J. R. KLIN.

HOLDER FOR PAPER CUPS.

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1,266,279.

Patented May 14, 1918.

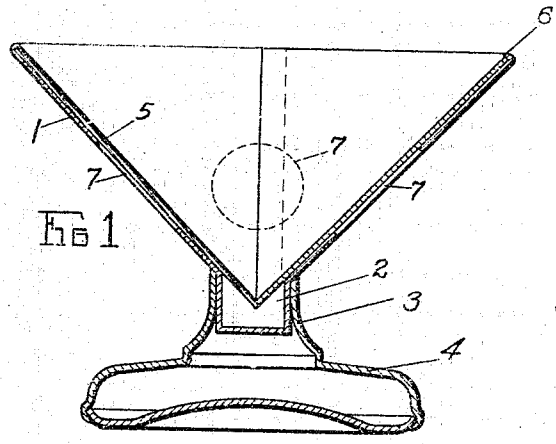


Fig 1

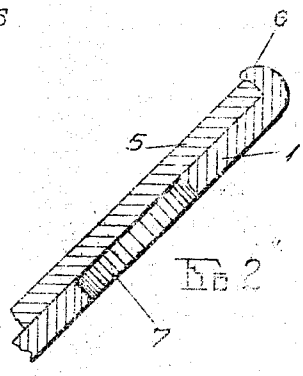


Fig 2

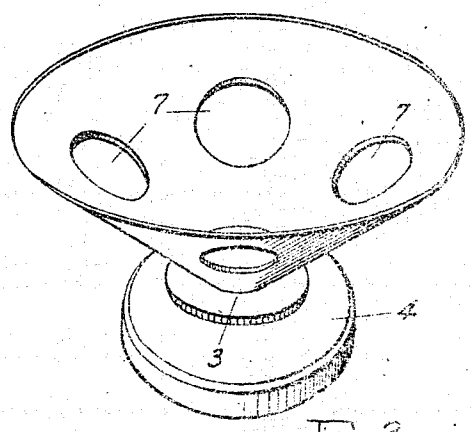


Fig 3

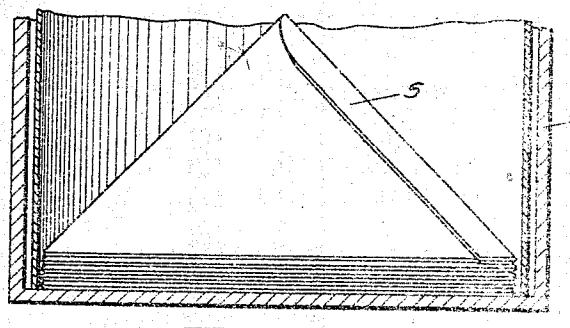


Fig 4

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UNITED STATES PATENT OFFICE.

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HOLDER FOR PAPER CUPS.

1,266,279. Specification of Letters Patent. Patented May 14, 1918.

Application filed November 20, 1916. Serial No. 132,366.

To all whom it may concern:

Be it known that I, JOHN R. KLIN, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Holders for Paper Cups, of which the following is a specification.

This invention relates to improvements in holders for paper cups, it being more particularly adapted for holding the sanitary paper cups in common use at soft drink dispensaries.

The object of the invention is to provide a holder in which the cups may be easily and quickly inserted and ejected, and also to provide a holder which will be simple in construction, economical in manufacture and effective in operation.

In the accompanying drawings:—

Figure 1 is a vertical section of a holder and cup.

Fig. 2 is an enlarged detail in section.

Fig. 3 is a perspective view of the holder.

Fig. 4 is a view of a stack of the paper cups and their container.

The main portion 1 of the holder is in the form of an inverted frustum of a cone, the cut off vertex of which is replaced by a cylindrical cup-shaped portion 2 which may be integrally formed with the main portion 1. The cup-shaped portion 2 is inserted in the upwardly extending neck 3 of a base 4, being preferably secured therein by soldering.

In the embodiment shown and preferred the holder, by virtue of the relation of its main portion and base has a goblet-like form.

The main portion 1 of the holder is of the exact shape of the paper cup 5 which it is designed to hold with the exception that the apex of the paper cup will project into the cup-shaped portion 2, this cup-shaped portion 2 being for the purpose of not only giving clearance to the apex of the cup but also to form a receptacle for any leakage of the liquid contained in the cup so that the holder may be readily cleansed. The extreme outer edge of the main portion 1 is provided with an inturned bead or flange 6 (shown in detail in Fig. 2) and is also provided about the sides thereof with a series of openings 7. From Fig. 2 it will be noted that the under side of the flange 6 is slightly channeled so as to engage and hold the edge of the paper cup, and that the flange is substantially unfixed or unchangeable in circumference.

The operation of the device is as follows:—

The paper cups 5 are stacked in telescopic form in a suitable container 8 as shown in Fig. 4, with their apexes projecting upwardly. The holder is then inverted and pressed down over the top-most cup, causing the edge of the cup to spring in under the bead or flange 5 of the holder and thus firmly securing the cup in the holder. After the cup has been used, it may be readily ejected from the holder by inserting a finger or fingers in one or more of the openings 7 and pressing inwardly.

By the arrangement described it will be seen that a holder is provided in which the paper cup may be inserted in an easy and quick manner without the necessity of touching the cup with the hands.

The goblet-like form of the holder greatly facilitates the above described operation of engaging the holder in inverted relation over the uppermost cup of the stack. The container 8 is usually of a depth to accommodate fifty of the cups but the goblet-like form of the holder enables it to be inserted into the container throughout the entire depth thereof; and consequently no difficulty is met in engaging the holder with a cup and removing the cup from the relatively deep container even when, as shown, only a few of the cups remain in the container.

Having thus described my invention, I claim:

1. In a holder for paper cups, a main portion of fixed conical form having along its upper edge an inwardly directed annular flange arranged whereby, upon the holder being pressed upon a stack of nested cups conforming to the holder, the edge portion of the outermost cup will spring under the said flange and said flange will function to prevent the displacement of said cup from within the holder.

2. In a holder for paper cups, a main portion of fixed conical form having along its upper edge an inwardly directed annular flange arranged whereby, upon the holder being pressed upon a stack of nested cups conforming to the holder, the edge portion of the outermost cup will spring under the said flange and said flange will function to

prevent the displacement of said cup from within the holder, the said main portion having an opening through which a finger may be inserted to exercise pressure on the cup which is effective to disengage its edge from under said flange.

3. A holder for paper cups comprising a base having an upwardly extended tubular neck and a main portion of fixed conical form which has at its lower end and in communication with its interior a cup-like portion which is fixed and secured in said neck and receives the drippings from the cup which may be arranged in said main portion.

In testimony whereof, I have hereunto set my hand this 14th day of November 1916.

JOHN R. KLIN.

Witnesses:
PERLE L. SAGEBIRD,
LEE MARKEY.