Aug. 28, 1951 E. D. SEVENICH 2,565,994

TOILET PAPER DISPENSER

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FIG. 1.

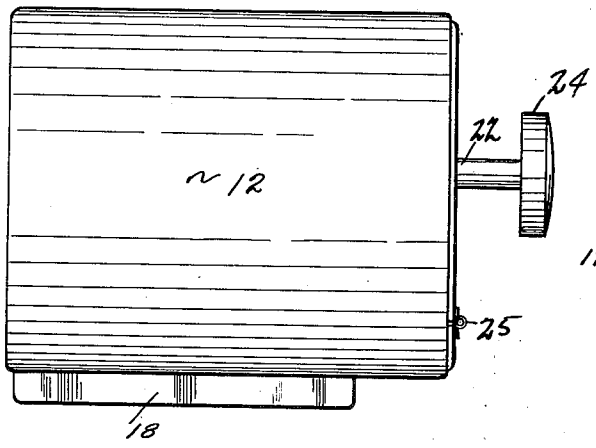

FIG. 2.

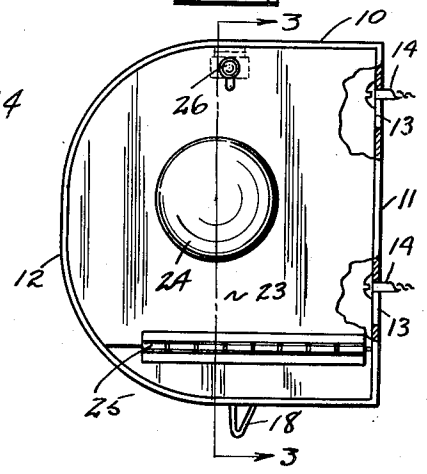

FIG. 3.

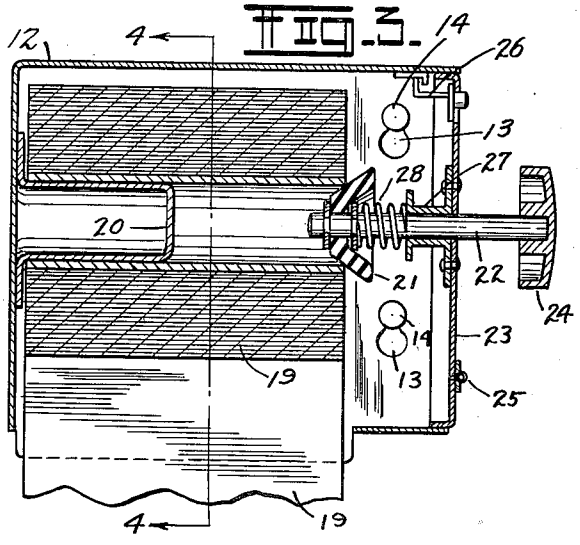

FIG. 4.

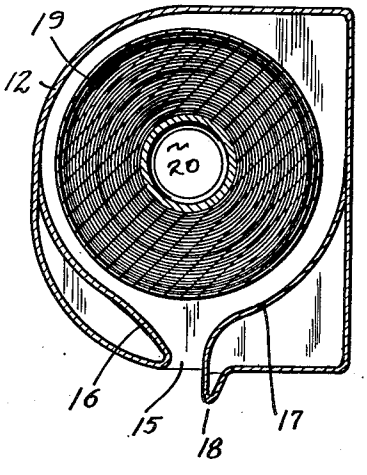

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Fig. 5.

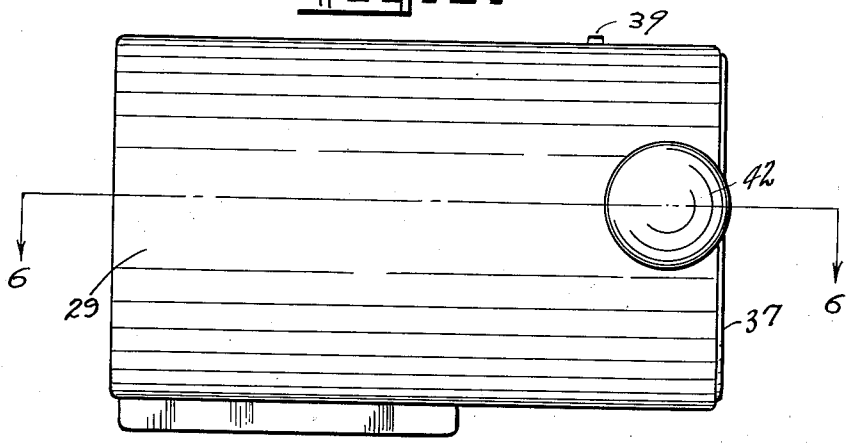


Fig. 6.

