Aug. 19, 1952 F. E. GILLESPIE, JR 2,607,546

TOILET PAPER DISPENSER

Filed Aug. 11, 1950 2 SHEETS—SHEET 1

Fig. 1.

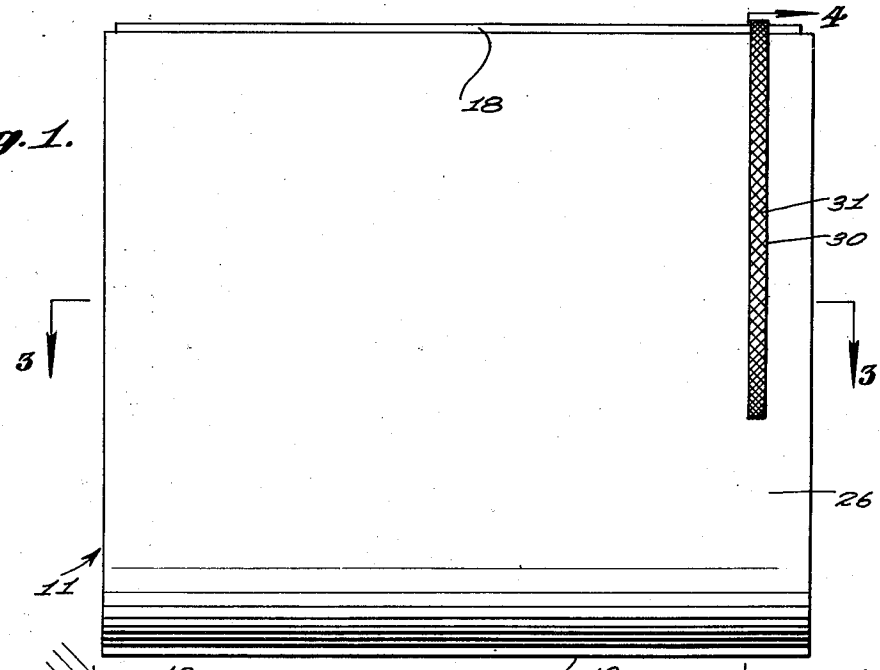
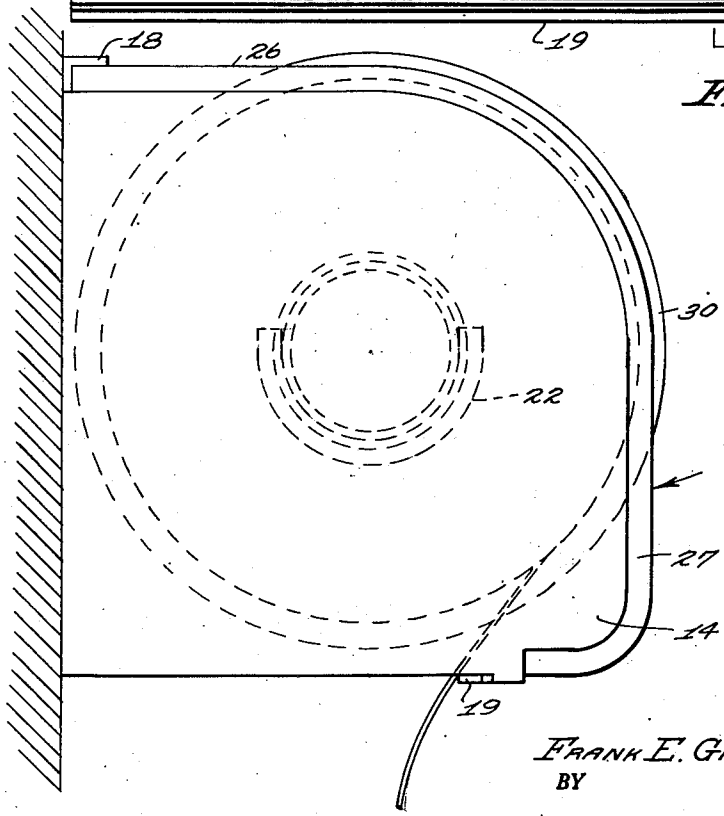


Fig. 2.



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Fig. 3.

