April 27, 1965 F. S. CARAVELLA 3,180,586

ROLL SUPPORT

Filed June 22, 1964

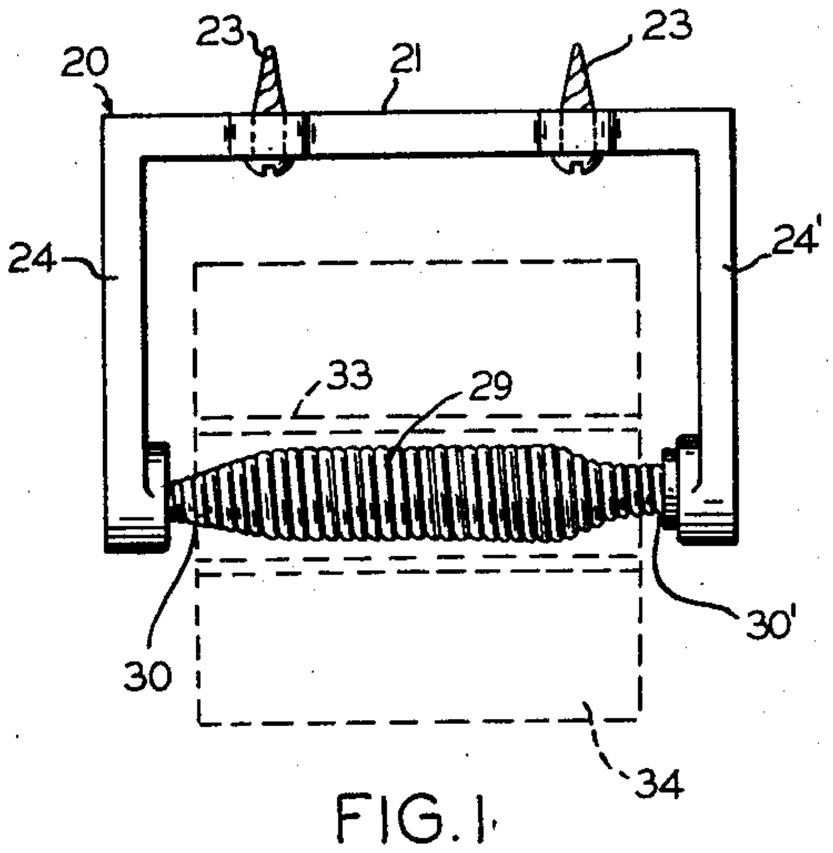

FIG. 1

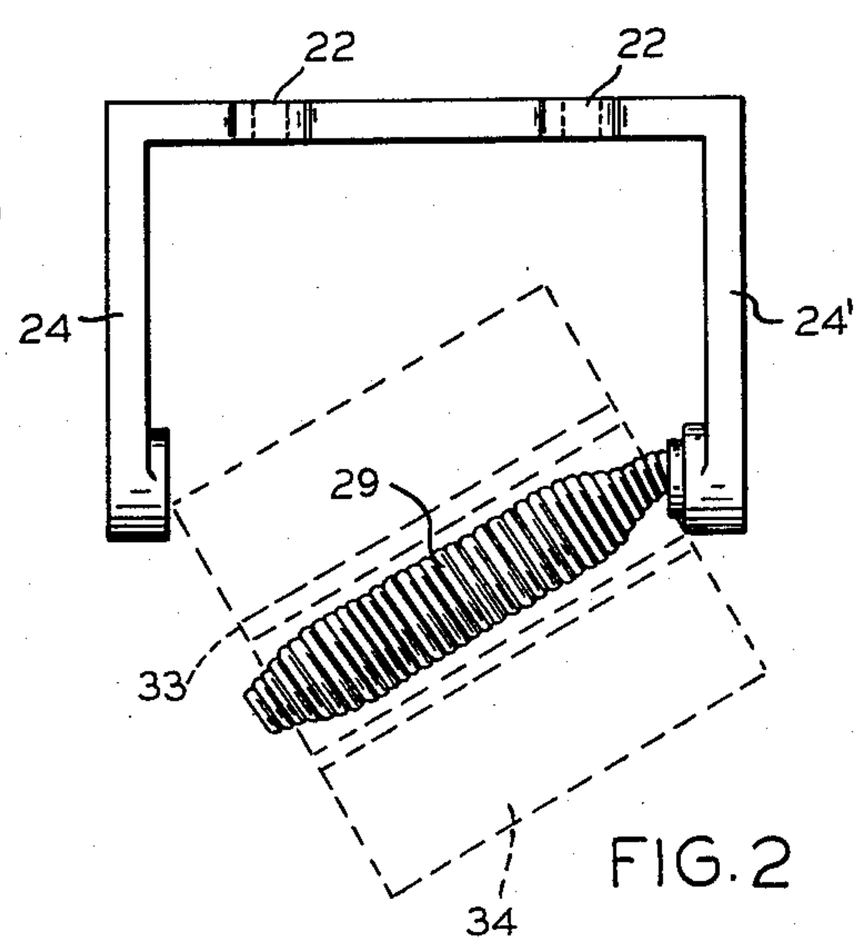

FIG. 2

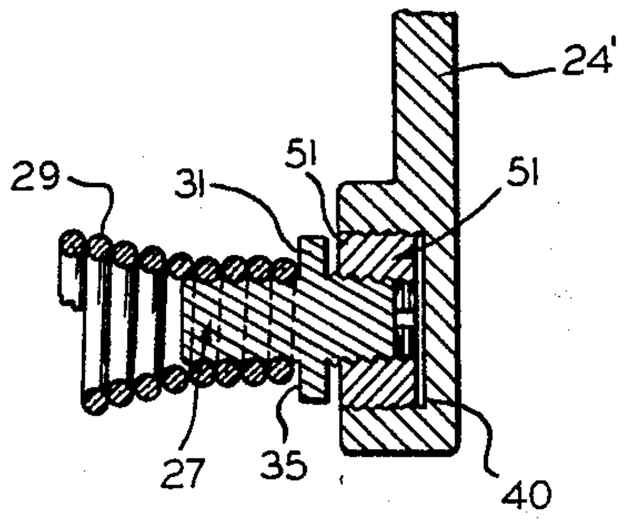

FIG. 3

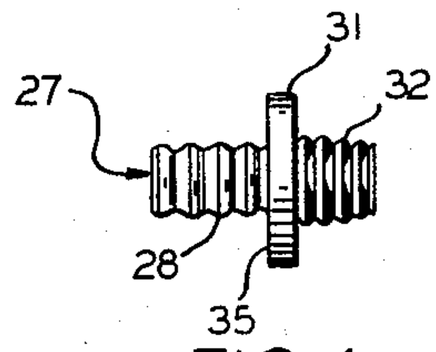

FIG. 4

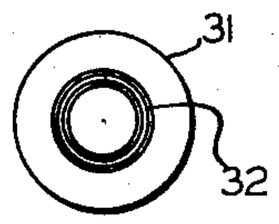

FIG. 5

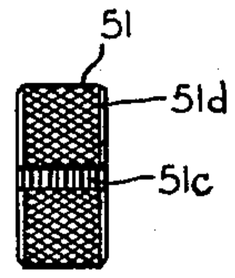

FIG. 6

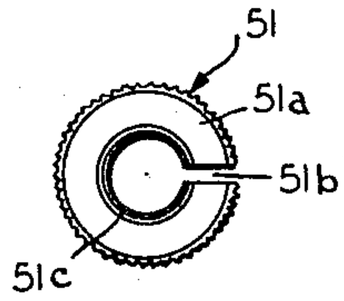

FIG. 7

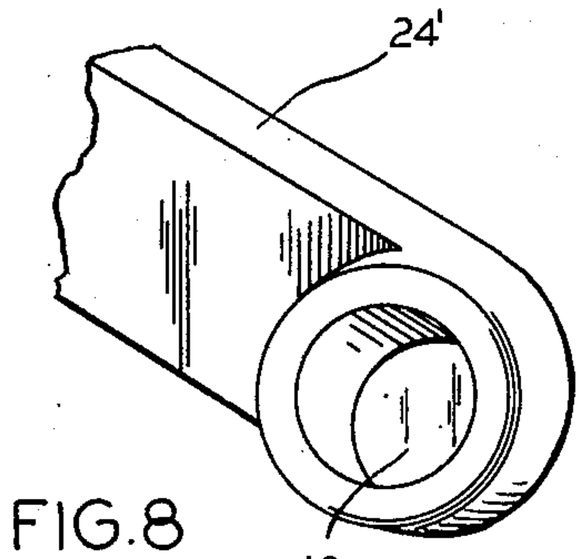

FIG. 8

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3,180,586
ROLL SUPPORT

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2 Claims. (Cl. 242—55.2)

My invention relates to roll supports, and more particularly to a support for rolls of toilet paper or the like. This invention is applicable and is a continuation in part from my earlier filed and presently pending application covering a Roll Support, Serial No. 200,264, filed June 5, 1962, now Patent No. 3,138,370.

The object of my invention is to provide a device that will permit the application and the removal of a roll of toilet paper or the like from its holder or support, without removing any part of the holder.

Another object is to provide a device of the character described that may be assembled with ease and without any tools or mechanical skill.

Still another object of the invention is to provide a roll support that may be utilized with an existing bracket of conventional design.

The conventional toilet paper holder, or support, is constructed in a manner whereby the roll support is equipped with a compression spring or other resilient means, that has to be compressed when being removed, and again inserted into the core of the roll of paper and compressed on both of its sides to insert it into the cavities of the support bracket.

