

J. NEDERLAND.
 HOLDER FOR TOILET PAPER ROLLS.
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1,023,587.

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Fig. 1.

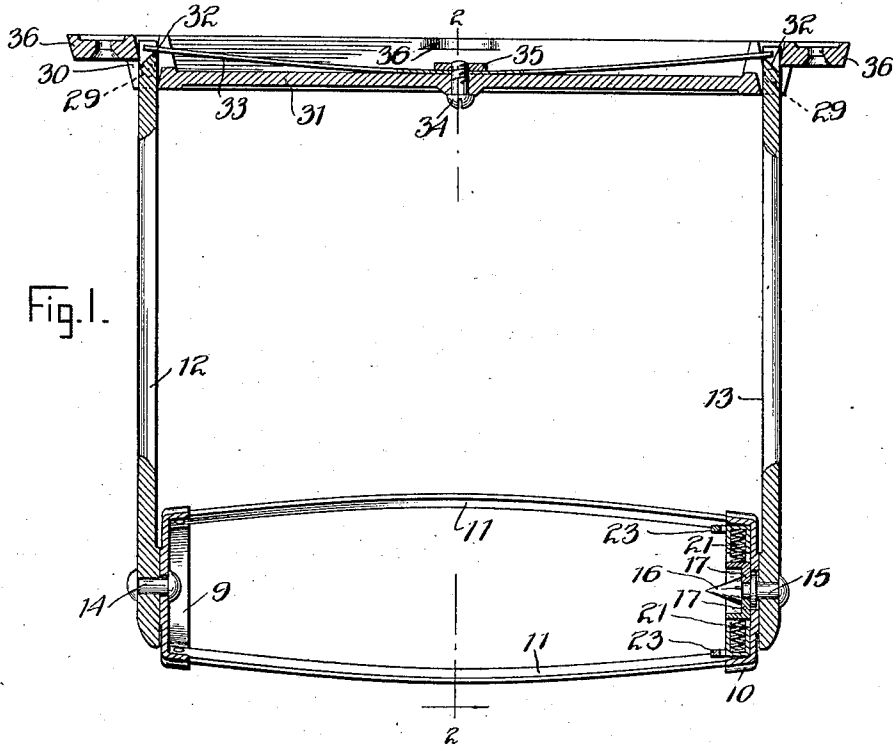


Fig. 2.

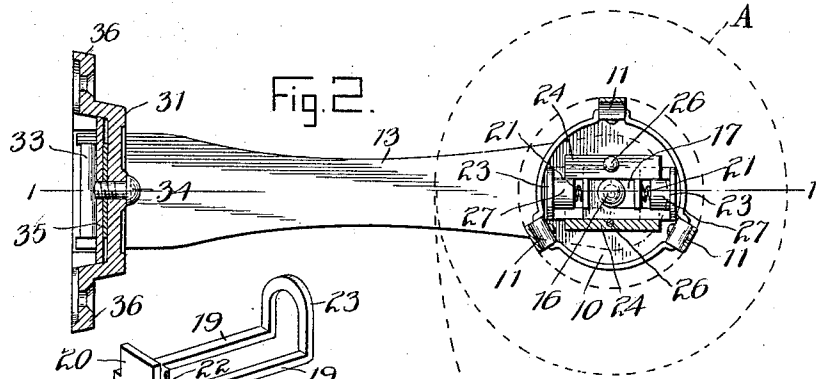


Fig. 3.

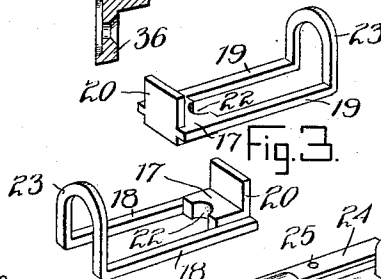
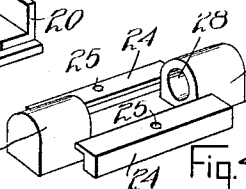


Fig. 4.



WITNESSES

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HOLDER FOR TOILET-PAPER ROLLS.

1,023,587.

Specification of Letters Patent.

Patented Apr. 16, 1912.

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To all whom it may concern:

Be it known that I, JOHAN NEDERLAND, a subject of the Czar of Russia, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Holder for Toilet-Paper Rolls, of which the following is a full, clear, and exact description.

Among the principal objects which the present invention has in view are: to provide a holder of the character mentioned adapted to receive paper rolled on hollow tubes of various interior diameters; to provide a lock for the holder which may be opened only after the paper has been exhausted from said tube; and to provide a holder the supporting brackets whereof automatically spread to dispose the holder in position to receive a renewal roll.

One embodiment of the present invention is disclosed in the accompanying drawings, in which like characters of reference denote corresponding parts in all the views, and in which—

Figure 1 is a horizontal section of a holder constructed and arranged in accordance with the present invention, the section being taken on the line 1—1 in Fig. 2; Fig. 2 is a vertical cross section taken on the line 2—2 in Fig. 1; and Figs. 3 and 4 are detail views in perspective of parts of the lock for the rotary holder.

As shown in the accompanying drawings, the rotary holder comprises the cup disks 9 and 10, to the inside of the flanges of which are riveted or otherwise rigidly secured the spring cross bars 11. The bars 11 are normally bowed outward, as seen in the drawings, to be compressed by the tube on which the roller is usually wound. The expansion of the bars 11 against the inner surface of the winding tubes serves to maintain the said tubes and the paper mounted thereon firmly on the rotary holder.

