Sept. 27, 1927. 1,643,380

R. E. JORDAN

RECEPTACLE FOR ROLLS OF TOILET PAPER

Filed March 5, 1924

Fig. 1.

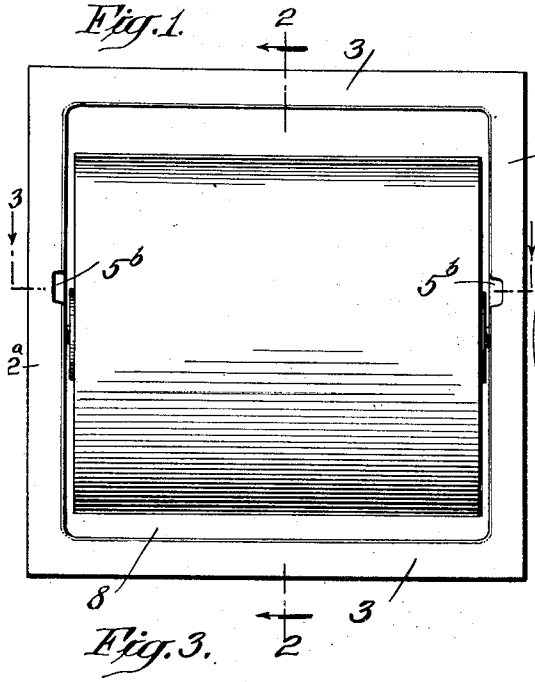


Fig. 2.

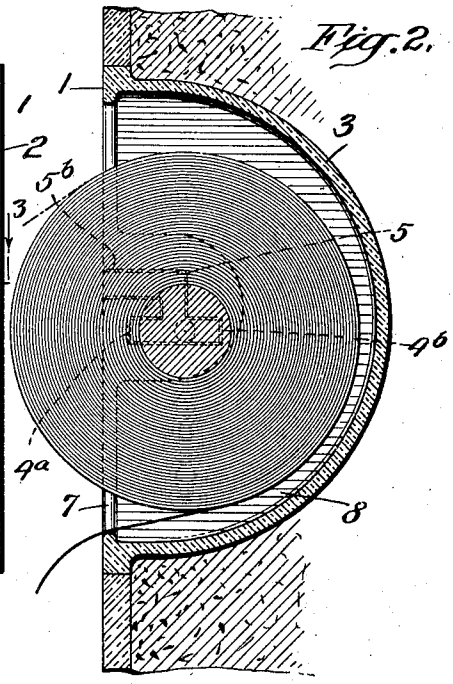


Fig. 3.

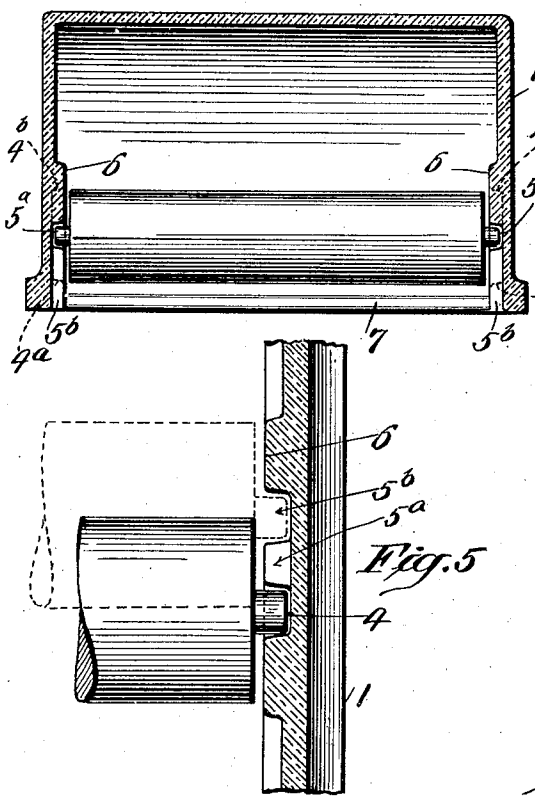


Fig. 4.

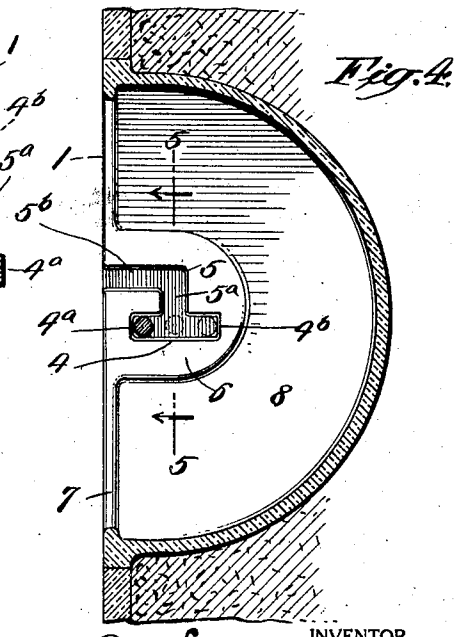


Fig. 5.

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UNITED STATES PATENT OFFICE.

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RECEPTACLE FOR ROLLS OF TOILET PAPER.

Application filed March 5, 1924. Serial No. 696,963.

This invention relates to improvements in receptacle for rolls of toilet paper.

The object of this invention is to provide in a roll receptacle, preferably composed entirely of ceramic material, spindle bearing grooves which will positively and securely engage and lock the conventional roller in bearing position and at the same time provide for a ready release and removal of the roller therefrom.

