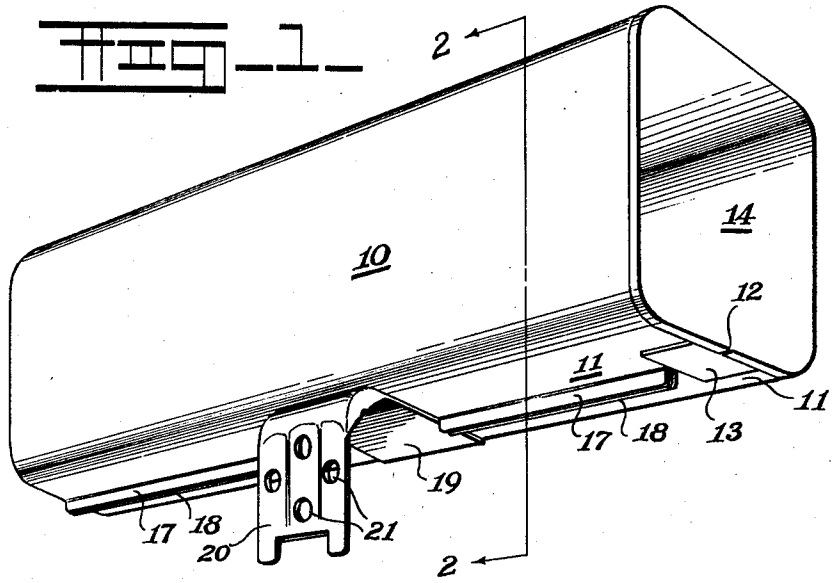
May 24, 1955 J. W. MARCUS ET AL 2,709,038

NEWSPAPER DELIVERY ROUTE TUBE

Filed Sept. 30, 1953

FIG. 1



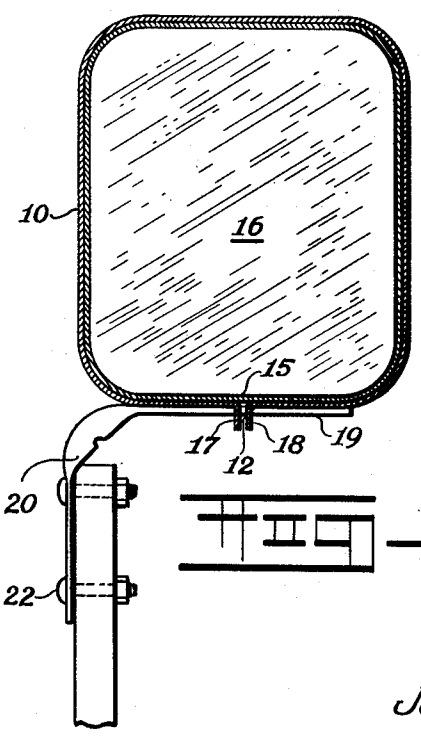




FIG. 2

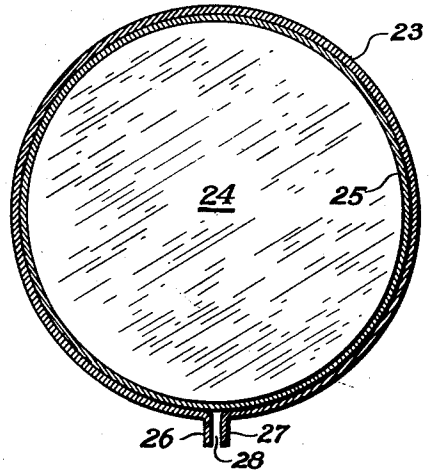



FIG. 3

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# NEWSPAPER DELIVERY ROUTE TUBE

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5 Claims. (Cl. 232—17)

This invention relates to newspaper route tubes and more particularly to route tubes having drainage openings formed in the same and means for preventing rain water and the like from re-entering said drainage openings.

The principal object of the invention is the provision of a newspaper delivery route tube having a drainage opening therein and means for preventing rain water from re-entering said drainage opening.

A further object of the invention is the provision of a newspaper route tube of a simple and economic construction, portions of the tube being spaced with respect to one another to form an elongated drainage opening and said portions being flanged to prevent re-entrance of rain water into the said tube.

