April 12, 1960 E. G. MAU 2,932,463

ROLL PAPER DISPENSERS

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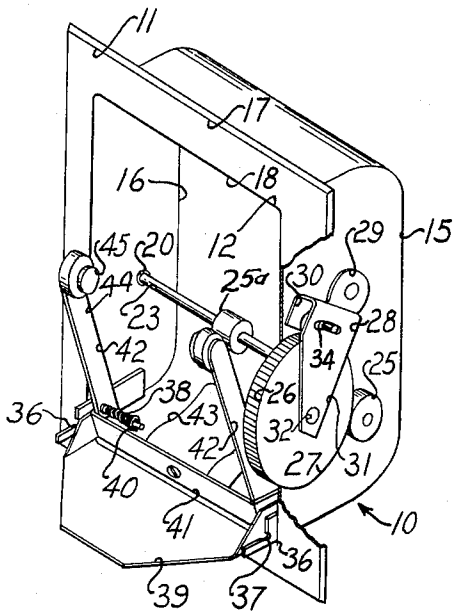


Fig. 1

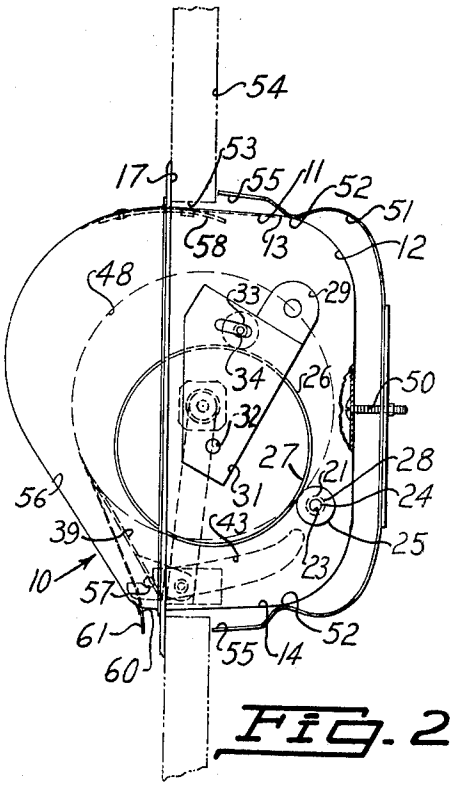


Fig. 2

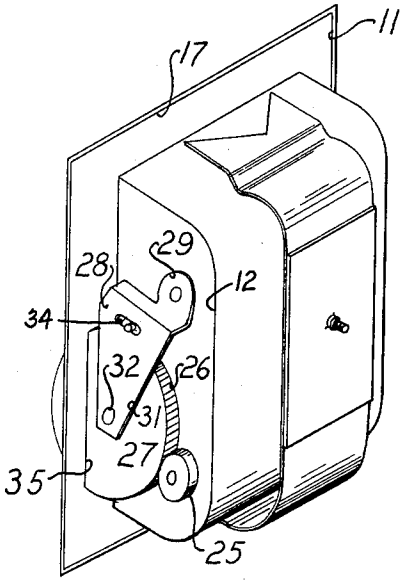


Fig. 3

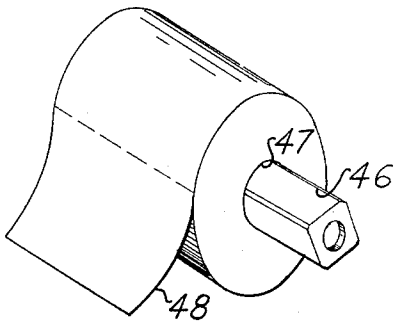


Fig. 4

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ROLL PAPER DISPENSERS

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1 Claim. (Cl. 242—55.53)

This invention relates to paper devices and more particularly to a roll paper dispenser.

An object of this invention to provide a self-contained roll paper dispenser which is arranged to be inserted within an opening in the wall of a bathroom or other appropriate place and wherein such device is locked within such opening without benefit of any fastening means, screwed or otherwise secured to the wall adjacent said opening.

A further object of the invention is to provide a novel and improved roll paper dispenser which is compact in structure, easy and positive in operation, of design simple to install, and wherein rolls of paper may be replaced requiring minimum of effort or skill.

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 view in perspective of the improved paper roll dispenser constructed in accordance with the present invention.

Figure 2 is a side elevational view of the improved paper roll dispenser as installed within a wall opening or recess.

Figure 3 is a rear view in perspective of the improved paper roll dispenser shown in Figures 1 and 2.

Figure 4 is a perspective view of the roll holder used in connection with a form of roll paper to be dispensed.

Referring to the drawings, the paper roll dispenser is designated generally by the numeral **10**. The dispenser comprises a main supporting housing **11** comprising a rear wall **12**, a top wall **13**, a bottom wall **14** and forwardly extending side walls **15** and **16**, all walls being integral with each other. In addition, a front panel **17**, having an enlarged opening **18**, is permanently secured to the free ends of said top, bottom, and side walls. The side walls **15** and **16** are braced by welding, casting, stamping, or other suitable methods, to the edges of the top, bottom, and rear walls, said last named walls being formed by a single piece of sheet material bent into the appropriate shape.

