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AUXILIARY DRINKING CUP

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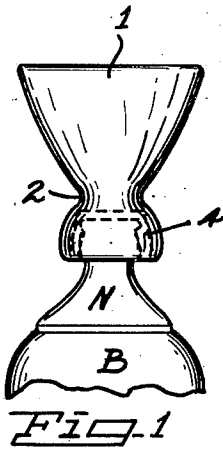


Fig. 2

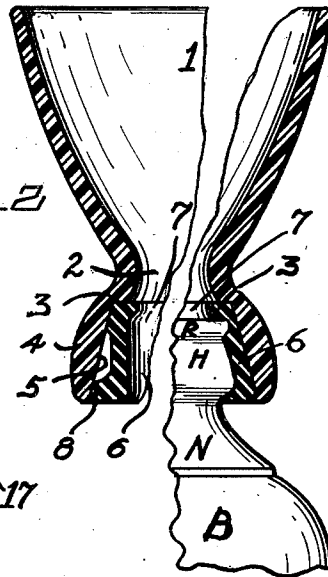


Fig. 2a

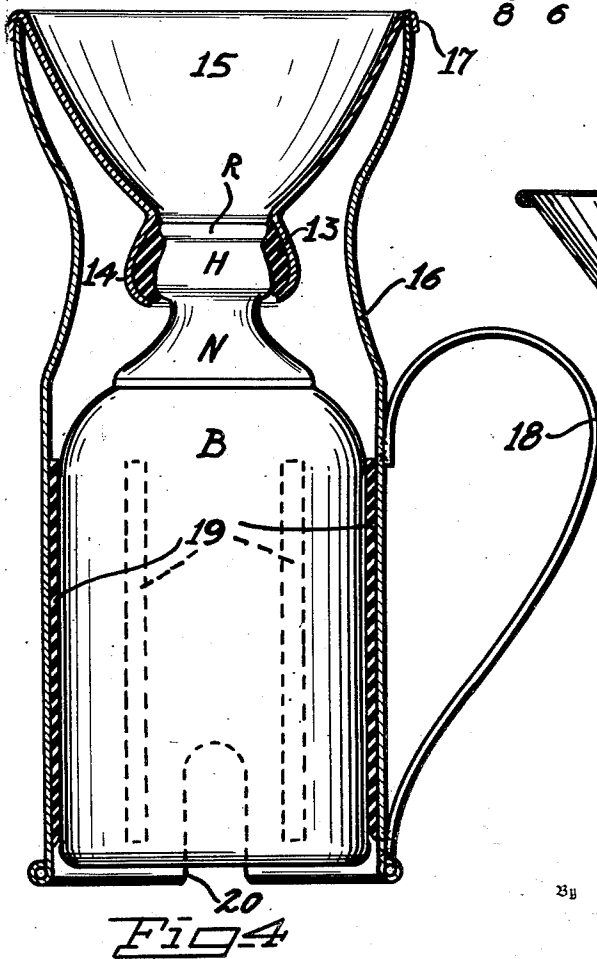
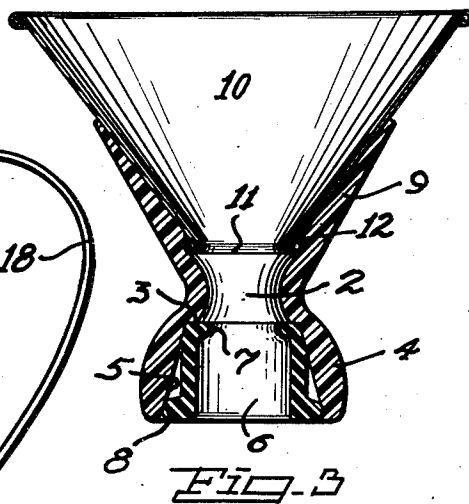


Fig. 3

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AUXILIARY DRINKING CUP

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2 Claims. (Cl. 215-100)

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The present invention relates to an auxiliary drinking cup or drinking vessel, which while well adapted for various purposes and uses, is especially designed for quick and easy attachment to and use with a typical bottle of a carbonated beverage, soft drink, or similar liquid; and with equal facility the drinking cup or vessel may readily be detached from the bottle after the performance of its functions.