A still further object of the invention is the provision of a newspaper route tube having a mounting bracket secured across the drainage opening therein and arranged to prevent the entrance of rain water thereby.

A still further object of the invention is the provision of a newspaper route tube in which a newspaper may be positioned and protected from rain and the like and arranged so that rain water running around and over the tube will not re-enter the same through the normal drainage opening therein.

The newspaper delivery route tube shown and described herein comprises an improvement in the art in that newspaper delivery route tubes as heretofore known in the art have sometimes been provided with a longitudinally extending drainage opening in their lower portions through which rain water, melting snow and the like readily drains, but such tubes have had a common fault in that rain water or the like running over the outer surface of the tube would enter the tube by way of the longitudinal drainage opening partly by absorption into a paper lying in the tube and on the drainage opening or by capillary attraction occurring either by natural causes or facilitated by the construction of the tube or the finishing material applied thereto.

The present invention, therefore, relates to a tube with the elongated drainage opening in the bottom portion thereof and which drainage opening is provided with depending flanges spaced with respect to one another and of a length sufficient to prevent water from entering the tube therethrough by capillary action or otherwise.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being the intention to cover all changes and modifications of the example of the invention herein chosen for purposes of the disclosure, which do not constitute departures from the spirit and scope of the invention.

The invention is illustrated in the accompanying drawing, wherein:

Figure 1 is a perspective view of a newspaper delivery route tube showing the improved drainage opening construction.



Figure 2 is a cross section taken on line 2—2 of Figure 1.

Figure 3 is a cross section of a modified form of newspaper delivery route tube showing the improved construction applied thereto.

By referring to the drawings and Figure 1 in particular, it will be seen that a newspaper delivery route tube is generally indicated by the numeral 10 and includes spaced side walls, a top wall and a bottom portion 11 formed by the inturned lower edges of the side walls of the tube and secured in the finished tube in spaced relation to one another to form a longitudinally extending drainage opening 12.

The spaced portions of the bottom 11 are secured to one another by a bottom plate 13 affixed across the drainage opening 12 at the front end of the tube and adjacent the open front end 14 thereof and by an inturned flange 15 (as may best be seen by referring to Figure 2 of the drawings) on the back wall 16 of the tube. The inturned ends 11 forming the bottom of the tube are flanged as at 17 and 18, respectively.

The flanges 17 and 18 extend longitudinally of the tube parallel to the drainage opening 12 with the exception of a short section intermediate the front and back ends of the tube where they are eliminated to permit the positioning of a mounting bracket 19 which comprises a section of flat strip stock secured across the bottom portions 11 of the tube and extending outwardly to one side and then downwardly as at 20 to form means by which the tube may be mounted on a stake, post or other support.

The depending portion 20 of the mounting bracket 19 is apertured as at 21 so that bolts such as 22 may be used to secure the bracket to a supporting object. The other apertures 21 may be used in connection with a U bolt (not shown) which is frequently used in securing the bracket to a metal stake.

The bottom plate 13, the flange 15 of the back 16 and the horizontal portion of the mounting bracket 19 are spot welded to the tube assembly and the same, therefore, provide water-tight closures with respect to those portions of the drainage opening 12 covered thereby.

The remaining portions of the drainage openings 12 are defined by the downwardly depending flanges 17 and 18 and it will thus be seen that rain water running across the bottom of the tube will be directed downwardly by the flanges 17 and 18 and that it will drip from their lowermost edges at a point too far below the actual bottom 11 of the tube to permit it to move upwardly by capillary attraction between the flanges 17 and 18 and wet the paper in the tube.

At the same time, the drainage opening 12 is effective in draining any rain water or snow or ice that may enter the tube and the tube is thus rendered relatively dry under all conditions and particularly in that a paper in the tube, which is normally adequately protected thereby, is not wet along the drainage opening of the tube as has heretofore been customary.

Those skilled in the art will recognize that the construction herein disclosed can be applied to newspaper delivery route tubes which are circular in cross section as well as those of rectangular shape in cross section, as disclosed herein, and such a tube is shown in cross section in Figure 3 of the drawings. The tubular body being indicated by the numeral 23, the rear end portion 24 having an annular flange 25 secured within the tubular body 23 and portions of the tubular body 23 being bent downwardly as at 26 and 27 to form depending flanges on either side of a drainage opening 28. Such circular tubes, as illustrated in Figure 3 of the drawings,

are commonly mounted with a mounting bracket similar to that shown in Figures 1 and 2 with the exception that a portion of it is arcuate to receive the tubular body **23**. It will therefore occur to those skilled in the art that other than the shapes of the route tubes shown in Figures 2 and 3, the same are identical.

