

June 29, 1926.

1,590,943

L. F. HARRIS

ROLL HOLDER

Filed April 18, 1925

Fig. 1.

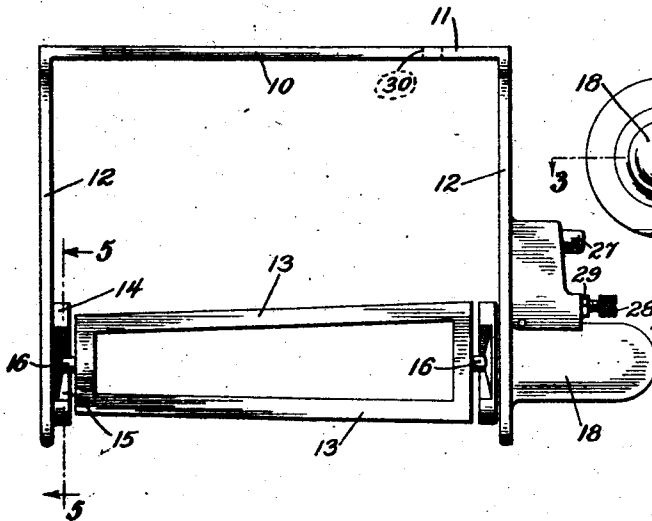


Fig. 2.

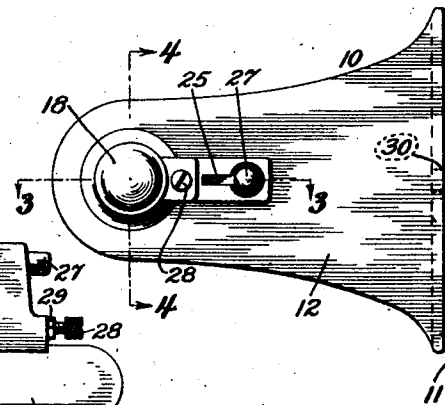


Fig. 3.

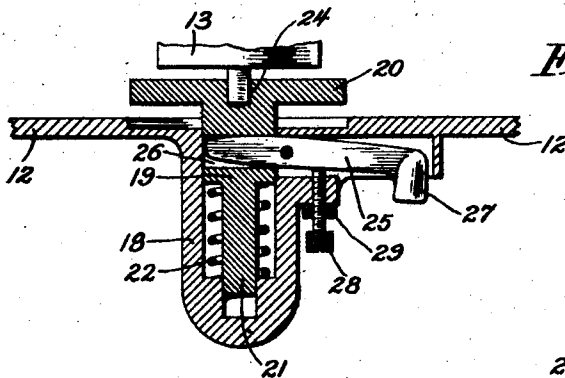


Fig. 4.

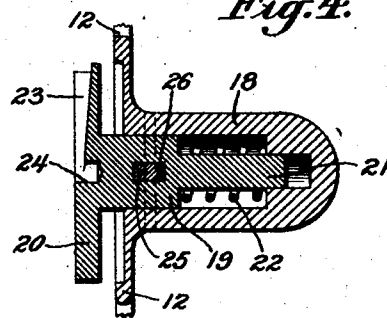
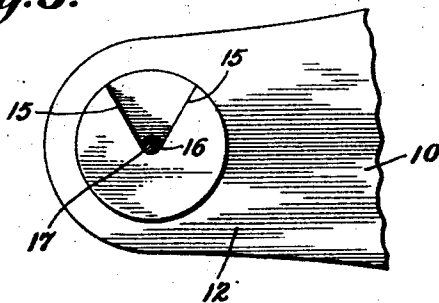


Fig. 5.



Land & Butler
WITNESS.

Lewis F. Harris

INVENTOR

BY *Victor J. Evans*

ATTORNEY

Patented June 29, 1926.

1,590,943

UNITED STATES PATENT OFFICE.

LEWIS F. HARRIS, OF JERSEY CITY, NEW JERSEY.

ROLL HOLDER.

Application filed April 18, 1925. Serial No. 24,179.

This invention relates to improvements in roll holders and has particular reference to a holder for rotatably supporting a roll of toilet paper.

5 The principal object of the invention resides in a paper roll holder which permits the roll of paper to be quickly applied or removed, and when applied, the same prevents an excessive amount of paper from un-
10 rolling when a pull is exerted at the end of the roll.

Another object is to provide a roll holder which includes a tension roller for receiving the roll of paper, and means for varying
15 the tension of said roller.

