Feb. 22, 1927. 1,618,342

K. F. KIRKMAN

PAPER ROLL CARRIER

Filed March 26, 1924

Fig. 1.

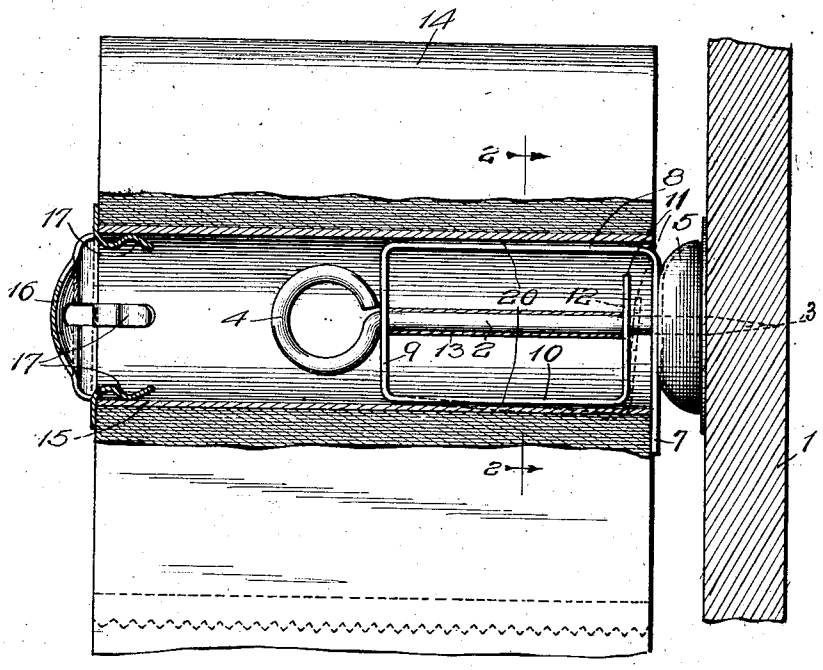
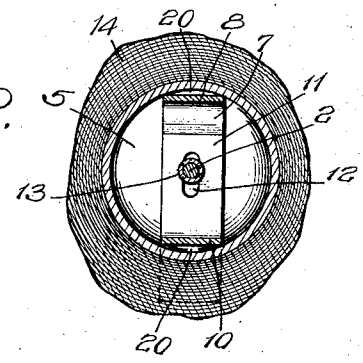


Fig. 2.



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UNITED STATES PATENT OFFICE.

KARL F. KIRKMAN, OF CHICAGO, ILLINOIS.

PAPER-ROLL CARRIER.

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My invention belongs to that general class of devices known as roll holders, and relates particularly to a paper roll holder especially adapted for carrying rolls of toilet paper. The invention has among its objects the production of a device of the kind described that is simple, inexpensive, convenient, compact, durable, efficient and satisfactory for use wherever found applicable. It has particularly as an object the production of a device in which the roll of paper may be easily and conveniently applied or the empty core or spool removed, and which device may be conveniently adjusted to regulate the pull required to rotate the roll and prevent spinning. Many other objects and advantages of the construction herein shown and described will be obvious to those skilled in the art from the disclosures herein given.

To this end my invention consists in the novel construction, arrangement and combination of parts herein shown and described, and more particularly pointed out in the claims.

In the drawings, wherein like reference characters indicate like or corresponding parts:

Fig. 1 is a side elevation and partial sectional view illustrating my improved device; and

Fig. 2 is a sectional view taken substantially on line 2—2 of Fig. 1.

Referring to the drawings in which the preferred embodiments of my invention are shown, 1 represents a suitable support such as a wall, door or window frame, or the like, and 2 a shaft carried thereby. The shaft 2 is shown provided with a threaded or screw end so that the same may be easily applied to the support; and the same also has an enlarged head, which, in the device shown, is in the form of a ring or eye 4. I have shown a bearing or spacer member 5 on the shaft at the support. Arranged on the shaft is a reel member which I prefer to make out of sheet metal having some resiliency or spring action. The reel shown consists of a strip bent to provide an end 7, one end of which is bent as indicated at 8, and thence bent as shown at 9, 10 and 11. The portions 7, 9 and 11 are provided with openings through which the shaft 2 passes, the opening through the portion 11 being preferably slotted as indicated at 12.

I have illustrated a tube 13 arranged on the shaft 2 between the portions 7 and 9, but it should be distinctly understood that this may be omitted, if desired, as I have found that the same is not in any way essential to the successful operation of the device. I have also illustrated projecting tongues 20 on the portions 8 and 10, which will tend to slightly impinge in the spool 15 and which do not interfere with the removal of the empty spool. These, however, are not essential, and they may be dispensed with if desired.

