

June 2, 1959

C. P. McCONNELL

2,889,122

TISSUE ROLL HOLDER

Filed Aug. 26, 1957

Fig. 1

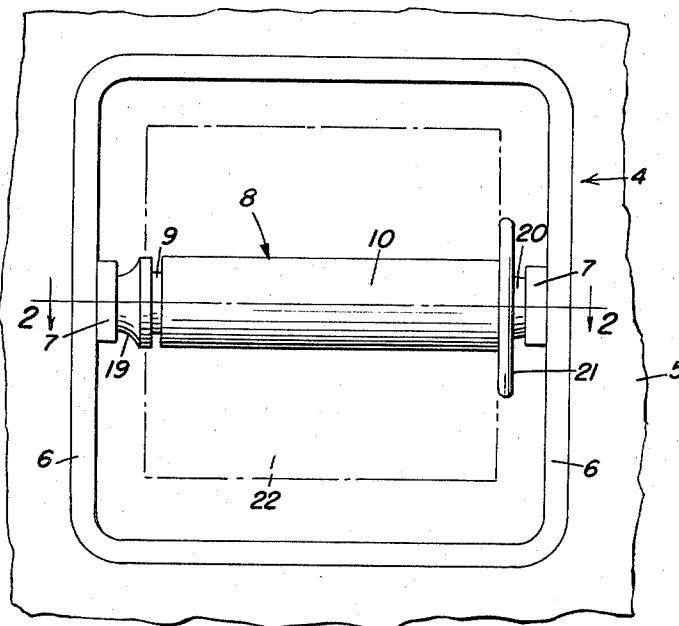


Fig. 2

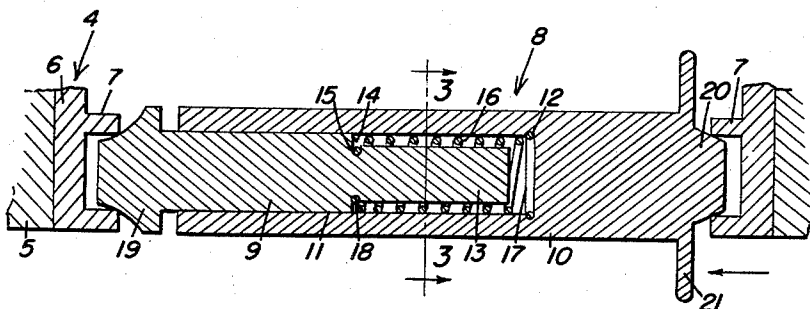
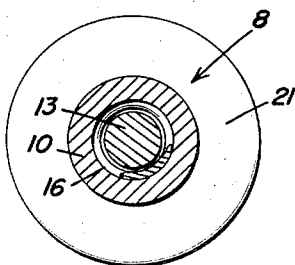


Fig. 3



Clint P. McConnell

INVENTOR.

BY *Alfonse A. O'Brien*
and Harvey B. Jackson
Attorneys

1

2,889,122

TISSUE ROLL HOLDER

Clint P. McConnell, Los Angeles, Calif.

Application August 26, 1957, Serial No. 680,172

1 Claim. (Cl. 242—55.53)

The present invention relates to new and useful improvements in tissue roll holders and has for its primary object to provide, in a manner as hereinafter set forth, a holder of this character comprising novel means for facilitating the insertion in and removal of said holder from the usual container or wall recess.

Another very important object of the invention is to provide a tissue roll holder of the character described comprising a novel construction of telescopic spindle.

Other objects of the invention are to provide a tissue roll holder of the aforementioned character which will be comparatively simple in construction, strong, durable, compact and which may be manufactured at low cost.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a view in front elevation, showing a tissue roll holder embodying the present invention in position in a container of the wall recess type;

Figure 2 is a longitudinal sectional view, taken substantially on the line 2—2 of Figure 1; and

Figure 3 is a view in transverse section, taken substantially on the line 3—3 of Figure 2.

Referring now to the drawing in detail, it will be seen that reference character 4 designates a conventional container which is recessed into a wall, as indicated at 5. The container 4 is open at its front, as usual. The side walls 6 of the container 4 have formed integrally therewith opposed bearings or sockets 7.