The side walls are provided with opposed bearing seats **20** and **21**. The seat **21** has an opening extending completely through said seat whereby a rotatable shaft **23** is received in said seats with said shaft at one end **24** extending through seat **21** and exterior of the housing. A roller **25** of rubber, or any other friction or suitable material, is mounted on the end **24** of shaft **23** and is arranged to be in rolling engagement with the knurled circumferential surface **26** of the disk wheel **27**. A second roller **25***a* of rubber or other suitable material is mounted on shaft **23** midway between the side walls **15** and **16**.

Outward movement of the shaft through the seat **21** is prevented by any suitable restraining member on shaft **23** and butts against the inside surface of wall **15**. A bracket member **28**, having an outwardly extending portion **29**, is secured through said portion **29** to the exterior of wall **15** and above and to the side of roller **25**.

The base of the bracket is U-shaped, as designated by the numeral **30**, with the outside of one of the U-shaped sides **31** extending a substantial distance downwardly along and parallel to side wall **15**. The side **31** is apertured adjacent its free end to mount a pin **32** for retaining the disk wheel **27**. Mounted in the U of the clamp is a latch **33** with a pin that may move within a slot **34** of the U. This latch **33** is engaged with the disk wheel **27** and will move freely as the disk wheel is rotated in counter-clockwise direction but will prevent movement of the disk wheel in clockwise direction; the manner of rotative movement can be dependant on the particular arrangement of the device. The front panel **17** is slotted at **35** to permit extension of a portion of the disk wheel through it and accessible to manipulation on the part of an operator.

Secured to each side wall adjacent the bottom wall **14** and in the front portion thereof are cover holding brackets **36**, each provided with a recessed portion **37**. Mounted in each bracket **36** is a pin **38**, the free ends of which extend toward each other. These pins are arranged to mount a splitter tongue **39** under spring tension by a coil spring **40** encircling said pins, in each instance. I also contemplate that a counter-weight may be used in place of a spring. In addition, a longitudinal bracket member **41** together with swinging spaced arms **42** are mounted on said pins. A counterweight **43** is mounted on the member **41** and used to normally swing the arms **42** into the dispenser.

The free ends **44** of the arms have roll holding elements **45** which extend inwardly at right angles to the arms. These elements are spaced sufficiently apart to receive each end of a squared core **46**, Figure 4, which frictionally engages the center opening **47** of the roll **48**. These arms are also arranged so that their free ends may swing away from each other to readily receive the core **46** and are also mounted at their other ends under spring tension whereby upon engagement with the core, the elements **45** grip the core under normal spring tension.

Disposed within the back wall **12** and in the center thereof is a threaded bolt **50**, the free end of which extends through said wall and is threadedly engaged with an expansible type mounting bracket **51**. This bracket is bent in the form of an U with the arms **52** normally pressing down on the exterior surface of the top and bottom walls. Prior to inserting the dispenser through the opening **53** in the wall **54**, the ends **55** of the arms lie close to the exterior surfaces of the top and bottom walls. That is, the distance between the ends of these arms is less than the opening **53**. After the dispenser has been inserted through the opening to the depth of the back of the panel **17** engaging the front surface of the wall **54**, manual turning of the bolt **50** will draw the bracket **51** toward the back wall of the dispenser. Movement of the bracket **51** in this manner will cause outward movement of the ends **55** until these ends push against the back surface of the wall **54**. By these means, the dispenser is rigidly held in place in the wall opening.

The arms **42** may be then swung outwardly and the roll of paper **48** placed between the portions **45**. The roll **48** always is in contact with the rubber roller **25***a* and rotative action of the disk wheel **27** will unreel the paper because of engagement between wheel **27** and roller **25**.

A cover **56** with pins **57** engaging the notches **37** is pushed inwardly to enclose the front of the dispenser. The top of the cover has a forwardly extending spring end member **58** which may be readily pushed into the interior of the dispenser so it may frictionally engage the inside surface of the top wall **13**.

There is substantial clearance between the botton edge of the cover and the bottom of the panel to provide a

longitudinally extending opening 60 through which the paper 61 may be withdrawn.

The invention is directed to a roll paper holder, very compact in construction, arranged for easy mounting, comparatively economical to build, and providing a useful need in the art.

I do not mean to confine myself to the exact details of construction herein disclosed, but claim all variations falling within the purview of the appended claim.

I claim:

An apparatus for dispensing roll paper comprising a housing open at the forward face thereof; a paper roll support mounted within the housing on a substantially horizontal axis for swinging movement about such axis; said support comprising a longitudinal bracket and spaced arms, said spaced arms mounted in the housing for swinging movement, said roll supported between said arms for rotation about its own axis, rotative friction means mounted in the housing and situated in the path of swinging movement of the arms for frictionally engaging the roll; means carried in the housing for rotating the friction means to unwind the paper roll, said means comprising a shaft extending exterior of said

housing, a friction roll arranged on said shaft exterior of said housing, a knurled disk wheel, a U-shaped bracket mounted on the exterior of said housing, said bracket arranged to rotatably mount said disk wheel, said disk wheel arranged to engage said friction roll, a latch, said latch mounted in said bracket and arranged to move freely as said disk wheel is rotated in a counter-clockwise direction and arranged to prevent movement of said disk wheel in clockwise direction, a counterweight mounted on said longitudinal bracket and connected to said arms whereby the arms are swung into the housing to urge said paper roll against said friction means.

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