a free end portion receivable in one end of a toilet paper roll, a movable angulated member hingedly connected to said stationary member and having a free end portion receivable in the other end of the roll, a locking tongue at the free end of said movable member and a catch on the free end portion of said stationary member, said tongue being engageable with said catch, means for positively latching said tongue in engagement with said catch, a guide on said tongue adjacent the free end of said movable member and positioned in alignment with said means for positively latching said tongue with said catch, a U-shaped bracket secured to the front surface of the free end portion of the stationary member, said last-mentioned means including a spring-pressed locking pin slidably mounted through said U-shaped bracket on the stationary member and adjacent said catch, said pin being engageable with said tongue whereby said tongue is maintained in engagement with said catch, said tongue and said guard being disposed centrally and between the ends of a paper roll positioned in the holder, and said guard having a portion adjacent to said pin whereby the pin will be protected from tampering.

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