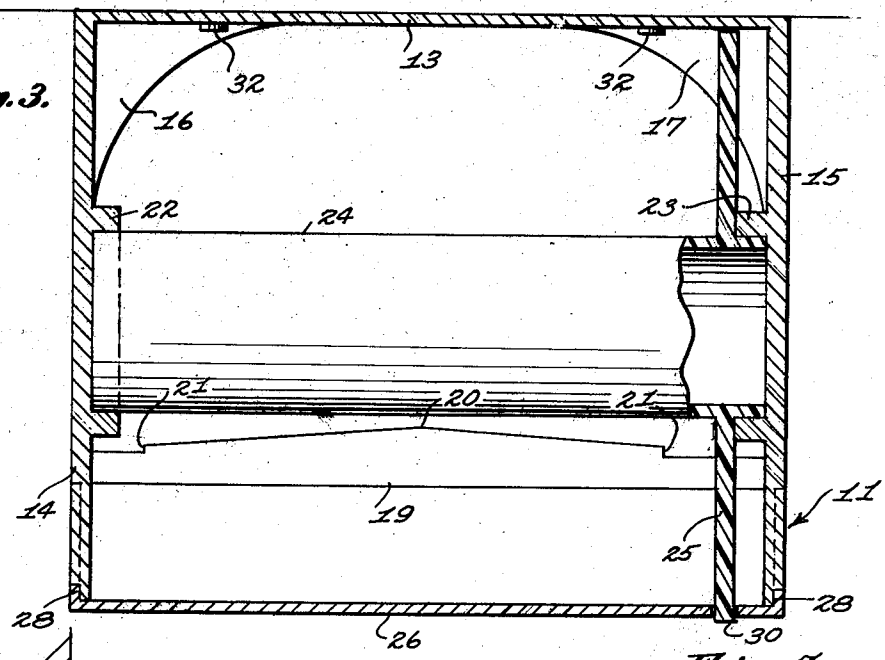
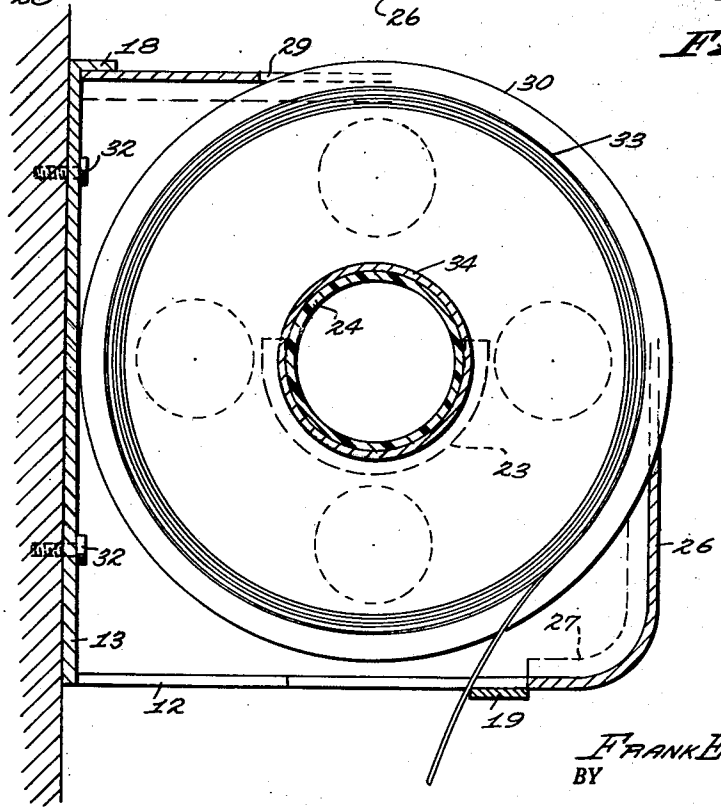


Fig. 4.



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TOILET PAPER DISPENSER

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1 Claim. (Cl. 242—55.5)

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This invention relates to paper dispensing devices, and more particularly to a toilet paper dispenser.

The main object of the invention is to provide a novel and improved paper roll dispenser which is simple in construction, which is easy to install, which is very simple to operate and which provides a clean tearing action when paper is removed therefrom.

A further object of the invention is to provide an improved paper roll dispenser which is very inexpensive to manufacture, which is neat in appearance, which involves only a very few parts, which provides a sanitary covering for the paper roll contained therein, and which is readily disassembled for replacement of the paper roll whenever a new roll is required.

Further objects and advantages of the invention will become apparent from the following description and claim, and from the accompanying drawings, wherein:

Figure 1 is a front elevational view of an improved paper roll dispenser constructed in accordance with the present invention.

Figure 2 is a side elevational view of the improved paper roll dispenser of Figure 1.

Figure 3 is a cross sectional view taken on line 3—3 of Figure 1.

Figure 4 is a cross sectional view taken on line 4—4 of Figure 1.

Referring to the drawings, the paper roll dispenser is designated generally at 11. The dispenser comprises a main supporting body 12 comprising a rear wall 13 and the forwardly extending opposing side walls 14, 15 integral with the rear wall 13. The side walls 14, 15 are braced to the rear wall 13 by the bottom web elements shown respectively at 16 and 17 in Figure 3. The rear wall 13 is provided at its top edge with the forwardly projecting flange 18. Connecting the lower forward corner portions of the side walls 14, 15 is the horizontally extending bar member 19, the inwardly facing edge of the bar member tapering to a point at its mid portion, as shown at 20, and being formed with respective shoulders 21, 21 adjacent to but spaced inwardly from the respective ends of said edge.

