May 17, 1949. C. D. SIMS 2,470,528

MOUNTING BRACKET ASSEMBLY FOR CUP DISPENSERS

Filed April 30, 1947

Fig. 1

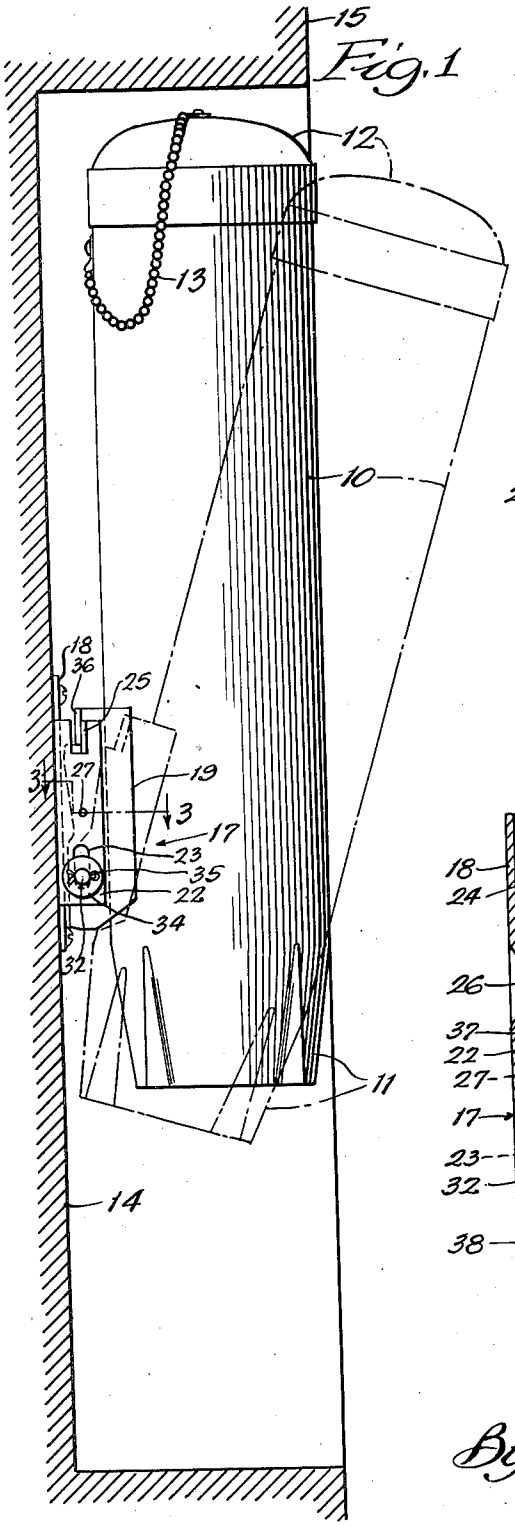


Fig. 2

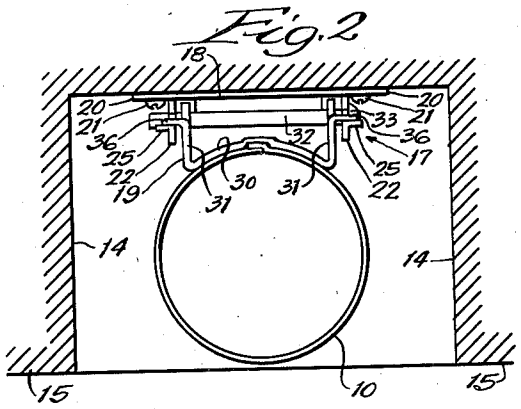


Fig. 3

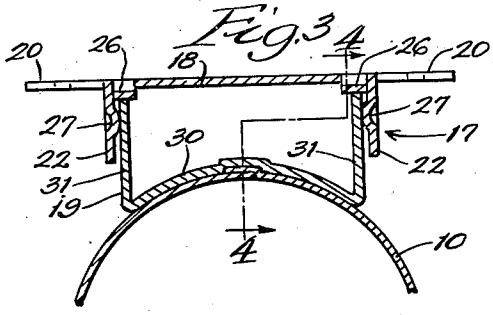
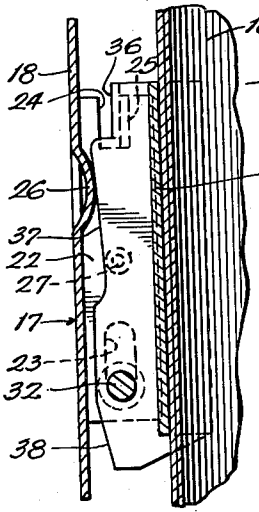


Fig. 4



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MOUNTING BRACKET ASSEMBLY FOR CUP DISPENSERS

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4 Claims. (Cl. 248—293)

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This invention relates to a mounting bracket assembly for mounting a dispenser for paper cups in a wall recess or niche as are encountered in railway cars and the like.