The paper is indicated by the numeral 14, the same being in the form of a roll and mounted on the customary core or spool 15, usually of cardboard or the like. Arranged at the open end of the paper is a cap 16 which may be of any suitable design. In the drawings, I have illustrated a cap having portions 17 struck out and bent inwardly adapted to engage the inside of the spool and retain the cap and close the end. While the cap is not essential, nevertheless it adds to the attractive appearance.

The roll of paper may be slipped over the reel, the spring action or resiliency causing the portions 8 and 10 to engage the interior of the spool and retain the same in place. It will be noted by referring to Fig. 1 that the free end or the portion 7 of the reel is preferably of a length to engage with the end of the paper roll and spool, thereby limiting the movement of the roll at the time of applying and preventing the same from being pushed down too far. When the paper is used up, the core or spool may be very easily removed and a new roll applied. It will be noted by referring to Fig. 1 that by tightening or loosening the screw or shaft 2, the friction of the reel on the spacer 5 and head or abutment 4 may be varied so that the reel may run easily or may be retarded. This permits an adjustment so that the reel will not spin or overrun, causing a waste of paper. While as a matter of fact, as before mentioned, the tube or sleeve 13 may be omitted, it does provide a more rigid structure, as upon adjustment of the shaft there is a positive push between the part 9 and the part 7. Usually, I omit the sleeve, preferring the yielding frictional engagement between the part 7 and the spacer 5.

The device is particularly simple and inexpensive, and is attractive in appearance. It may be made entirely out of sheet metal, with the exception of the shaft so that there is no machining or handwork other than

assembling. The device is particularly convenient as the paper is so held that the wall or support is not in any way injured or does the wall become accidentally soiled by carelessness in pulling the paper from the roll.

Having thus described my invention, it is obvious that various immaterial modifications may be made in the same without departing from the spirit of my invention; hence I do not wish to be understood as limiting myself to the exact form, construction, arrangement and combination of parts herein shown and described or uses mentioned.

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

1. A paper roll holder consisting of a shaft arranged at one end for engagement with a fixed support and provided with an abutment at the other end, a spacer member arranged on said shaft at said support and a reel consisting of a sheet metal piece having one end pivotally mounted on the shaft and extending transversely thereto and thence bent to provide a roll-engaging plate substantially parallel with the shaft and thence transversely to the shaft at said abutment and pivotally secured on the shaft, and thence bent substantially parallel with the shaft to adjacent said spacer, and thence laterally and pivotally secured to the shaft forming a bearing on said spacer, said last-mentioned end extending a distance to engage the end of a paper roll mounted on the reel.

2. A paper roll holder consisting of a shaft arranged at one end for engagement with a fixed support and provided with an abutment at the other end, a spacer member arranged on said shaft at said support and a reel consisting of a sheet metal piece having one end pivotally mounted on the shaft and extending transversely thereto, and thence bent to provide a roll-engaging plate substantially parallel with the shaft and thence transversely to the shaft at said abutment and pivotally secured on the shaft, and thence bent substantially parallel with the shaft to adjacent said spacer, and thence laterally and pivotally secured to the shaft forming a bearing on said spacer, said last-mentioned end extending a distance to engage the end of a paper roll mounted on the reel, and a closure for the free end of the paper roll.

3. A paper roll holder consisting of a shaft threaded at one end for engagement with a fixed support and looped at the other end to provide an abutment, a member arranged on said shaft at said support and constituting a spacer thereat and a resilient roll holder mounted to rotate on said shaft between said spacer and said abutment, said roll holder consisting of a sheet metal piece pivotally mounted on the shaft at said spacer, the piece bent and extending parallel with the shaft, and thence transversely thereto and pivotally mounted on the shaft, and thence extending rearwardly toward the spacer, the paper roll being held in place on said shaft by the action of the resilient roll holder engaging the interior of the roll, said roll being inserted in position over the free end of the shaft and roll holder.

4. A paper roll holder consisting of a shaft threaded at one end for engagement with a fixed support and looped at the other end to provide an abutment, a spacing member arranged on said shaft at said fixed support and a resilient roll holder mounted to rotate on said shaft between said spacing member and said abutment, said roll holder consisting of a piece of sheet metal extending transversely to and pivotally mounted on the shaft at said spacer, with the free end of a length to engage with the end of a roll of paper carried on the roll holder, the opposite end of the transversely extending piece bent and extending parallel with the shaft and thence bent transversely thereto and pivotally mounted on the shaft, and thence bent rearwardly toward the spacing member, the paper roll being held in place on said shaft by the action of the resilient roll holder engaging the interior of the roll, said roll being inserted in position over the free end of the shaft and roll holder, and a cap mounted on the roll at the open outer end thereof and maintained in place by engagement with the interior of the roll.

In testimony whereof, I have hereunto signed my name.

KARL F. KIRKMAN.