The device illustrated and described herein is a complete unit consisting of an assembly of parts, that may be made a part of, or may be applied to a conventional wall bracket, and does not have to be removed therefrom when replacing the roll of toilet paper or the like.

The parts constituting my invention are simple in construction, economical to manufacture, and may be easily assembled without the use of special tools.

Other and further objects of my invention will become more apparent as the description proceeds, when taken in conjunction with the drawings, in which:

FIG. 1 is a top view of the assembled device, showing the roll of toilet paper in phantom, supported within the bracket and ready for use.

FIG. 2 is a similar view as shown in FIG. 1, with the roll of toilet paper shown in phantom, being removed,

FIG. 3 is a cross-sectional view of the attaching end of the roll support, as applied to the recess in a conventional wall bracket,

FIG. 4 is a side view of the mounting screw,

FIG. 5 is an end view of the mounting screw,

FIG. 6 is a side view of the slotted cylindrical adaptor,

FIG. 7 is an end view of the adaptor shown in FIG. 6,

FIG. 8 is a fragmentary perspective view of a portion of a wall bracket constructed of sheet metal, or the like.

Similar characters of reference indicate corresponding parts throughout the several views, and referring now to the same, the character **20** shows a bracket which may be constructed of any type of material, molded or stamped, consisting of a back plate **21**, equipped with apertures **22** to accommodate screws **23**, for attachment to a vertical wall. Obviously any type of fastening means may be employed.

The back plate **21** is equipped with a pair of outwardly extending arms shown as **24** and **24'**. The arm **24'** in FIGS. 1 and 2 and 3 is shown provided with a cavity **40** to receive an adaptor **51** shown in FIGS. 2, 3, 6 and 7, said adaptor consisting of an expansible cylindrical member **51*a*** with a slot **51*b***, a tapered threaded portion **51*c*** and a knurled portion **51*d***.

There is a stud member **27** threaded at one end **28**, to threadedly engage a coil spring member **29**, tapered at its

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ends **30** and **30'**. The stud member **27** is also equipped with an outwardly extending flange **31** and there is a tapered threaded portion **32** at its other end.

As shown in FIGS. 1 and 2, the coil spring member **29** is employed to rotatably support the conventional ferrule **33** constructed of paper in the form of a tub acting as a mounting for the roll of toilet paper shown as **34**. The one end of the coil spring member **29** shown as **30'** threadedly engages the threaded end **28** of the stud member **27** to a point of contact at **35** with the outward extending flange **31**, and the threaded tapered portion **32** is designed to engage the adaptor **51**.

The object and purpose of slotting the adaptor **51** is to cause it to spread when the tapered threaded portion **32** of the stud member **27** enters the tapered threaded portion **51*c*** of the adaptor thereby causing its peripheral knurled portions to contact the inner wall of the cavity **40** in the arm **24'** to retain it into position. This is accomplished by turning the entire coil spring member **29**.

The flexibility of the coil spring member **29** enables the free tapered end **30** to be brought outward as shown in FIG. 2, for inserting a new roll of paper **34**.

From the above description it will become apparent that the coil spring member **29** equipped with the stud member **27** and the slotted cylindrical adaptor **51**, may be inserted into any standard toilet paper bracket or the like, or it may be made a part of the complete assembly including the bracket **20**, and while I have shown a specific arrangement of the parts and their construction, I am fully cognizant of the fact that many changes may be made in the shape, form, and configuration of the parts and their arrangement, without effecting their operativeness, and I reserve the right to make such changes, without departing from the spirit of my invention, or the scope of the claims.

I claim:

1. A toilet paper holder, comprising: a pair of arms spaced apart to receive a roll of toilet paper therebetween, said pair of arms each having a cavity on one end; a resilient member adaptor means for threadedly receiving one of the ends of said resilient member, said adaptor means having, a stud member with one end threadedly associated with said resilient member, and a slotted expansible cylindrical member being sized and shaped to be received by one of said cavities, said cylindrical member having threads on the inner portions thereof, the other end of said stud being threaded for engagement with said cylindrical member, whereby said resilient member is associated with said arms by having one of its ends threadedly engaging said adaptor and forcing the periphery of said slotted expansible cylindrical member against the sides of a cavity on one of the arms and the other of said resilient member's ends being received by the cavity of said other arm.

2. A toilet paper holder, as defined in claim 1 wherein said other end of said stud has a tapered threaded portion, said threaded portion of said expansible cylindrical slotted member is tapered for engagement with said other end of said stud, and the periphery of said expansible cylindrical slotted member is knurled, whereby threaded engagement of said stud with said cylindrical member causes the knurled portion of said cylindrical member to be forced against the sides of one of said cavities.

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MERVIN STEIN, *Primary Examiner.*