A further object is the provision of a device of the above character which is simple in construction, cheap of manufacture and highly attractive in appearance so as not to
20 detract from the furnishings of a bath room.

With these and other objects in view, the invention resides in certain novel construction and combination and arrangement of parts, the essential features of which are
25 hereinafter fully described, are particularly pointed out in the appended claims, and are illustrated in the accompanying drawing, in which:—

30 Figure 1 is a top plan view of my improved roll holder.

Figure 2 is an end view of the same.

Figure 3 is a horizontal sectional view on the line 3—3 of Figure 2.

35 Figure 4 is an enlarged detail sectional view on the line 4—4 of Figure 2.

Figure 5 is a transverse sectional view on the line 5—5 of Figure 1.

Referring more particularly to the drawing, the reference numeral 10 designates a
40 U-shaped frame which includes an attaching plate 11 and outwardly extending bracket arms 12. The frame is formed of a single piece of material and is preferably made in the form of a casting. The arms 12
45 are disposed in spaced relation and support a roller 13.

One of the arms 12 is formed with an inwardly extending boss 14, the face of which is provided with a V-shaped notch 15, the
50 walls of which converge toward the bottom of the notch for guiding one of the pintles 16 of the roller into a seat 17.

The opposite bracket arm 12 is provided with an outwardly extending cylinder 18
55 disposed in axial alignment with the seat 17 and in which a plunger 19 reciprocates. The

plunger is formed with an outwardly extending head 20 and a rod 21 which has its bearing in the end of the cylinder. An expansive spring 22 encircles the rod and is
60 interposed between the reduced portion of the head and the end of the cylinder to normally tend to force the head in the direction of the opposed bracket arm.

The head 20 is formed with a V-shaped
65 notch 23 similar to the notch 17, the walls of which converge toward the closed end of the notch for guiding the other pintle 16 into a seat 24.

For retracting the head of the plunger
70 when removing or applying the roller, I provide a pivoted lever 25, one end of which co-acts with the walls of the slot 26 in the plunger, while the other end of the lever is provided with a manipulating portion 27
75 in the nature of a push button. The lever limits the outward movement of the plunger against the action of the spring and by pressing inwardly on the manipulating portion 27, it will be seen that the head will be
80 retracted at which time the roller may be removed as the pintles may be unseated by lifting the roller therefrom.

For regulating the tension on the head, I provide a set screw 28 which engages the
85 lever 25 outward of its pivot. The set screw may be locked in various positions of adjustment by a lock nut 29 for limiting the movement of the lever, which controls the operation of the plunger against the action
90 of the spring.

From the foregoing description, it will be seen that the roller 13 is normally held under tension by the spring acting against the head of the plunger and which necessitates
95 an even pull to be exerted on the end of the roll of paper supported by the roller in order to unroll the paper therefrom. This prevents the paying out of an excessible amount of paper when the end of the roll
100 is given a sudden pull. As heretofore stated, tension on the roll may be adjusted by the operation of the set screw 28 whereby the exact tension required may be maintained.
105

In attaching the device to the wall or other supporting structure, the attaching plate 11 is provided with suitable openings
110 30 for the passage of securing elements in the nature of screws or the like.

In the drawing, I have shown a roller 13 whose opposite side walls are tapered from

one end to the other for wedging engagement with the inner walls of a roll of paper and the said roller is provided with a longitudinal slot which reduces the weight of the roller. However, the roller may be perfectly round in cross section without departing from the spirit of my invention.

When applying the roller, it is not necessary to operate the lever as the trunnions are inserted in the notches and co-act with the inclined walls which forces the yieldable hanger against the action of the spring until the trunnions reach their respective seats, at which time the spring moves the yieldable hanger to a locking position.

What is claimed as new is:—

A holder for paper rolls comprising a frame having spaced outwardly extending brackets, a seat formed in one of said brackets, a movable member slidably mounted in the other of said brackets and having

a seat therein disposed in axial alignment with the first mentioned seat, said movable member also having a slot therein, a roller adapted to receive the roll of paper and having trunnions on the ends thereof for reception in said seats, spring means acting against said movable member for locking said trunnions in their respective seats and for placing a tension on said roller, and manipulative means for actuating said movable member against the action of said spring means, said manipulative means including a pivoted lever, the free end of which extends into the slot in said movable member for engagement with the walls thereof and an adjusting screw co-acting with said lever for limiting the outward movement of said movable member.

In testimony whereof I have affixed my signature.

LEWIS F. HARRIS.