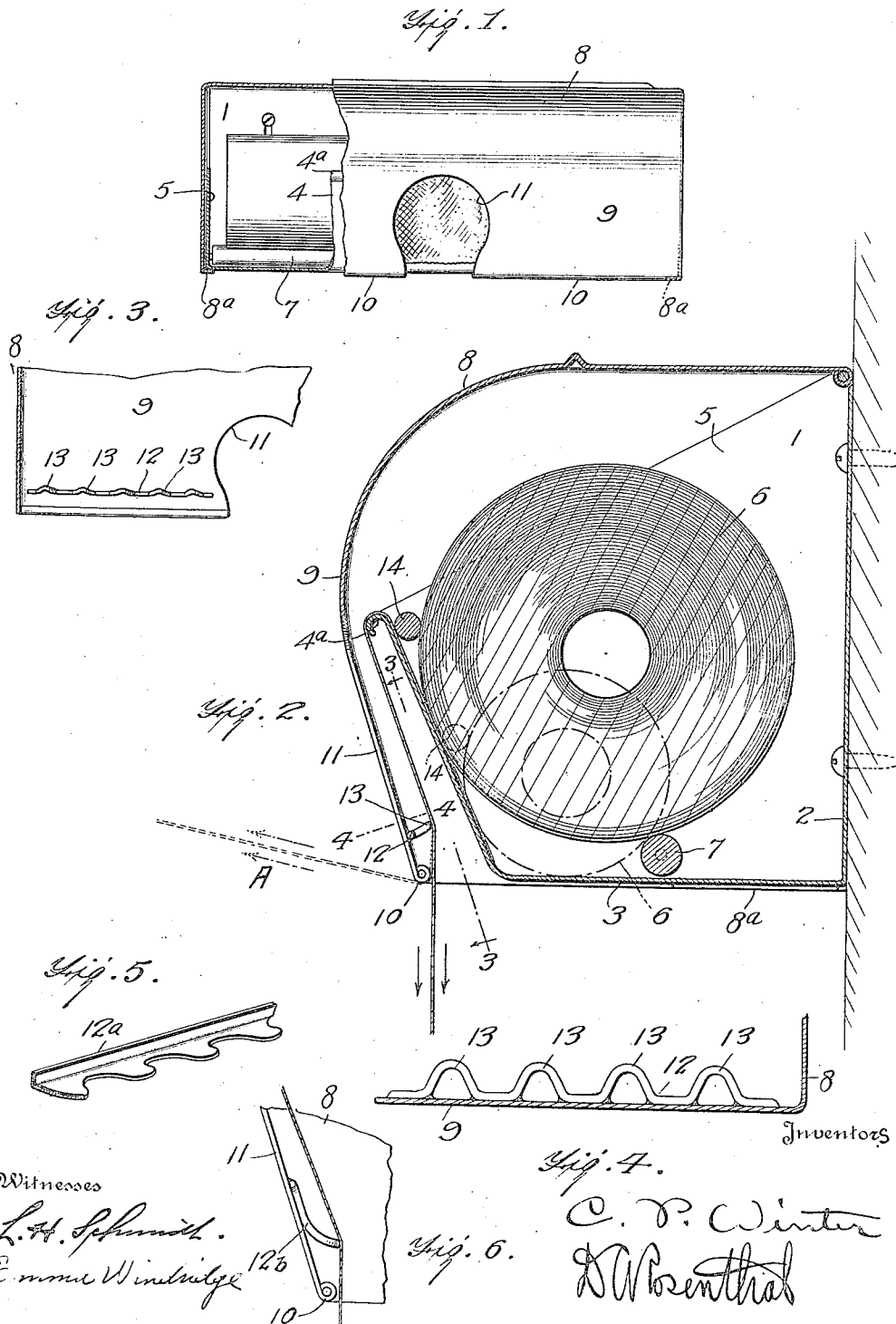


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PAPER TOWEL HOLDER.
APPLICATION FILED DEC. 11, 1913.

1,122,673.

Patented Dec. 29, 1914.



UNITED STATES PATENT OFFICE.

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PAPER-TOWEL HOLDER.

1,122,673.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, COURTNEY P. WINTER and DUNBAR A. ROSENTHAL, citizens of the United States, residing at Washington, District of Columbia, have invented certain new and useful Improvements in Paper-Towel Holders, of which the following is a specification.

Our present invention relates to that particular class of towel holders for dispensing single towel lengths from a roll of absorbent paper which is perforated in the usual manner; and the invention consists in certain novel constructions and combinations of parts as will be hereinafter described and claimed.