Those skilled in the art will recognize that a newspaper remaining in a route tube for as long as an hour can absorb a considerable quantity of water through the drainage opening rendering the paper completely unsuitable for reading and that such situations are completely eliminated by the formation of the route tube as herein disclosed.

Having thus described our invention, what we claim is:

1. A newspaper delivery route tube comprising an elongate hollow body member having its longitudinal axis disposed substantially horizontal, said body member having axially extending bottom wall portions, the bottom wall portions being slightly spaced at the lowermost portion of the body to define thereat a longitudinally extending drainage opening, the bottom wall portions on opposite sides of said drainage opening being provided with depending, substantially vertical flanges bounding such opening, there being a back wall closing one end of the tube and secured to said body member to maintain the bottom wall portions in spaced relation.

2. A newspaper delivery route tube comprising an elongate hollow body member having its longitudinal axis disposed substantially horizontal, said body member having axially extending bottom wall portions, the bottom wall portions being slightly spaced at the lowermost portion of the body to define thereat a longitudinally extending drainage opening, the bottom wall portions on opposite sides of said drainage opening being provided with depending, substantially vertical flanges bounding such opening, there being a back wall closing one end of the tube and secured to said body member to maintain the bottom wall portions in spaced relation, a bottom plate secured to said bottom wall portions and bridging the drainage opening at the front open end of the tube to cooperate with said back wall to maintain the bottom wall portions in spaced relation throughout the extent of the drainage opening.

3. A newspaper delivery route tube comprising an elongate hollow body member having its longitudinal axis disposed substantially horizontal, said body member having axially extending bottom wall portions, the bottom wall portions being slightly spaced at the lowermost portion of the body to define thereat a longitudinally extending drainage opening, the bottom wall portions on opposite sides of said drainage opening being provided with depending, substantially vertical flanges bounding such opening, there being a back wall closing one end of the tube and secured to said body member to maintain the bottom wall portions in spaced relation, a bracket for attaching said tube to a supporting member, said bracket including a leg secured to said bottom wall portions intermediate the ends of the tube and bridging said drainage opening to cooperate with said back wall to maintain the bottom wall portions in spaced relation throughout the length of the drainage opening.



4. A newspaper delivery route tube comprising an elongate hollow body member having its longitudinal axis disposed substantially horizontal, said body member having axially extending bottom wall portions, the bottom wall portions being slightly spaced at the lowermost portion of the body to define thereat a longitudinally extending drainage opening, the bottom wall portions on opposite sides of said drainage opening being provided with depending, substantially vertical flanges bounding such opening, there being a back wall closing one end of the tube and secured to said body member to maintain the bottom wall portions in spaced relation, a bottom plate secured to said bottom wall portions and bridging the drainage opening at the front open end of the tube, a bracket for attaching said tube to a support member, said bracket including a leg secured to said bottom wall portions intermediate the ends of the tube and bridging said drainage opening to cooperate with said back wall and said bottom plate to maintain the bottom wall portions in spaced relation throughout the extent of the drainage opening.

5. A newspaper delivery route tube comprising an elongate hollow body member having its longitudinal axis disposed substantially horizontal, said body member having axially extending bottom wall portions, the bottom wall portions being slightly spaced at the lowermost portion of the body to define thereat a longitudinally extending drainage opening, the bottom wall portions on opposite sides of said drainage opening being provided with depending, substantially vertical flanges bounding such opening, there being a back wall closing an end of the tube having a circumferentially extending lateral flange projecting into and secured to said body member to maintain the bottom wall portions in spaced relation, a bottom plate secured to said bottom wall portions and bridging the drainage opening at the front open end of the tube, a bracket for attaching said tube to a supporting member, said bracket including a leg secured to said bottom wall portions intermediate the ends of the tube and bridging said drainage opening to cooperate with said lateral flange and said bottom plate to maintain the bottom wall portions in spaced relation throughout the length of the drainage opening.


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