F. W. CALVERT.

DISPENSING FIXTURE FOR ROLL PAPER.

APPLICATION FILED NOV. 24, 1914.

1,187,705. Patented June 20, 1916.

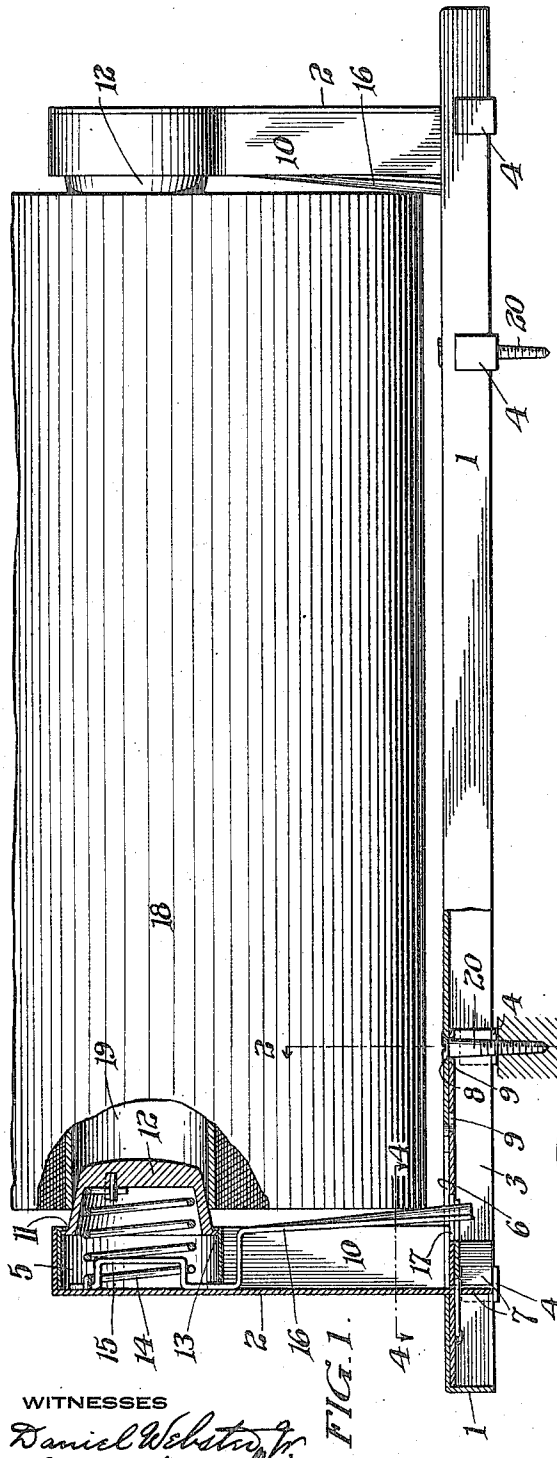

FIG. 1.

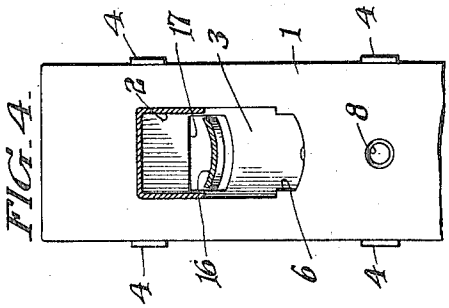

FIG. 4.

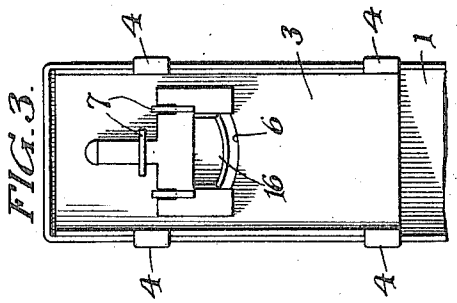

FIG. 3.

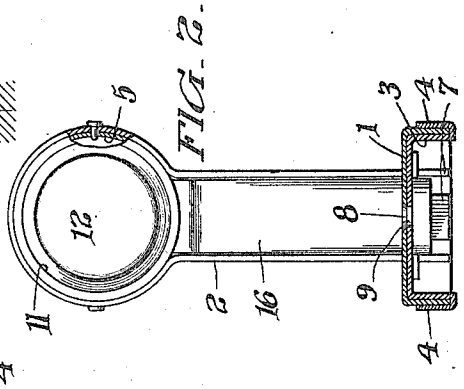

FIG. 2.

WITNESSES

Daniel Webster Jr.

E. W. Smith

INVENTOR

Frank W. Calvert

BY

ATTORNEY

UNITED STATES PATENT OFFICE.

