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PAPER MOISTENER

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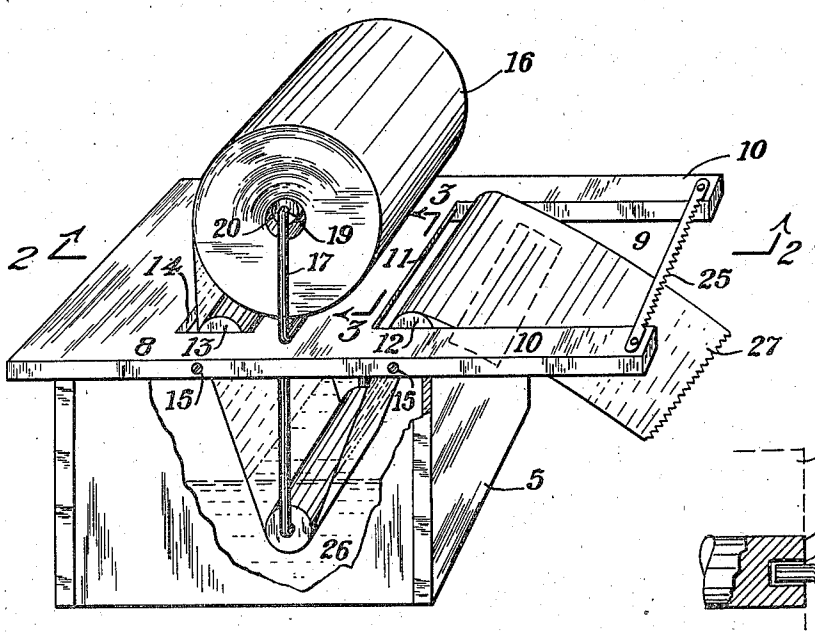

Fig. 1

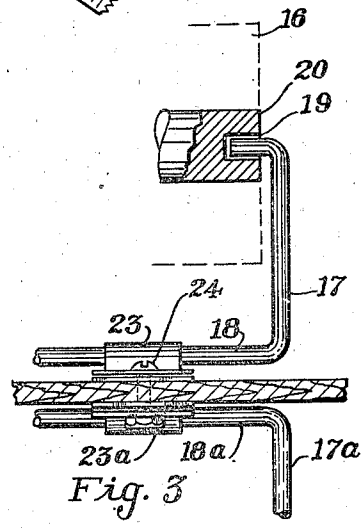

Fig. 3

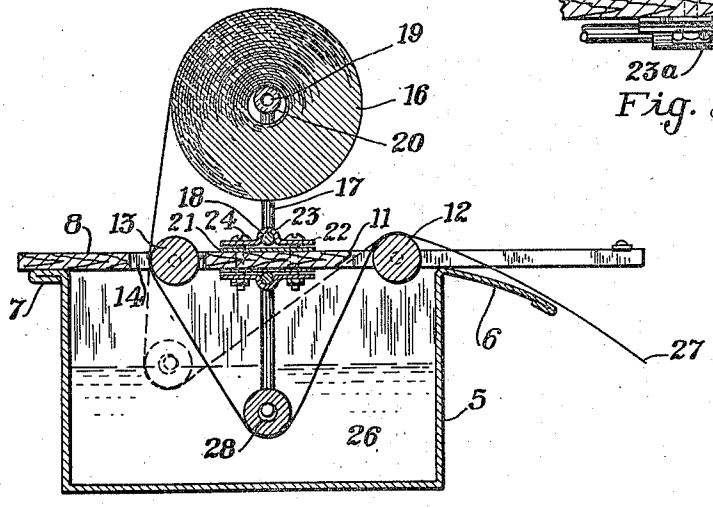

Fig. 2

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PAPER MOISTENER

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4 Claims. (Cl. 91—14)

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This invention relates to improvements in paper moisteners and has reference more particularly to a mechanism for dispensing and moistening toilet paper.

For purpose of cleanliness and sanitation, toilet paper, instead of being used dry, as is customary, should be moistened with an antiseptic solution that, preferably, also has deodorant properties.

It is the object of this invention to produce a device for dispensing toilet paper which shall be of such construction that the paper, as it is fed from the roll, will first pass through an antiseptic liquid.

Another object of this invention is to produce a device of the class described in which the parts can be adjusted so as to vary the time during which the paper is in contact with the liquid.

A further object of the invention is to produce a device in which means is provided for severing the paper in any desired lengths.

A further object of the invention is to produce a device in which the means for varying the time of immersion is held in any desired position by means of a friction device.

And a further object of the invention is to produce a device in which means is provided for holding the end of the paper in a readily accessible position.

The above and other objects that may become apparent as this description proceeds are attained by means of a construction and an arrangement of parts that will now be described in detail and for this purpose reference will be had to the accompanying drawing in which the invention has been illustrated in its preferred form, and in which:

Figure 1 is a perspective view, partly broken away, showing the relative position of the elements;

Figure 2 is a section taken on vertical plane 2—2, Figure 1; and

Figure 3 is a fragmentary section taken along line 3—3, Figure 1.