The side walls 14, 15, are formed at their inside surfaces with respective arcuate, upwardly facing seats 22, 23, and rotatably received in said seats are the respective ends of a hollow shaft member 24. Integrally secured to the shaft member 24 adjacent the seat 23 is a relatively large disc member 25. Designated at 26 is a front cover member shaped to fit over the forward and top

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edges of the side walls 14, 15 and formed with marginal side flanges 27 which are receivable in correspondingly shaped recesses 28 extending along the margins of said side walls, the flanges 27 being frictionally engaged in said recesses and exerting binding force therein. The top margin of the cover member 26 is snugly received beneath the flange 18 and is frictionally secured therebeneath. The cover member 26 is formed with a slot 29 located in the same plane as the disc 25 and receiving the peripheral portion of said disc. The peripheral portion of the disc, shown at 30, projects through the slot 29 and provides a means for manually rotating the shaft member 24 from the outside of the dispenser. The periphery of the disc is knurled, as shown at 31, to facilitate manual rotation thereof.

In installing the device, the rear wall 13 of the main supporting member 12 is secured to a wall by suitable fasteners, such as shown at 32, 32 passing through the rear wall 13 and engaged in the supporting wall. The shaft member 24 is of substantial diameter and is of a diameter such that it will enter the hollow paper core of a standard toilet roll and be frictionally locked therein. It will be understood that the paper core of a typical toilet roll is normally non-circular in cross section due to the fact that in packing the paper rolls pressure is exerted on said rolls causing the hollow cardboard core thereof to become distorted and to become oval in cross section rather than remaining circular in cross section. Therefore, when the shaft member 24 is inserted into such a core, the core tends to grip the shaft member and to become frictionally locked thereto.

With the paper roll thus engaged on the shaft member 24, said shaft member is positioned with its ends in the seat members 22, 23 and with the end of the roll of paper extending past the inner edge of the bar 19, in the manner shown in Figure 4. In Figure 4, the roll of paper is designated at 33 and the cardboard core of said paper roll is designated at 34. With the paper roll and the shaft member 24 thus positioned, the cover member 26 is then engaged over the edges of the side walls 14, 15 and is moved into the position shown in Figures 3 and 4, wherein the top margin of the cover member is engaged beneath the flange 18 and wherein the side flanges 27, 27 are engaged in the marginal recesses 28, 28 of said side walls. It will be seen from Figure 3 that the shoulders 21, 21 are located a short distance inwardly from the seat members 22, 23, said shoulders being likewise located slightly inwardly of the side marginal edges of the end of the paper

roll extending past the inwardly facing edge of the bar member **19**. Therefore, when it is desired to tear off the depending end of the roll of paper, the operator merely exerts a pull on one edge portion of the depending section of paper, causing said edge portion to engage against one of the shoulders **21** and initiating the tear in the paper. Continued side pull on the piece of paper will cause the paper to be sheared against the inwardly facing edge of the bar member **19**, thereby providing a clean tear. To move another section of paper into position for severance, the operator merely rotates the disc member **25** clockwise, as viewed in Figure 4, thereby causing the paper to unroll into position for the severance of an additional section.

It will be noted that the cover member **26** closely follows the contour of the forward upper portion of a paper roll mounted in the device and that the disc member **30** is substantially in engagement with the end of the slot **29**, whereby the shaft member **24** is retained on the seat members **22**, **23**. To replace a roll of paper, it is merely necessary to remove the cover member **26**, to slip the cardboard core of the former paper roll off the shaft member **24** and to mount a new paper roll on said shaft. The shaft is then replaced in the seat members **22**, **23** and the cover member **26** is placed on the device in the position shown in the figures.

While a specific embodiment of an improved paper roll dispenser has been disclosed in the foregoing description, it will be understood that various modifications within the spirit of the invention may occur to those skilled in the art. Therefore, it is intended that no limitations be placed on the invention except as defined by the scope of the appended claim.

What is claimed is:

A paper roll dispenser comprising a housing having a back wall adapted to be fixedly superimposed on a vertical supporting surface, opposed vertical side walls projecting forwardly from the back wall, opposed bearing seats formed on the inside surfaces of the side walls, an arcuate cover member detachably mounted on the side walls and back wall and forming a top wall and a front wall, said cover member having a slot formed therein adjacent a side margin thereof, a shaft member rotatably supported at its ends in the bearing seats and adapted to extend through and frictionally engage in the core of a roll of paper, a disc member circumposed on said shaft member and having its peripheral portion extending through the slot in the cover member, and a horizontal shearing bar transversely disposed between the side walls adjacent the lower edge of the front wall, said bar having an inwardly facing edge tapering to a point at its mid-portion and having respective shoulders adjacent to but spaced inwardly from the respective ends of the bar.

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REFERENCES CITED

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

UNITED STATES PATENTS

Number	Name	Date
1,415,722	Silverman	May 9, 1922
1,515,238	Baker	Nov. 11, 1924
1,704,044	Ingram	Mar. 5, 1929
1,805,619	Fuller	May 19, 1931
1,838,307	Hallock	Dec. 29, 1931
1,946,105	Parlett	Feb. 6, 1934
2,422,749	Rougas	June 24, 1947