FRANK W. CALVERT, OF NARBERTH, PENNSYLVANIA, ASSIGNOR TO SCOTT PAPER COMPANY, A CORPORATION OF PENNSYLVANIA.

DISPENSING-FIXTURE FOR ROLL-PAPER.

1,187,705. Specification of Letters Patent. Patented June 20, 1916.

Application filed November 24, 1914. Serial No. 873,673.

To all whom it may concern:

Be it known that I, FRANK W. CALVERT, citizen of the United States, and resident of Narberth, county of Montgomery, and State of Pennsylvania, have invented an Improvement in Dispensing-Fixtures for Roll-Paper, of which the following is a specification.

This invention relates to holders for packages of paper toweling or paper for toilet purposes, and has for an object to provide a support wherein the package is free to rotate to deliver the paper in desired quantity as required, while the package is substantially locked in position upon the holder until the supply of paper toweling or the like is exhausted.

It has for a further object to provide a means to prevent a too free dispensing of the paper whereby the quantity delivered to one user is limited to a reasonable amount and the waste therefore reduced to a minimum.

My invention has for a further object to provide a holder of the character stated, which may be adjusted to receive paper packages of different sizes, and further to provide means for locking the supporting members for the package in their adjusted positions.

My invention also comprehends other details of construction which, together with the features above specified, will be better understood by reference to the drawings, in which:

Figure 1 represents a side elevation of a paper holder embodying my invention, certain parts thereof being shown in section for clearness of illustration; Fig. 2 represents a sectional elevation on line 2—2 of Fig. 1, the package being removed; Fig. 3 represents a bottom plan of one end of the holder; Fig. 4 represents a section on line 4—4 of Fig. 1.

Similar numerals of reference indicate like parts in the various figures of the drawing.

1 designates a base member, preferably of sheet metal, pressed into substantially U-form such as shown in section in Fig. 2, and forming a support for a pair of standards 2 which carry the paper supporting adjuncts of the device, as will hereinafter be apparent. In view of the fact that the standards and their component parts are in the present instance duplicates of each other, the description will be confined to but one standard.

3 designates a suitable member mounted for sliding movement adjacent an end of the base 1 and preferably conforming in shape to the bottom surface of the latter and suitably guided by the lugs 4 located at each side of the base. The standard 2 is also preferably of pressed metal open at one side and having its upper end enlarged and substantially circular in form for the purpose of receiving a retaining collar 5. Its lower end passes through an opening 6 in the base and terminates in suitable tongues 7 which are made fast to the member 3 in any desired manner. It will be noted that the opening 6 is of sufficient size to permit the standard to move with the member 3 longitudinally of the base within certain limits to produce the desired result.

8 designates an aperture through the base member 1, positioned for alinement with any one of the openings 9 in the member 3 according to the location of the slidable member 3. It will thus be seen, when the base member is fixed in position upon a suitable support by passing a screw 20 or like fastening device through the openings 8 and 9, that not only will the base member be fixed in position but also the slidable member 3 with its standard will be locked in its adjusted position.

The standard 2, as will be apparent, has an integral flange 10 laterally disposed to form an enveloping wall bounding the sides of the standard in order to inclose the package holding adjuncts and prevent improper tampering therewith.

The collar 5, as shown, is of circular configuration and has its outer edge crimped as shown at 11 to form an annular opening through which the package holding follower 12 projects. This follower is preferably of sheet metal of truncated form, having an inner open end, the circumferential bounding wall of which is outwardly flanged as shown at 13 so as to seat in the rear of the crimped edge 11 and thus prevent the follower from becoming outwardly displaced.

14 designates a spring of the compression type seated within both the collar and the follower, so that one end bears against the follower while its opposite end seats upon a U-shaped, off-set 15 of a lever arm 16. This

lever arm 16 projects through the open side of the standard and traverses the opening 6 of the base where it terminates in a suitable slot 17 of the slidable member 3.

It will be understood that the collar 5 is suitably cut away at a portion of its rear side to permit the free passage of the lever arm 16. This arrangement thereby provides a double function for the spring 14, namely, to maintain the follower outwardly pressed to its operative position, and to hold the lever arm 16 outwardly pressed to engage the sides of the package 18. This latter function causes the lever to act as a brake or friction member in contact with the side face of the paper package, the tension of the spring 14 being sufficient to prevent the roll of paper from spinning about its bearings, but of course being insufficient to prevent free removal of the paper in the desired manner. This construction provides a means, therefore, to prevent waste of the paper and to limit the number of sheets which may be torn off. It will further be noted that since the lever arm 16 passes through the opening 6 and opening 17 it cannot be manipulated, when the package is in position, to remove the package before it is completely used, though it will be understood that the openings referred to are sufficiently large to afford proper clearance to permit free operative movement of the said arm.

