May 19, 1931. H. R. WILLIAMS 1,806,273

PAPER MANUFACTURE

Filed April 3, 1929

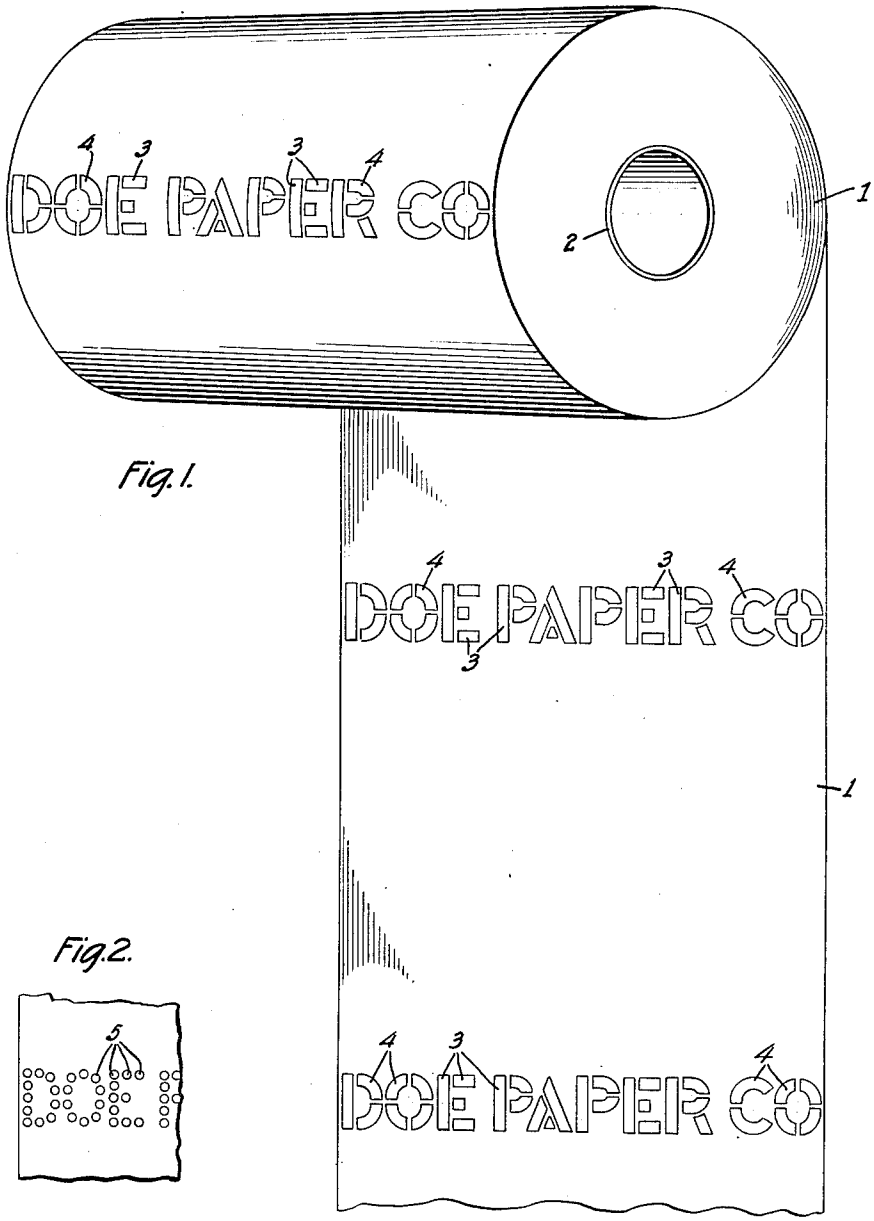


Fig. 1.

Fig. 2.

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UNITED STATES PATENT OFFICE

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PAPER MANUFACTURE

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This invention relates to the manufacture of paper products such as those employed for towels and other toilet purposes.

The object of the invention is the provision of novel methods of perforating a paper strip in order that it may be readily separated into individual sections.

Paper products of this class are frequently supplied in lengthy rolls, which are transversely perforated at regular intervals in order that the strip may be easily separated into sections of uniform length. These perforations customarily consist of a series of annular holes or straight slits symmetrically formed and disposed and extending transversely of the strip, the spacing of such perforations being close enough to insure that the paper will tear along the line thereof.

The texture of paper employed for towels and toilet purposes is such as to practically preclude the imprinting thereon of the name, brand or trademark of the manufacturer, whose advertising of his product is thus limited to matter appearing upon the wrapper which encloses it. In short, there is at present no feasible method whereby advertising matter directed to the ultimate user can be placed upon the product itself. The present invention provides methods of and means for conveniently and economically effecting this result.

The invention will best be understood by reference to the accompanying drawings, wherein are illustrated the present preferred embodiments thereof and in which Figure 1 is a perspective view of a roll of strip paper embodying one form of the invention, and Figure 2 is a fragmentary detail illustrating a modified form thereof.

Referring to the drawings, a lengthy strip of paper designated generally by the reference numeral 1, is wound upon a core 2 to form a roll. At uniformly spaced intervals the strip is transversely perforated to form letters constituting the name of the manufacturer, an advertising slogan, or any other desired legend. In the embodiment of the invention illustrated in Figure 1, these letters are shown as formed of straight and curved lines, such as 3 and 4; while in the embodiment illustrated in Figure 2 they are formed of circular apertures such as 5. In both cases, the perforations and the spacing thereof are such as to impart the necessary weakness to the strip to permit of its being readily torn along the line of the lettering. The cost of the punching operation is, of course, no greater than is that of the conventional type of perforating. By virtue of the use of large perforations, a considerable quantity of stock, constituting the punchings may be returned to the pulp beater where it is reworked for new stock. Thus there is produced a considerable saving in the quantity of paper without shortening the sheets or sections of the strip, and as a matter of fact, without decreasing their utility since the part of each sheet which is adjacent the line of perforation is not employed in any case.

It will be understood that with the method of my invention the cost of the advertising is practically nothing, and the method insures that the product shall reach the ultimate user thereof.

I have described what I believe to be the best embodiments of my invention. I do not wish, however, to be confined to the embodiments shown, but what I desire to cover by Letters Patent is set forth in the appended claims.

I claim:

1. A strip of paper for toilet purposes having a plurality of spaced lines of perforations dividing said strip into readily separable sheets, each line of perforations comprising letters constituting an identification of the product.

2. A roll of paper for toilet purposes comprising a web having a plurality of spaced lines of perforations dividing said web into readily separable sheets, said perforations constituting letters forming the name of the manufacturer.

In testimony whereof I have affixed my signature to this specification.

HARRISON R. WILLIAMS.