Another object of the invention is to provide in a roll receptacle a bearing groove in which the spindle of the roller is movable horizontally to permit the use within the receptacle of paper rolls of varying diameters.

Another object is to provide a spindle-bearing groove and an entrance groove communicating therewith in such a manner as to cause a locking of the spindle in the bearing groove against removal thereof by any paper-delivering pull on the paper, said grooves being so arranged as to make it necessary to positively engage and lift the roll of paper and spindle vertically and then outwardly in order to disengage the same from the holder.

Another object of my invention is to produce a receptacle in which the edges of the paper roller will be suitably spaced from the sides of the receptacle to prevent sticking or jamming; in which the spindle may be readily and quickly moved into locking engagement with the bearing groove and in which the entrance and bearing grooves will be so arranged as to guard against and prevent an accidental release movement and also providing for paper rolls of varying diameters. To these ends, I provide the side walls with bearing projections and depressions surrounding the same, each projection having an elongated horizontally-disposed bearing-groove located entirely within the wall-projection and having a closed forward end to obstruct or block direct ingress or egress movement of the spindle combined with an entrance groove communicating at one of its ends with the edge of the receptacle and at the other end with said bearing groove at the rear of said closed forward end and preferably between the ends thereof, so as to provide closed opposite ends. In the releasing movement, therefore, the spindle must be first moved into registration with said vertical entrance channel, then moved vertically and then outwardly, thus completely guarding against an accidental releasing movement.

With these and other objects in view, the invention comprises the combination of members and arrangement of parts so combined as to co-act and cooperate with each other in the performance of the functions and the accomplishment of the results herein contemplated, and comprises in one of its adaptations the species or preferred form illustrated in the accompanying drawings, in which:—

Fig. 1 is a front elevation of a receptacle embodying my invention and having mounted therein a roll of toilet paper;

Fig. 2 is a section on the line 2—2 of Fig. 1;

Fig. 3 is a section on the line 3—3 of Fig. 1;

Fig. 4 is a section similar to Fig. 2 with the roll of paper removed; and

Fig. 5 is an enlarged fragmentary section on the line 5—5 of Fig. 4.

Referring now to these drawings, which illustrate a preferred embodiment of my invention, 1 indicates a receptacle or box, made of ceramic material, and preferably of the conventional semi-cylindrical conformation having an open front side, two substantially semi-circular side walls 2—2ª and an arcuate or semi-cylindrical rear-wall 3 joining the semi-circular side walls. The receptacle illustrated is preferably adapted to seat within the wall, so that its outer open front side is flush with the wainscot tiling.

The side walls 2—2ª are provided intermediate the upper and lower edges thereof with elongated horizontally-disposed bearing-grooves 4, each of said grooves preferably having its opposite ends completely obstructed or blocked against movement therethrough of the spindle, access of the spindle thereto or therefrom being procured only through an L-shaped entrance groove 5, a vertical leg 5ª of which communicates with the bearing groove 4 between its ends and a horizontal leg 5ᵇ of which communicates at one end with the vertical leg and at the other end with the edge of the receptacle, so as to provide entrance therethrough of the spindle which is first moved horizontally inward and then dropped downwardly through the vertical portion 5ª of the L-shaped groove 5 into the elongated horizontally disposed

bearing groove 4. Said bearing-groove 4 has closed-end portions 4^a—4^b extending to opposite sides of the communicating groove 5^a, so that when the spindle is inserted therein it may move freely in a horizontal direction within the said groove. Because the opposite ends of said bearing groove are completely closed and obstructed the spindle may have a bearing therein but cannot by direct outward or inward movement be released therefrom, and the spindle will thus be prevented from jumping out of said groove or being accidentally removed by any normal paper-removing pull on the paper roll. It will be obvious that in view of the arrangement and conformation of these entrance and bearing grooves, the roll cannot be removed except by a movement of the spindle to a position between the ends of the bearing groove and thence by positive upward and outward movements.

It will be obvious also that the elongation of the bearing groove permits the use of rolls of paper of varying sizes as the spindle may be positioned in said groove at any point between the opposite ends 4^a—4^b and the spindle may be moved inward or outward to accommodate itself in the groove to the size of the paper roll.

In the preferred form of my invention illustrated, each of the side walls is preferably provided with a reinforced raised bearing-projection 6 which is preferably flush with a bead 7 along the outer edge and with an arcuate depression 8 surrounding the bearing projection 6, the result being that space is provided at opposite sides of the roll within the receptacle to prevent sticking or jamming of the edges or sides of the roll and thus to facilitate the unrolling operation thereof.

Having described my invention, I claim:—

1. A toilet-paper roll-receptacle comprising a container composed of ceramic material open at the front side for the insertion of a paper roll and having enclosing rear and side walls, each side wall having integrally formed a spindle groove comprising an elongated horizontally-disposed bearing-groove and an L-shaped upwardly and outwardly-extending entrance-groove communicating with the outer edge of the receptacle and with the bearing-groove intermediate the ends thereof.

2. A toilet-paper roll-receptacle comprising a container composed of ceramic material, open at the front side for the insertion of a paper roll and having enclosing rear and side walls, each side wall provided intermediate the top and bottom edges thereof with a bearing projection and a depressed arcuate portion surrounding the same, spindle grooves integrally formed in each of said projections, each comprising a horizontally disposed bearing groove closed at its forward end and an upwardly and outwardly disposed entrance-groove communicating at one end with the bearing groove intermediate the ends thereof and at the other end with the side edge of the receptacle.

In witness whereof, I have signed my name to the foregoing specification.

ROY E. JORDAN.