The rotary holder is supported between the bracket arms 12 and 13. To the arm 12 it is secured by the bearing bolt 14. To the arm 13 it is secured by the bolt 15. Both of said bolts are held rigidly in the arms in which they are mounted. The bolt 15 is provided with a conical spreading head 16 behind the shoulder whereof the plates 17, 17 of the lock normally rest.

The plates 17, as shown best in Fig. 3 of the drawings, are mounted upon the side bars 18, 18 and 19, 19, being integrally formed therewith. The side bars 18 and 19 are provided with the lugs 20, 20 upon which bear the springs 21, 21. The operation of the springs 21 serves to force the edge of the plates 17, 17 together. The edges of the plates 17 are recessed as at 22 to straddle the shank of the bolt 15 behind the head 16. At the end of the bars 18 and 19 opposite that to which is attached the lugs 20 are the arches 23, 23 which serve as finger-holds to move the said arches toward each other and separate thereby the plates 17, 17 to free the same from engagement with the head 16.

The side bars 19 are arranged to rest upon the side bars 18. Both are held within the overhang of the frames 24. The frames 24 are provided with perforations 25 by which the structure is mounted on the disk 10 by scotia pins 26. See Fig. 2 of the drawings. The frames 24 are integrally formed with the housings 27. The housings 27 each have a recess 28 to receive and hold the springs 21, 80 as seen in Fig. 1.

As may be seen, the assembling of the parts herein described is simple and readily effected, the whole being secured by riveting the pins 26 to the back of the disk 10. In operation, when the conical head 16 is forced between the plates 17 the springs 21 bearing against the lugs 20 yield to permit the head 16 to pass between the said plates 17. The springs 21 immediately close the plates 17 upon the shank of the bolt 15 at the rear of the head 16 as soon as the same has passed between the said plates, thus effectually locking the roll of paper and the tube on which the same is wound.

The bracket arms 12 and 13 are each provided with pivot pintles 29 which impinge upon the side of the opening 30 formed in each end of the wall plate 31. The opening 30 is formed of sufficient length to pass the arms 12 and 13, the pintles 29, however, serving to arrest the passage of the said arms. The inner ends of the arms 12 and 13 are each cut away to form the beveled ends 32, the same being outwardly turned to rest against the flat of the ends of the heavy leaf spring 33, serving thereby to lock and steady the arms 12 and 13 in flared

position, separating the end of the holder having the disk 10 from the end of the arm 13 carrying the head 16. The spring 33 is held rigidly to the wall plate 31 by means of a fastening screw 34, the threaded end whereof engages the nut 35. The plate 31 is provided with screw lugs 36 by which the plate is secured in service position.

The operation of a holder constructed and arranged in accordance with the present invention is as follows: The paper is threaded on to the holder, the winding tube thereof compressing the central portion of the bars 11, 11. During this operation it will be remembered the arms 12 and 13 are outwardly flared each from the other, the spring 33 exerting its pressure on the flat of the ends 32 to maintain the arms in said position. The roll A having been disposed in proper position upon the bars 11 the arms 12 and 13 are moved toward each other, the head 16 on the arm 13 entering the opening formed by the recesses 22 between the plates 17 to wedge the said plates apart. The head 16 passes between and above the said plates which are immediately moved by the springs 21 to close behind the said head. It will be noted that in this position the arches 23 are covered by the roll A and the winding tube thereof. Not without considerable difficulty, and not without destruction to the paper roll and the winding tube therefor, can access to the lock be obtained, and the roll of paper is thereby held securely in position. When the paper has been entirely exhausted by partially destroying the winding tube thereof the arches 23, 23 are exposed. The attendant then grasping the said arches between the thumb and first finger compresses the same and the spring 21 thereof, opening the plates 17, 17 until the head 16 and arm 13 connected therewith are free to fly outward from the disk 10. The end of the holder being thus freed the winding tube of the paper roll is removed and the holder or bars 11 are in position to receive a renewal or second supply.

Having thus described my invention, what

I claim as new and desire to secure by Letters Patent is:—

1. In a roll for toilet paper, an expansible roll, embodying a plurality of cup disk ends rigidly connected by resilient bowed arms; a plurality of slidably connected separable latch members having jaws to move each toward the other, supporting brackets for said roll, one of said brackets being pivotally connected with the standing structure and having a pointed head and an annular recess between said head and said bracket, to hold said jaws; and springs to normally close said jaws upon each other.

2. In a holder such as described, a support for a hollow-center roll of paper, comprising a plurality of cup-shaped disks adapted to fill the central opening of said roll, to prevent the insertion of an instrument within said central opening, one of said disks being centrally perforated; a bracket member adapted to be pivotally mounted upon a standing structure having a barbed head projection extended from the inner side of said bracket to rest within said perforation; and a spring jawed latch mounted on the inner side of said perforated disk to engage and hold said barbed head projection.

3. In a holder such as described, a spool having resilient sides to enter the center of a roll of paper and provided with solid cup-disk ends to fill the central opening, said ends forming pivotal bearings for the rotation of said roll, and mounted thereon; and brackets adapted for mounting on a standing structure, pivotally connected with said cup-disk ends, one of said brackets having a barbed ended projection, and a spring-closed latch mounted on one of said ends, at the inner side thereof, to engage said barbed ended projection.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHAN NEDERLAND.

Witnesses:

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JACOB METELITZ.