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G. M. RUST & E. J. FAULKNER.

TOILET PAPER HOLDER AND CUTTER.

(Application filed Dec. 16, 1901.)

(No Model.)

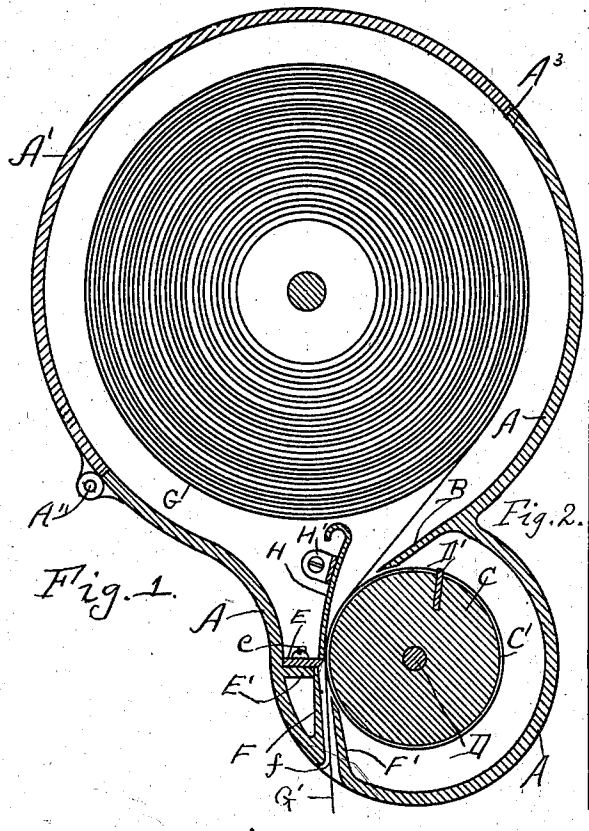


Fig. 1.

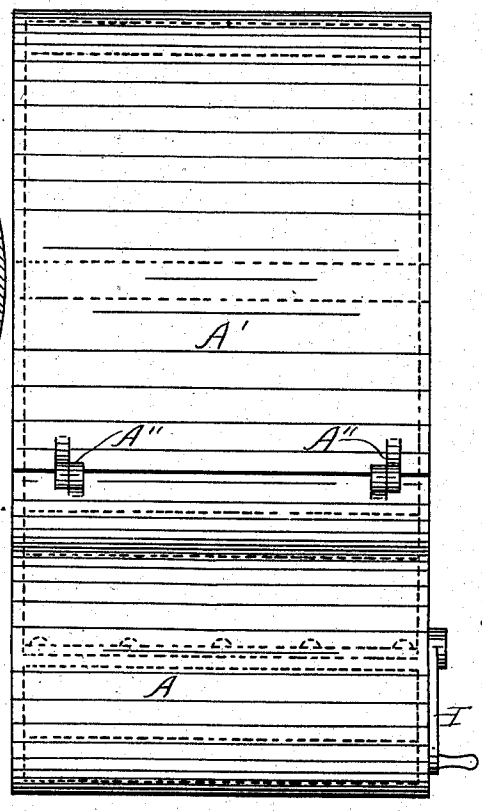


Fig. 2.

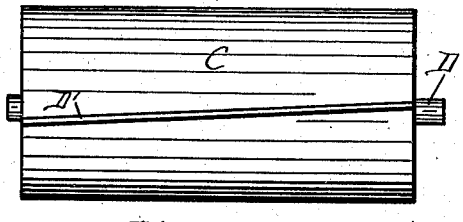


Fig. 3.

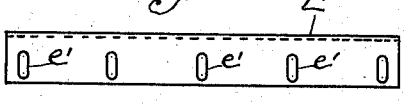


Fig. 4.

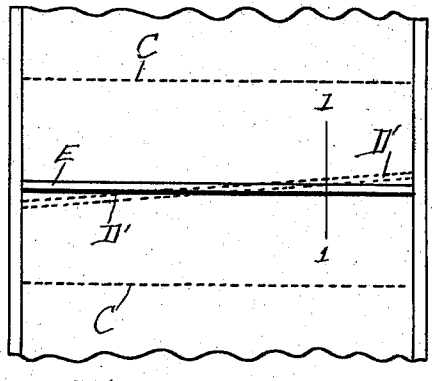


Fig. 5.

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TOILET-PAPER HOLDER AND CUTTER.

SPECIFICATION forming part of Letters Patent No. 716,938, dated December 30, 1902.

Application filed December 16, 1901. Serial No. 86,070. (No model.)

To all whom it may concern:

Be it known that we, GEORGE M. RUST and EDWARD J. FAULKNER, citizens of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Toilet-Paper Holders and Cutters; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Our invention relates to new and useful improvements in toilet-paper holders and cutters and possesses the novel features hereinafter specified and claimed.

The object of the invention is to provide a device of the above description which is simple and efficient as well as inexpensive. To these ends we employ a single feed-roller and means combined therewith for cutting from a continuous roll of paper upon each complete rotation of said single-feed roller.