In mounting the paper upon the standards the latter are first adjusted in proper spaced relation to receive the package, this being done by sliding the members 3 to the proper positions and bringing the required openings 9 respectively into alinement with the base apertures 8. The fastening device is then passed through the alined openings and into a suitable support to mount the fixture in operative position. The manner of mounting the paper package should be obvious as it is only necessary to press the followers back so that the package may be placed between the standards when the followers automatically are projected into the respective ends of the package supporting tube 19, as will be apparent.

The device in its preferred form is particularly adapted for the distribution of paper towels, and the tension of the springs is so adjusted that the package may move freely to permit the removal of one or two sheets of the toweling to each user. Furthermore, the holder is composed of few parts, which are simple in construction and may be readily assembled as a complete unitary structure for the purpose intended.

It will now be apparent that I have devised a novel and useful construction which embodies the features of advantage enumerated as desirable in the statement of the invention and the above description, and while I have in the present instance shown and described the preferred embodiment thereof which has been found in practice to give satisfactory and reliable results, it is to be understood that the same is susceptible of modification in various particulars without departing from the spirit of the invention, or sacrificing any of its advantages.

Having now described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. In a device of the character stated, a base, a pair of standards mounted thereon, means carried by one of said standards for supporting one end of a paper package, a follower movably carried by the opposite standard for supporting the other end of said package, a friction means independent of the follower for applying friction to the end of the paper roll to retard its rotation, and a spring having one end pressing upon the follower to hold it normally in position for supporting the paper and having its other end pressing upon the friction means for yieldingly pressing it into contact with the paper.

2. In a device of the character stated, a base, a pair of standards mounted thereon, means carried by one of said standards for supporting one end of a paper package, a follower movably carried by the opposite standard for supporting the other end of said package, a lever fulcrumed upon the standard having the movably supported follower, said lever wholly independent of the follower and having a long end for contacting with the paper, and a spring common to both the follower and the lever and arranged to apply pressure upon said parts independently of each other.

3. In a device of the character stated, a base, a pair of standards mounted thereon, means carried by one of the standards for supporting one end of a paper package, a follower movably carried by the opposite standard for supporting the other end of said package, a lever fulcrumed upon said latter standard and having one end arranged in opposed relation to said follower and the other end adjacent the side of said package, and a spring interposed between said lever and said follower whereby said follower is maintained in operative position and said lever frictionally engages said package.

4. In a device of the character stated, a base having an opening therein, a pair of standards mounted on said base, means carried by one of said standards for supporting one end of a paper package, a follower movably carried by the opposite standard for supporting the other end of said package, a spring normally holding said follower in operative position, and a lever controlled by said spring for frictionally engaging said package to retard the unwinding movement

thereof, said lever having one end seated in said base opening to form a lock to prevent removal of said package.

5. In a device of the character stated, a base, a pair of standards mounted thereon for relative movement whereby they may be relatively adjusted toward or away from each other to vary the opening between said standards, a follower movably carried by each standard for supporting a paper roll between said standards, springs normally holding the respective followers in operative position, means controlled by each spring for frictionally engaging the paper roll to retard the unwinding movement thereof, and means for maintaining the standards in their relatively adjusted positions.

6. In a device of the character stated, a base, a pair of standards mounted thereon, a follower movably carried by each standard for supporting a paper package between said standards, springs normally holding the respective followers in operative position, and a plurality of levers independently controlled by the respective springs for frictionally engaging said package to retard the unwinding movement thereof.

7. In a device of the character stated, a base, a pair of standards mounted thereon, one of said standards being adjustable with respect to the other to vary the opening between said standards, means carried by one of said standards for supporting one end of a paper roll, a follower movably carried by the opposite standard for supporting the other end of said paper roll, a spring normally holding said follower in operative position, means controlled by said spring for frictionally engaging said paper roll to retard the unwinding movement thereof, and means for locking said adjustable standard in its adjusted position.

8. In a device of the character stated, a base, a pair of standards adjustably mounted thereon for movement toward or away from each other to vary the opening between said standards, a follower movably carried by each standard for supporting a paper roll between said standards, springs normally holding the respective followers in operative position, means controlled by each spring for frictionally engaging said paper roll to retard the unwinding movement thereof, and means for respectively locking each standard in adjusted position.

9. In a device of the character stated, a base having an opening adjacent each end for a suitable fastening device, a pair of slidable members guided by said base and each having a plurality of openings therein adapted for alinement with the respective base openings, a standard carried by each slidable member, a follower movably carried by each standard for supporting a paper package between said standards, springs normally holding the respective followers in operative position, and means adapted to pass through the respective base openings and the alined openings of the slidable members for securing said base in fixed position and locking said members in adjusted position.

In testimony of which invention, I hereunto set my hand.

FRANK W. CALVERT.

Witnesses:
P. D. PARSONS,
F. R. WESSELS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."