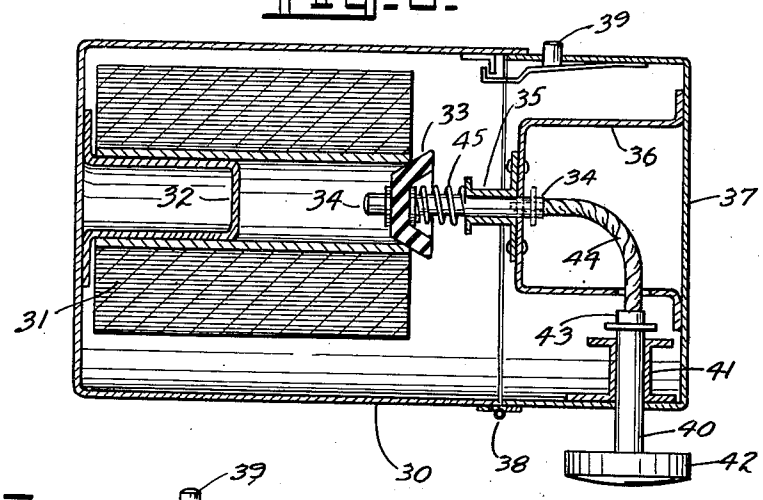
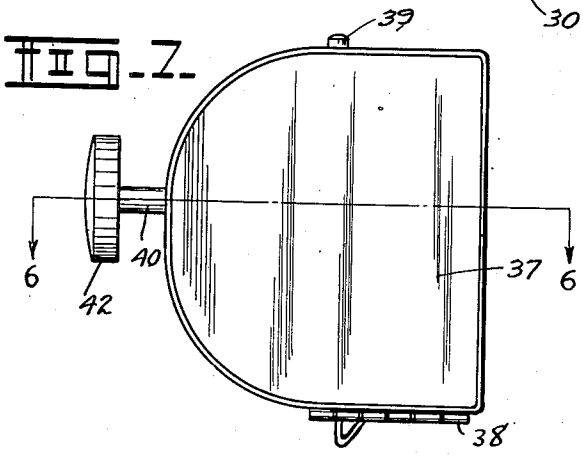


Fig. 7.



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TOILET PAPER DISPENSER

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2 Claims. (Cl. 242—55.2)

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This invention relates to a toilet paper dispenser and more particularly to a dispenser having means for positive manual operation of the same.

The principal object of the invention is the provision of a toilet paper dispenser having manually operable means for dispensing paper therefrom.

A further object of the invention is the provision of a toilet paper dispenser adapted to receive a roll of toilet paper and dispense continuous lengths therefrom.

A still further object of the invention is the provision of a toilet paper dispenser of a neat and attractive appearance in which paper to be dispensed is completely enclosed.

A still further object of the invention is the provision of a dispenser for a roll of toilet paper, the dispenser being adapted to operate regardless of the positioning of the roll of paper therein.

A still further object of the invention is the provision of a toilet paper dispenser which may be manually operated from one side thereof for the positive dispensing of paper therefrom.

A still further object of the invention is the provision of a toilet paper dispenser which may be operated from the front thereof for dispensing paper therefrom.

The toilet paper dispenser shown and described herein has been designed to form an attractive means for dispensing toilet paper in roll form which may be affixed to a supporting wall surface, for example, and which completely encloses the paper positioned therein. Means is provided for rotating a roll of paper therein so as to provide for the positive dispensing of the same from the dispenser.

The operating means is designed so that it may be positioned on the end of the dispenser or on a front portion thereof. The device is of simple construction and may be economically formed and in use provides an attractive, inconspicuous, sanitary bathroom fixture.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

The invention is illustrated in the accompanying drawing, wherein—

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Figure 1 is a front plan view of the toilet paper dispenser.

Figure 2 is an end elevation of the toilet paper dispenser.

Figure 3 is a vertical cross section taken on line 3—3 of Figure 2.

Figure 4 is a vertical cross section taken on line 4—4 of Figure 3.

Figure 5 is a front plan view of a modified form of toilet paper dispenser.

Figure 6 is a horizontal cross section taken on line 6—6 of Figure 5.

Figure 7 is an end elevation of the toilet paper dispenser shown in Figures 5 and 6.

By referring to the drawings and Figures 1, 2, 3 and 4 in particular it will be seen that a toilet paper dispenser has been disclosed which comprises a hollow body member 10, the back portion 11 of which is flat and the front portion 12 of which is preferably curved. The back portion 11 is provided with a plurality of keyhole slots 13 by means of which the dispenser may be mounted on a supporting surface, as, for example, by engaging the same over the heads of screws driven into a suitable supporting surface such as a wall.

In Figures 2 and 3 of the drawings supporting screws 14 are illustrated in position in the keyhole slots 13. The hollow body member 10 has a transversely positioned opening 15 in its bottom portion and curving false bottom sections 16 and 17 formed in the hollow body member on the front and back sides, respectively, of the transversely positioned opening 15. A part of the false bottom portion 17 extends downwardly below the opening 15 so as to form a lip 18. By referring to Figure 4 of the drawings it will be observed that the false bottom portions 16 and 17 of the device provide downwardly sloping surfaces ideally adapted for guiding paper unrolled from a roll 19 which is positioned in the hollow body 10 of the dispenser in a rotatable manner on a projecting element 20.