In the accompanying drawing Figure 1, is a front view of the towel holder partly broken away. Fig. 2, is a central section thereof. Fig. 3, is a section on line 3—3 of Fig. 2. Fig. 4, is a section on the line 4—4 of Fig. 2. Fig. 5, is a detailed perspective view of a modified form of toothed member. Fig. 6, is a detail view of a modified form of severing strip.

The body 1, of our improved towel holder is preferably constructed of sheet metal and consists of the rear plate 2, bottom 3, front 4, and end plates 5. The front plate 4, is extended upward and outward from the bottom plate 3, and in a straight line. The upper edge 4^a, of the plate 4, terminates in a rounded bead, for the purpose of presenting a smooth surface to the paper toweling as it is unwound from the roll 6, which is freely disposed within the body. A roller 7, is journaled to the side plates 5, and extends along the length of the body or container 1. The roller 7, is located in the approximate center of the bottom plate 3, for the purpose of receiving the weight of the roll 6, thereby reducing friction to a minimum.

The hood or cover 8, is preferably constructed of sheet metal and hinged to the upper edge of the rear plate 2, of the body 1, in the usual manner. The front plate 9, of the cover 8, is extended downwardly and inwardly in front of and spaced from the body front and terminates in a coiled or rounded lower edge, 10, substantially in the plane of the body base, the free edge of the toweling feeding downwardly in the space between the body front and cover thus formed. A circular cut-out portion 11, is

provided in the front plate 9, and opens through the lower edge thereof to permit inserting the fingers for grasping the free edge of the paper web or toweling. The cover 8, is provided with suitable end plates which overlap the body portion of the device. The lower edge of the end plates are bent inwardly at right angles as shown at 8^a, securely holding the cover when in its lowered position. The end plates 8, are constructed of a resilient material and may be sufficiently deflected to permit the locking and unlocking of the lower edges thereof.

An important feature of our invention is the provision of toothed edges or severing strips on the inner side of the front plate 9 of the cover, which strips are located near the lower edge of the said plate 9, for the purpose of effectively severing the web at each line of perforations and preventing the withdrawal of more than one towel at a time. The toothed members or severing strips 12, are preferably constructed of wire and are provided with a plurality of loops 13, which are formed from the body of the wire. A member thus formed is secured to the plate 9, on each side of the opening 11, preferably by soldering, as shown in Fig. 4.

A metallic roller 14, the approximate length of the roll 6, is placed in the body 1, as illustrated in Fig. 2, and caused to rotate by the unwinding of the roll. The purpose of the weighted bar or roller 14, is to prevent the paper toweling from buckling at the opening 11, and also to eliminate any possibility of the free end of the toweling being drawn back into the container.

In the usual construction of towel holders of this type, it has been comparatively simple to withdraw as many towels as was desired, which resulted in a great waste. In order to obviate this and other defects, we have with other novel features, relatively inclined the front 9, of the cover and the front 4, of the body portion in such a degree that the upper edge of the latter lies in a vertical plane in advance of the vertical plane of the lower edge of the former, thus causing the toweling to assume an acute angle as it is withdrawn.

The dotted position A, in Fig. 2, shows an extreme position the toweling may assume in being withdrawn from the holder, and yet be free from buckling, due to the rounded edge 10, and the roller 14.

In Fig. 5, a modified form of toothed member is shown constructed of sheet metal. The upturned portion 12^a, is secured to the plate 9, in any desirable manner and the teeth may be substantially of the same contour as in the preferred form.

The body of the holder and its cover constitute a casing and by virtue of the cover at its front overhanging the body there is provided an opening through which the web may be drawn. Arranged in the space or opening between the overhanging cover and the body and through which space or opening the web is drawn from the holder there is provided means to effect a separation of the web along the lines of the perforations so that towels of definite length may be taken one at a time from the holder.

Although we have described the embodiment of our invention, we may desire to make such changes in the construction, combination, and arrangement of parts thereof as do not depart from the spirit of the invention, and the scope of the appended claims.

We claim:

1. A towel holder of the class described, consisting of a body portion having a rear plate for attachment to a suitable support, a flat bottom, an upwardly and forwardly inclined straight front terminating in an upper forward beaded edge, and end plates, a roller extending transversely across the lower portion of the body and having its ends journaled in said end plates to receive a paper roll thereon, a weighted roller freely disposed within the body between the paper roll and the inclined front, a cover adapted to overlap the said body portion having a flat top, the rear edge of which is hingedly connected to the upper edge of the rear body plate, downwardly and rearwardly inclined front having its lower edge beaded and terminating in the same horizontal plane with the body base and having a cut-out portion opening through its said edge, said cover being provided with cover end plates having ears, projecting inwardly from the rear lower edges thereof, a series of rounded and inwardly projecting teeth secured to the inner side of the cover near the lower edge thereof, the said teeth extending approximately midway in the space between the front plate of the body portion and the front plate of the cover, when the said cover is lowered to its closed position, substantially as and for the purpose described.