In the drawing reference numeral 5 designates a tank having four vertical sides and a bottom. One of the end walls has been shown as bent outwardly as indicated at 6 to provide an inclined supporting surface. The upper edges of the other walls may be doubled upon themselves as indicated at 7. Supported on the tank is a board-like member 8 which may be formed of wood, metal or any other suitable material, but which, for the purpose of explanation, will be considered as formed from wood. Member 8 will

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be referred to hereinafter as a cover. The cover has a notch 9 bounded on both sides by means of fingers 10. The base or bottom of the notch is the edge 11. A roller 12 is positioned between the inner walls of fingers 10 and is pivotally attached to the latter. Spaced rearwardly or to the left as shown in Figure 1 is another roller which has been designated by reference numeral 13. This is positioned in a transverse slot 14 and mounted for rotation about pivots 15. Secured to the top of the cover, preferably to the space between slot 14 and notch 9, is a bracket for supporting a roll of toilet paper. The toilet paper roll has been designated by reference numeral 16. The bracket has upwardly extending arms 17 that are formed from the ends of the base member 18, as shown in Figure 3. The upper ends of the arms 17 are curved inwardly as indicated at 19 and support a roller 20 that extends through the central opening in the roll. The bracket comprising parts 17, 18 and 19 is secured to the cover by any suitable means, but in the drawing the supporting member or base has been illustrated as composed of a bottom 21 and a top plate 22. The last mentioned plate has an upwardly curved portion 23 in which part 18 is positioned. The base just described is secured to the cover by means of bolts 24. Another and similar bracket is secured to the under surface of the cover by a similar means and the parts have been given similar reference characters distinguished from the above by adding thereto the letter "a." Extending across the notch 9, near the outer ends of fingers 10, is a serrated blade 25 which may be formed from a scroll saw blade or some similar article.

Reference numeral 26 represents a liquid which may have antiseptic properties and also deodorant properties, such, for example, as a liquid that has been chlorinated.

Let us now assume that the parts are assembled in the manner shown in Figures 1 and 2 and that the prospective user grasps the free end of the paper at 27 and exerts a tension thereon. The paper will move in response to this tension, passing downwardly from the roll 16 through slot 14, underneath roller 28, then upwardly over roller 12, as shown in the drawing. When a sufficient length of paper has been withdrawn, it is moved upwardly against the serrated edge of the blade 25 and severed. The moist paper that projects beyond roller 12 will fall down onto and rest on the surface of projecting member 6.

The paper best suited for use in connection with this apparatus is of the type usually referred to as

"crepe" paper although other kinds of paper may be used.

The parts are so constructed that many of them are available on the market, as, for example, the brackets that hold the roll 16 and the roller 28 and this simplifies the manufacture and reduces the cost of the article.

Attention in particular is directed to the fact that the parts designated by reference numerals 21 and 22 may be replaced by other equivalent elements as the present construction of these parts has been selected for the purpose of illustration.

The apparatus that has been described above can be attached to suitable brackets on the wall of a bathroom and used in the conventional manner.

Having described the invention what is claimed as new is:

1. A paper strip moistener comprising, a tank, a cover therefor, the cover having a slot extending transversely thereof, a bracket secured to the under side of the cover, a roller carried by the lower end of the bracket with its axis parallel with the slot, one end of the cover having a notch, a cutter blade extending across the notch near the outer end thereof, a roller mounted for rotation in the notch near the bottom thereof, a bracket projecting from the upper surface of the cover, for supporting a roll of paper with its axis parallel to the slot, the paper passing from the roll downwardly through the slot, thence underneath the roller in the tank, thence upwardly and over the roller in the notch, thence downwardly through the notch to a point below the blade.

2. A device in accordance with claim 1 in which there is an outwardly and downwardly projecting support for the paper near the inner end of the notch.

3. A device in accordance with claim 1 in which the downwardly extending bracket is mounted for pivotal adjustment about an axis positioned closely adjacent the underside of the cover and parallel with the slot.

4. An assembly adapted to be supported on the top of a tank to form a removable cover therefor, comprising a board-like member of greater length than the tank, having one end provided with projecting fingers spaced to form a notch, a cutter blade extending across the notch near the outer end thereof and secured to the ends of the fingers, the outer edge of the blade being serrated, that part of the board that forms the closure for the tank having a transversely extending slot spaced from the bottom of the notch, a paper roll supporting bracket secured to and extending upwardly from the cover, between the slot and the notch, a roller positioned between the fingers near the bottom of the notch, a bracket secured to and projecting downwardly from the under side of the board, a roller carried by the last named bracket for rotation about an axis parallel with the slot, the paper from the roll passing downwardly through the slot, thence underneath the roller, thence upwardly through the notch, thence over the roller in the notch and thence downwardly to a point below the cutter blade.

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