

UNITED STATES PATENT OFFICE

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PAPER ROLL HOLDER

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2 Claims. (Cl. 242—55.2)

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This invention relates to improvements in paper roll holder.

The main objects of this invention are:

First, to provide a holder for paper rolls such as toilet paper and paper rolls generally, particularly those designed for domestic use, in which the roll supporting spindle may be easily released or disengaged from fixed brackets or support members provided with spindle bearings.

Second, to provide a structure of this character which is simple and economical in its parts and easily manipulated.

Objects pertaining to details and economies of the invention will definitely appear from the description to follow. The invention is defined in the claims.

A structure which embodies the features of the invention is clearly illustrated in the accompanying drawing, in which:

Fig. 1 is a fragmentary view partially in longitudinal section of a paper roll holder embodying my invention.

Fig. 2 is a fragmentary view partially in section of a modified form or embodiment of my invention in which the holders or support members are of the inset type.

In the embodiment of the invention illustrated in Fig. 1 the numeral 1 represents the wall or other main support on which brackets 2 and 3 are mounted in spaced relation to receive the roll of paper 4 between them. These brackets or support members are provided with inwardly facing opposed bearings 5 and 6, respectively, adapted to receive the journal portions 7 and 8 of the spindle members or sections 9 and 10. The main body portion of the spindle members is of such diameter as to fit within the core 11 of the paper roll.

The spindle members or sections may be desirably formed of wood. They are formed with shoulders 12 at the bases of their journals, these shoulders being in thrust engagement with the inner sides of the bracket. The spindle member 9 has a longitudinal bore 13 receiving the reduced inner end 14 of the spindle member 10. The coiled spring 15 seated within the bore yieldingly urges the spindle members outwardly relative to each other and their shoulders against the inner side of the support which maintains their journals in bearing relation to the support bearings.

To facilitate release of the spindle or disengagement from its supports, I provide a spindle release rod 16 disposed through a bore 17 in the support 3 and opening to the bearing 6 thereof.

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This release rod is provided with a head 18 at its inner end engaging the end of the spindle section 10. It is provided at its outer end with a finger piece 19 which has threaded engagement therewith, this permitting the ready assembly of the release member and retaining it in assembled relation to the support 3. When it is desired to release the spindle it is only necessary to press on the release rod which collapses the spindle against the thrust of the spring, forcing its journal out of engagement with its bearing and permitting the spindle to be withdrawn. To engage the spindle with a fresh roll of paper, one end may be entered into its bearing, the spindle collapsed and pushed into alignment with the other bearing. The bearings are of such size as to permit this tilting movement and, of course, there is no particular object in having a close fit.

In the embodiment of the invention shown in Fig. 2 I illustrate an adaptation to a box-like inset holder 20. In this embodiment the ends 21 of the holder constitute the spindle support members. They are provided with bearing openings 22 receiving the journals of the spindle which is the same as that described for Fig. 1. The release member 23 is pivoted at 24 and conformed to engage one end of the spindle. A push button 25 extends through a hole 26 in the flange 27 of the holder, the flange having an outwardly facing recess 28 to receive the finger piece 29. The spindle is released by pushing on the release member which imparts collapsing end thrust to the spindle.

I have illustrated and described the invention in Figs. 1 and 2 as adapted to different types of fixtures. It is believed that this disclosure will enable those skilled in the art to which the invention relates to embody or adapt the same as may be desired.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. In a holder for paper rolls, the combination of brackets having opposed inwardly facing spindle bearings, one bracket having an outwardly facing recess aligned with its spindle bearing and a bore between the bottom of the recess and the aligned spindle bearing, a roll spindle comprising telescoping sections provided at their outer ends with journal portions coacting with said bearings and outwardly facing shoulders normally in thrust engagement with the inner sides of the brackets, one of said sections having a longitudinal bore and the other a reduced portion extending into said bore, a spring arranged

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in said bore and acting to urge said sections yieldingly against said brackets, and a spindle release rod arranged in said bore in said bracket and provided with a head at its inner end engaging the adjacent end of said spindle and with a finger piece at its outer end adapted to enter said recess, the actuation of said release rod collapsing said spindle to facilitate its disengagement from said bracket bearings.

2. In a holder for paper rolls, the combination of brackets having opposed inwardly facing spindle bearings, one bracket having an outwardly facing recess aligned with its spindle bearing and a bore between the bottom of the recess and the aligned spindle bearing, a roll spindle comprising telescoping sections, a spring acting to yieldingly urge said spindle sections into coacting relation with said bracket bearings, and a spindle release rod arranged in said bore in said bracket and provided with a head at its inner end engag-

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ing the end of the adjacent spindle section and with a removable finger piece at its outer end facilitating the collapsing and releasing of the spindle from its bearings.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
609,228	Clarke -----	Aug. 16, 1898
723,806	Avis -----	Mar. 31, 1903
840,651	Otto -----	Jan. 8, 1907
925,105	Kaufman -----	June 15, 1909
1,045,311	Moberg -----	Nov. 26, 1912
2,253,664	Vigo -----	Aug. 26, 1941
2,313,776	Segal -----	Mar. 16, 1943