The embodiment of the present invention which has been illustrated comprises a roller or spindle of suitable plastic which is designated generally by reference character 8. The spindle 8 is adapted to be removably mounted transversely in the container 4 in the sockets 7.

The spindle 8 includes telescopic male and female members 9 and 10, respectively. Extending longitudinally into the female member 10 of the spindle 8 is a bore or socket 11 which slidably accommodates the male member 9. The bore 11 terminates in spaced relation to the other end of the female member 10 and has formed in its inner end portion a circumferential groove 12. The male member 9 terminates in a reduced inner end portion 13 providing a shoulder 14. Immediately adjacent the shoulder 14 the reduced inner end portion 13 of the male member 9 has formed therein a circumferential groove 15. Mounted in the inner end portion of the bore 11 is a coil spring 16 which encircles the portion 13 of the male member 9. At one end, the spring 16 terminates in an enlarged coil 17 which is engaged in the groove 12 for anchoring said spring in the bore 11. At its other end, the spring 16 terminates in a reduced coil 18 which is engaged in the groove 15 for anchoring the male member 9 to said spring. At its outer end, the male member 9

2

terminates in a trunnion 19 which is engaged in the adjacent socket 7 for mounting this end of the spindle 8 in the container 4. At its outer end the female member 10 terminates in substantially frusto-conical trunnion 20 which is engaged in the other socket 7 for rotatably supporting this end of the spindle 8 in the container 4.

Formed integrally with the outer end of the female member 10 is an operating flange or disk 21. The flange or disk 21 is of a diameter to project beyond the front of the container 4.

It is thought that the use of the holder will be readily apparent from a consideration of the foregoing. Briefly, in Figure 1 of the drawing, reference character 22 designates a roll of paper through the usual core of which the spindle 8 extends. The coil spring 16 extends the telescopic spindle 8 for yieldingly engaging the trunnions 19 and 20 in the sockets 7 in an obvious manner. Thus, the roll 22 is rotatably supported in the container 4 in spaced relation to the walls thereof. To remove the roll core 20 after the paper has been exhausted, the operator pushes inwardly on the exposed projecting portion of the flange or disk 21 for sliding the female member 10 inwardly on the male member 9 against the tension of the coil spring 16. In this manner the trunnion 20 is disengaged from its respective socket 7 and this end of the spindle 8 may now be swung forwardly out of the container 4, after which the trunnion 19 may be withdrawn from its respective socket 7. The spring 16, having its end coils 17 and 18 engaged in the grooves 12 and 15, respectively, prevents separation of the members 9 and 10. To replace the spindle 8 with a new roll mounted thereon the foregoing procedure is substantially reversed.

The foregoing is considered as illustrative only of the principles of the invention. While the invention has been shown in conjunction with a container of the recessed wall type for dispensing rolls of tissue, the device obviously may be used for any other purpose for which it may be found adapted and desirable as, for example, holding rolls of paper towels in pedestal and other types of dispensers. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly all suitable modifications and equivalents may be resorted to, falling within the scope of the invention as claimed.

What is claimed as new is as follows:

A tissue roll holder of the character described comprising: a telescopic spindle of circular cross section including a female member having a bore extending thereinto from one end thereof and terminating in spaced relation to its other end, said bore having a circumferential groove in its inner end portion, said male member being slidable in the bore and including a reduced inner end portion providing a shoulder, said reduced inner end portion of said male member having a circumferential groove therein immediately adjacent the shoulder, a coil spring in the bore encircling said reduced end portion of said male member, said coil spring including an enlarged coil on one end engaged in the first named groove for anchoring said spring in the bore and further including a reduced coil on its other end engaged in the second named groove for anchoring said male member to said spring, said spring yieldingly urging the male member outwardly in the female member, and trunnions on the ends of the spindle for mounting same in a container.

References Cited in the file of this patent

UNITED STATES PATENTS

1,045,311	Moberg	Nov. 26, 1912
2,602,601	Balz	July 8, 1952