2. A towel holder of the class described consisting of a body portion, a roller journaled and extending transversely across the lower portion of the body to receive a paper roll thereon, a weighted roller freely disposed within the body and bearing against the paper roll, a cover adapted to overlap

the said body portion, and a series of rounded and inwardly projecting teeth secured to the inner side of the cover near the lower edge thereof, substantially as described.

3. In a towel holder of the class described, a body portion, a roller journaled across the lower portion of the body, a cover adapted to overlap the said body portion, a downwardly and rearwardly inclined front, having a lower beaded edge, a series of rounded and inwardly projecting teeth secured to the inner side of the cover near the lower edge thereof, the said teeth extending approximately midway in the space between the body portion and the front plate of the cover, substantially as described.

4. In the combination of a towel holder, of the class described, a body portion, a front plate integral with the body portion, a roller journaled within said body portion, a cover, a front plate integral with the cover, and a series of rounded and inwardly projecting teeth secured to the inner side of the cover near the lower edge thereof, the said teeth extended in the space between the front plate of the cover, substantially as and for the purpose described.

5. In the combination with a body portion, a roller journaled thereon, a cover hinged to said body portion, and rounded teeth secured to the inner side of the cover near the lower edge thereof, substantially as described.

6. The combination of a casing including a body and a cover, the latter having its front overhanging the front of the body in spaced relation thereto forming an opening, said casing adapted to contain a roll of toweling material which may be drawn therefrom in web form through said opening and which is perforated at intervals to divide the material into sheets of definite length, and a plurality of rigid fingers arranged in the path of movement of the web to effect disconnection of one sheet at a time along the lines of perforations as the web is drawn through said opening.

7. The combination of a casing including a body and a cover, the latter having its front overhanging the front of the body in spaced relation thereto forming an opening, said casing adapted to contain a roll of toweling material which may be drawn in web form through said opening and which is perforated at intervals to divide the material into sheets of definite length, and a plurality of rigid fingers rigidly mounted between the cover and the body to engage the perforations of the web and thereby effect a disconnection of one sheet at a time from the web as the latter is drawn through said opening.

8. The combination of a casing provided with an opening, said casing adapted to contain a roll of toweling material adapted to

be drawn in web form through the opening of the casing and having lines of perforations which divide it into sheets of definite length, and a plurality of fingers concealed within the casing to engage in the lines of perforations to disconnect one sheet of toweling at a time from the web as the web is drawn from the casing.

9. The combination of a case adapted to receive a roll of toweling material which is perforated transversely at intervals to divide the same into sheets of definite length, said case provided with an opening through which said toweling material may be drawn in web form, and spaced sets of fingers to engage in the lines of perforations to disconnect one sheet at a time from the web as the web is drawn from the case.

10. The combination of a case adapted to receive a roll of toweling material which is perforated transversely at intervals to divide the same into sheets of definite length, said case provided with an opening through which said toweling material may be drawn in web form, and means confined within said opening and concealed within the case to operate on the perforations to disconnect one sheet at a time from the web as it is drawn through said opening.

11. The combination of a case adapted to receive a roll of toweling material, said casing being provided with an opening through which said toweling material may be drawn in web form, and a plurality of fingers confined within said opening and concealed within the case to operate on the web of

toweling material as it is drawn through said opening and effect a disconnection of sheets of material from the web.

12. The combination of a case including a body and a cover, the latter having its front overhanging the front of the body to form an opening, spaced rollers mounted in the case, said case adapted to contain a roll of toweling material engageable with said rollers and adapted to be drawn in web form through said opening and perforated at intervals to divide the material into sheets of definite length, and sets of fingers arranged between the overhanging front of the cover and the body to engage the perforations and effect disconnection of one sheet at a time as the web is drawn through said opening.

13. The combination of a case including a body and a cover, the latter having its front overhanging the front of the body to form an opening, said case adapted to contain a roll of toweling material adapted to be drawn in web form through said opening and perforated at intervals to divide the material into sheets of definite length, and means in said opening to operate on the perforations and disconnect one sheet at a time from the web as it is drawn through said opening.

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

C. P. WINTER.

D. A. ROSENTHAL.

Witnesses:

HENRY C. FINKEL,
FERDINAND PETIT.