Preceding a detail description of our invention reference is made to the accompanying drawings, of which—

Figure 1 is a longitudinal sectional elevation. Fig. 2 is a front elevation. Fig. 3 is a detail elevation of the feed-roller, showing the oblique position of the movable cutting-blade. Fig. 4 is a detached view of the adjustable stationary cutting-blade. Fig. 5 is a diagram showing the manner of feeding and cutting the paper from the roll.

The inclosing case A is constructed of metal, preferably of suitable design and capacity to properly inclose the various devices or mechanisms substantially as shown in Fig. 1. A front door or lid A′ is hinged thereto at A″ and is secured in any suitable manner at A^3. On the interior of the casing there is a throat or guide-piece B and a transverse ledge E′, also upright walls F and F′, the latter forming an opening *f* in the bottom of the casing, through which the end G′ of the paper is fed as said paper is unwound from the roll G. The latter roll is mounted in the most spacious part of the casing, and in placing each roll of paper therein the throat or guiding-wall B serves to properly direct the unwinding end G′ of said roll.

C designates a feed-roller having a suitable diameter to feed a proper length of paper in one rotation thereof. The journals D are suitably mounted in the lower portion of the casing, so as to bring the circumference of said roller in suitable relative position with the walls B and F′, so that the end of the paper as it is being withdrawn from the roll B cannot enter between the feeding-roller C and said walls B and F′.

The circumference of the feeding-roller C is covered by sandpaper C′ or any other suitable material that will impart to said roller a rough surface in order that it may properly engage the paper while said roller is being rotated. D′ designates a cutting-blade which is mounted in the periphery of said roller and which is therefore movable. As shown in Fig. 3, this cutting-blade D′ is essentially on an angle to the axis of said roller and extends from end to end thereof. In the employment of a single-feed roller it is essential that the paper be cut obliquely in order that the feed-roller may have an opportunity to feed the paper while it is being cut. The diagram shown in Fig. 5 represents, or rather illustrates, the simultaneous feeding and cutting operation. The dotted lines on the left of the line 1 1 represent the portion of the paper that is cut, and the dotted lines on the right of the line 1 1 represent the portion of the paper that is engaged by the feeding-roller to advance it to the cutting edges D′ and E.

E designates a stationary cutting-blade, which coöperates with the blade D′ to sever the paper. This stationary blade E is adjustably mounted on the ledge E′, being adjustable by means of the oblong opening *e′* therein, through which fastening-screws *e* pass.

H designates a spring-plate which extends across in front of the feed-roller C and has its end attached to brackets H′ on opposite sides of the casing. The lower or free end of this plate H rests in suitable contact with the periphery of the feeding-roller C, and the extreme free end of said plate abuts with the upper side of the stationary cutting-blade E, adjacent to the cutting edge thereof. This pressure-plate H makes suitable contact

with a substantial portion of the periphery of the feeding-roller C to hold the free end of the paper in proper contact with the feeding-roller, and the free end of said plate engaging as it does with the cutting edge of the stationary blade E prevents any buckling of said paper as it is fed past or to said cutting-blade.

The feeding-roller C is rotated by a crank-handle I.

Having described our invention, we desire to claim—

1. In a toilet-paper holder and cutter, the combination with an inclosing case having a roll of paper mounted therein, of a paper-feeding roller, a cutting-blade mounted longitudinally on the surface of said feeding-roller in a plane oblique to the axis of said roller, a stationary cutting-blade mounted in a position parallel with the axis of said feeding-roller and adapted to coöperate with the oblique cutting-blade to cut the paper from said roll, and a pressure-plate to press the paper in contact with said feeding-roller adjacent to the stationary cutting-blade, substantially as set forth.

2. In a toilet-paper holder and cutter, the combination with an inclosing case having interior guide-walls, of a feeding-roller mounted in said casing and projected into the space between the upper and lower guide-walls, a cutting-blade mounted longitudinally on the surface of said feeding-roller in a plane oblique to the axis of said roller, an adjustable stationary cutting-blade mounted in the front of said feeding-roller with its cutting edge in proximity to said oblique cutting-blade, a pressure-plate mounted in front of said feeding-roller, said pressure-plate and the upper interior guide-walls providing a passage for the free end of a roll of paper to said feeding-roller, said pressure-plate bearing against the feeding-roller adjacent to the stationary cutting-blade, substantially as set forth.

3. In a toilet-paper holder and cutter, the combination with an inclosing case having a roll of paper mounted therein, of a feeding-roller, a cutting-blade mounted longitudinally on the surface of said feeding-roller in a plane oblique to the axis of said roller, a pressure-plate adjacent to the periphery of said feeding-roller and serving to press the free end of the paper in proper contact with said feeding-roller, an adjustable stationary cutting-blade mounted in a position parallel with the axis of the feeding-roller and abutting with said pressure-plate whereby means are provided for obliquely cutting the paper from said roll and for feeding said paper during the operation of cutting the same, substantially as set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

GEORGE M. RUST.
EDWARD J. FAULKNER.

Witnesses:
JOHN W. KALBFUS,
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