Prior to this invention, such cup dispensers have been removably mounted in such wall recesses requiring removal of the cup dispensers from the wall recesses and holding the same while being filled with paper cups, a difficult and perplexing procedure.

The principal object of this invention is to provide an improved mounting bracket for permanently mounting the cup dispenser in the wall recess but permitting the upper end thereof to be swung out of the recess for filling purposes and not requiring holding the same during the filling operation, thereby greatly simplifying the filling procedure. In carrying out this object of the invention, the mounting bracket assembly includes a bracket secured in the recess, a bracket secured to the dispenser and a pivotal connection therebetween. The pivotal connection preferably provides also for longitudinal movement between the brackets, and ears on the brackets interengage upon the relative longitudinal movement for retaining the upper end of the dispenser in the recess. Cam means may also be provided on the brackets for securely holding the ears in engagement, and the brackets may also be provided with frictionally engaging parts to prevent rattling due to vibration.

Further objects of this invention reside in the details of construction of the mounting bracket assembly and the cooperative relation between the component parts thereof.

Other objects and advantages will become apparent to those skilled in the art upon reference to the accompanying specification, claims, and drawing, in which—

Figure 1 is a vertical sectional view of a wall recess with the dispenser mounted therein;

Figure 2 is a horizontal sectional view through the wall recess with the dispenser mounted therein;

Figure 3 is a horizontal sectional view through the mounting bracket assembly taken substantially along the line 3—3 of Fig. 1; and

Figure 4 is a vertical sectional view through the mounting bracket assembly taken substantially along the line 4—4 of Fig. 3.

The dispenser for paper cups is designated generally at 10 and comprises a cylindrical container provided with a restricted throat 11 at its bottom through which paper cups are dispensed. The top of the dispenser may be provided with a cover

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12 which, in turn, may be secured by a chain 13 to the container to prevent loss of the cover. In filling the dispenser, the cover 12 is removed and a stack of paper cups are inserted therein to be dispensed through the restricted throat 11.

In many instances, particularly in railway cars, such dispensers are located in a recess 14 in a wall 15, and in the past it has been necessary to remove the dispenser from the wall recess in order to fill the same, the filling operation being rendered quite complex by reason of the fact that it is necessary to hold the dispenser 10 while it is being filled. In accordance with this invention, the dispenser 10 is permanently secured in the wall recess 14 and is normally maintained in an upright position therein, as illustrated in solid lines in Fig. 1, for the purpose of dispensing paper cups, and to fill the dispenser with paper cups the upper end thereof may be tipped forwardly from the wall recess, as illustrated in broken lines in Fig. 1, so that the cover 12 may be removed and cups inserted in the dispenser.

To accomplish these results, the dispenser 10 is mounted in the wall recess 14 by a mounting bracket assembly generally designated at 17.

The mounting bracket assembly includes a pair of brackets 18 and 19. The bracket 18 is provided with side extensions 20 for receiving screws 21 to secure the same in the wall recess 14. It is also provided with a pair of extensions 22 each provided with a vertically extending slot 23. The extensions 22 are provided at their upper ends with notches 24 and associated ears 25, the ears 25 being bent outwardly from the notches 24. The base of the bracket 18 has portions 26 struck forwardly therefrom adjacent the extensions 22. The extensions 22 also have nipples 27 pressed inwardly.

The other bracket 19 is provided with a base portion 30 conforming to the contour of the dispenser 10 and is suitably secured to the dispenser 10 as by spot welding. The bracket 19 is also provided with extensions 31 each provided with a hole for receiving a pin 32. The pin 32 is provided at one end with a head 33 and is inserted through the slots 23 in the bracket 18 and the holes in the bracket 19 whereby the bracket 19 is pivotally mounted on the bracket 18. The other end of the pin 32 is provided with a washer 34 held in place by a cotter pin 35, thus holding the parts in assembled relation. The bracket 19 in addition to being pivotally mounted on the bracket 18 is permitted to slide vertically with respect to the bracket 18 by reason of the slots 23 in the bracket 18. The extensions 31 of the bracket 19

are provided with laterally extending ears 36 adapted to be received in the notches 24 and engage the ears 25 of the bracket 18. The extensions 31 of the bracket 19 are also provided with cam surfaces 37 to engage the portions 26 of the bracket 18. The lower edges of the extensions 31 of the bracket 19 are provided with stop surfaces 38 for engaging the base of the bracket 18.