It will be observed by referring to Figure 3 of the drawings that the projecting element 20 engages slightly less than half of the core of the roll of paper 19 and that the outermost end or right hand end portion of the roll 19 is supported by frictional engagement of a cone-shaped rotating member 21 which is positioned on the end of a shaft 22 which extends outwardly through an end wall 23 of the dispenser and has a knob 24 positioned thereon so that it may be rotated thereby. The end wall 23 is attached to the remainder of the dispenser by a hinge 25 and is

normally held in vertical position, as shown, by means of a latch 26 which may be operated manually to open the end section 23 so that the roll of paper 19 may be replaced in the dispenser.

The end section 23 is provided with a tubular bearing 27 about the shaft 22, which tubular bearing 27 is flanged at its outermost end so as to be able to maintain a coil spring 28 between the flanged outer end of the bearing 27 and the inner surface of the cone-shaped member 21. The spring 28 thus normally urges the shaft 22 and the cone-shaped member 21 thereon into frictional engagement with the core of the roll of paper 19 and thereby holds the same in desirable relationship in the dispenser and enables it to be rotated by manual rotation of the knob 24. It will thus be seen that paper may be dispensed from the roll 19 by rotating the knob 24 which in turn imparts rotating movement to the cone-shaped member 21 which is frictionally engaging the core of the roll of paper 19 so as to cause the same to rotate and thereby unwind paper therefrom. As shown in Figure 3 of the drawings, the unwinding paper is guided by one or the other of the false bottom sections 16 and 17 into the transverse opening 15 and hence out of the dispenser adjacent the lip 18 against which it may be readily torn, if desired.

It will thus be seen that a simple and efficient toilet paper dispenser has been disclosed which may be economically formed and which may be conveniently operated.

Modifications in the device disclosed will be obvious to those skilled in the art and one such modification, for example, would comprise the positioning of the operating knob on the front of the dispenser rather than on an end wall thereof. By referring to Figures 5, 6 and 7 of the drawings a toilet paper dispenser incorporating such a modification may be seen.

In Figures 5, 6 and 7 of the drawings the dispenser will be seen to comprise a hollow body member 29 having a dispensing opening 30 in the bottom thereof and means therein for holding a roll of paper 31 in rotatable position. The means includes a projecting member 32 and a cone-shaped member 33 which is positioned on one end of a shaft 34 and in a position so as to engage the core of the roll of paper 31 which is partially positioned on the projecting member 32. The shaft 34 is rotatably journaled in a tubular bearing 35 which in turn is carried on an inwardly extending portion 36 of an end wall 37. The end wall 37 of the device is flanged and forms in effect a continuation of the hollow body member 29 of the dispenser and is hinged thereto along its bottom-most portion by means of a hinge 38. A latch 39 is provided so that the end section may be opened outwardly and downwardly to permit access into the interior of the dispenser.

A secondary shaft 40 is journaled in a secondary tubular bearing 41 in the flanged area of the end wall 37 and the secondary shaft 40 carries an operating knob 42 on its outermost end and is connected at its innermost end 43 to a flexible shaft 44 which in turn is connected to

the shaft 34 heretofore described. It will thus be seen that when the operating knob 42 is rotated, rotating motion is imparted to the cone-shaped member 33 which frictionally engages the core of the roll of paper 31 by reason of a coil spring 45 positioned between the end of the tubular bearing 35 and the cone-shaped member 33 so that the roll of paper 31 is revolved.

It will thus be seen that two forms of the invention have been disclosed and that both of the forms of the invention are practical and efficient in operation and capable of simple and economic manufacture. In addition they both form attractive, inconspicuous, sanitary means for dispensing toilet paper and thereby meet the several objects of the invention.

Having thus described my invention, what I claim is:

1. In a toilet paper dispenser comprising a hollow body member having a fixed end wall; a stationary core-like projecting element positioned centrally thereon and extending inwardly therefrom and upon which one end of a roll of toilet paper may be rotatably engaged, an oppositely disposed end wall of the said hollow body member being hingedly attached thereto, a shaft movably positioned through said hinged end wall, a resilient cone positioned on the inner end of said shaft for engaging the other end of the said roll of paper, a knob on the outer end of said shaft by which rotating motion may be manually imparted to said cone and said roll of paper, and an opening in the said dispenser through which paper may emerge.

2. A toilet paper dispenser comprising a hollow body member including a fixed end wall having a stationary core-like projection therein upon which a roll of paper may be rotatably positioned, an end portion of the said hollow body member being hinged with respect to the remainder, an operating knob on the front of the said hinged portion, a rotatable cone-like member movably mounted in the said hinged portion for engaging an end of the said roll of paper and a flexible shaft connecting the said cone-like member with the said operating knob so that the roll of paper may be revolved thereby, an opening in the bottom of the said dispenser through which paper unwinding from the roll may emerge from the dispenser.

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