With the parts in the position shown in the drawing, the pin 32 is adjacent the bottom of the slots 23, the ears 36 are in the notches 24, and in engagement with the ears 25, the cam surfaces 37 are engaging the portions 26 to hold the ears 36 tightly against the ears 25, and the nipples 27 are engaging the extensions 31. In this way, the mounting bracket assembly is securely holding the dispenser 10 vertically in the wall recess 14, and by reason of the cam and ear arrangements and the nipple arrangements, rattling of the dispenser is entirely prevented.

In order to fill the dispenser 10 with paper cups, the dispenser 10 is moved vertically upwardly whereby the pin 32 rides upwardly in the slots 23 and the ears 36 ride upwardly in the notches 24. When the ears 36 clear the ears 25, then the upper end of the dispenser 10 may be swung outwardly out of the wall recess 14, the cover removed, and paper cups inserted in the dispenser. During the filling of the dispenser with paper cups, it is not necessary to hold the dispenser since its forward tilting motion is limited by the stop surfaces 38 engaging the bracket 18.

When the dispenser is filled, the cover 12 is replaced, the upper end of the dispenser is swung into the wall recess 14, and then the dispenser is pushed vertically downwardly. During this vertical downward movement, the ears 36 enter the notches 24 and the pin 32 rides downwardly in the slots 23. At the same time, the cam surfaces 37 engage the portions 26 to force the ears 36 firmly into engagement with the ears 25 thereby frictionally locking the dispenser in place.

While for purposes of illustration, one form of this invention has been disclosed, other forms thereof may become apparent to those skilled in the art and, therefore, this invention is to be limited only by the scope of the appended claims and prior art.

What is claimed is:

1. A mounting bracket assembly for mounting a dispenser for paper cups in a recess comprising, a bracket secured in the recess, a bracket secured to the dispenser, a pivotal connection between the brackets for swinging the upper end of the dispenser out of the recess to permit filling thereof, inter-engaging parts on the brackets for retaining the upper end of the dispenser in the recess, and cam means on the brackets for securely holding the inter-engaging parts on the brackets together.

2. A mounting bracket assembly for mounting a dispenser for paper cups in a recess comprising, a bracket secured in the recess, a bracket secured to the dispenser, holes in the brackets, a pivot pin extending through the holes in the brackets to pivotally connect the brackets for swinging the upper end of the dispenser out of the recess to permit filling thereof, the holes in one of the brackets being elongated to provide for relative longitudinal movement of the brackets, ears on the brackets to inter-engage upon relative longitudinal movement of the brackets for retaining the upper end of the dispenser in the recess, and cam means on the brackets for securely holding the ears on the brackets together.

3. A mounting bracket assembly for mounting a dispenser for paper cups in a recess comprising, a bracket secured in the recess, a bracket secured to the dispenser, holes in the brackets, a pivot pin extending through the holes in the brackets to pivotally connect the brackets for swinging the upper end of the dispenser out of the recess to permit filling thereof, the holes in one of the brackets being elongated to provide for relative longitudinal movement of the brackets, ears on the brackets to inter-engage upon relative longitudinal movement of the brackets for retaining the upper end of the dispenser in the recess, and frictionally engaging parts on the brackets to resist relative movement between the brackets when the ears inter-engage.

4. A mounting bracket assembly for mounting a dispenser for paper cups in a recess comprising, a bracket secured in the recess, a bracket secured to the dispenser, holes in the brackets, a pivot pin extending through the holes in the brackets to pivotally connect the brackets for swinging the upper end of the dispenser out of the recess to permit filling thereof, the holes in one of the brackets being elongated to provide for relative longitudinal movement of the brackets, ears on the brackets to inter-engage upon relative longitudinal movement of the brackets for retaining the upper end of the dispenser in the recess, cam means on the brackets for securely holding the ears on the brackets together, and frictionally engaging parts on the brackets to resist relative movement between the brackets when the ears inter-engage.

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