The invention consists essentially in a portable and handy drinking cup or vessel, preferably but not necessarily of Venturi shape, having a resilient and expansible, deformable nipple, by means of which it may be attached to and become a dispensing part of the bottle; and which vents the interior of the bottle during a drinking action, thereby facilitating the outflow of the liquid and releasing escaping gases, as from a carbonated beverage.

The drinking cup or vessel includes a minimum number of parts which may be manufactured with facility and low cost of production, and the parts may be assembled with convenience to provide a durable, sanitary, and non-leaking auxiliary drinking device that may readily be attached to and detached from the bottle or other container.

In the accompanying drawings I have illustrated several complete examples of physical embodiments of my invention in which the parts of the cup or vessel are combined and arranged in accord with modes I have devised for the application of the principles of my invention. It will however be understood that other changes and alterations may be made in these exemplifying drawings and structures, within the scope of my claims, without departing from the principles of the invention.

Figure 1 is a view in side elevation showing a cup constructed in accordance with my invention attached to the upper portion of a bottle.

Figure 2 is an enlarged sectional view taken vertically through the cup and its nipple.

Figure 2A is a view showing the cup and the nipple in vertical section and fitted upon a bottle shown in elevation.

Figure 3 is a vertical sectional view of a modified form of the drinking cup or vessel equipped with a holder.

Figure 4 is a vertical sectional view of a further modified form of the drinking vessel embodied in a bottle-holder, or carrier.

In order that the general arrangement and utility of parts may readily be understood I have depicted a typical bottle B, usually employed for carbonated beverages and other soft drinks,

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which is fashioned with the customary neck N, head H and mouth, and the annular rib or rim R that is employed in attaching a closure cap.

In Figs. 1 and 2A the auxiliary drinking cup 1, having a Venturi shape and fashioned of a molded plastic, or other suitable material, is provided with a reduced neck 2 that is formed with an interior annular shoulder 3, and the neck terminates in a hollow attaching head 4 having an out-spreading or flaring inner wall 5.

Within the attaching head is encased and confined an expansible and deformable nipple 6, made of rubber, or other resilient and elastic material, that is employed to fit over and frictionally grip the head and mouth of the bottle. Initially, and when not in use, the wall of the deformable nipple is of substantially cylindrical shape with the outer circular end of the nipple pressed or seated against the annular shoulder 3 of the cup, and this end of the nipple is fashioned with an interior annular lip 7.

The inner or lower end of the nipple is fashioned with an exterior annular flange 8 which frictionally engages the wall 5 at the open end or mouth of the head 4 of the cup thereby forming an initial annular space between the outer surface of the cylindrical nipple and the inner surface of the flaring wall 5 of the head, as seen in Fig. 2.

When the cup is slipped over the bottle head and attached in drinking position, as seen in Fig. 2A, the elastic or resilient nipple is deformed or reformed to rigidly grip the cup on the bottle head. Thus the rim R, head H, and a portion of the neck N of the bottle spread the nipple outwardly, under the annular shoulder 3 of the cup, to fill the annular space and form interior annular grooves in the nipple that securely retain the cup in place, and seal the cup against leak or waste of the beverage.

In the modified form of the invention shown in Fig. 3, the drinking vessel of Venturi shape, includes a cup holder 9, preferably of hardened plastic material, which is equipped with the previously described neck 2 and shoulder 3, and the hollow head 4 with its inner flaring wall 5. The deformable nipple 6, with its annular lip 7 and flange 8 is permanently secured within the hollow head, and the nipple performs the functions referred to in the description of Fig. 2.

The holder 9 in Fig. 3 is adapted to receive and retain a dispensible or throw-away drinking cup 10, of paper or other similar material, and this conical cup, at its apex or inner end is fashioned or designed with an exterior annular crimp or

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roll 11 that fits neatly within an inner annular seat 12 of the holder, to seal the joint between the cup and holder against leakage or waste of the liquid beverage flowing from the bottle.

In the further modified form of the invention illustrated in Fig. 4, an elastic and deformable nipple 13 is expanded and thereby retained within the hollow head 14 of the Venturi shaped drinking vessel or cup 15.

This metallic and demountable drinking cup forms part of a tubular, open-bottom bottle-holder 16, to the upper circular edge of which the cup is permanently attached by the exterior flange or crimp 17 of the cup.

The open bottom tubular bottle-holder is provided with a handle 18, and an annular series of interior vertical or upright friction strips 19, of rubber or similar elastic material, which are adapted to frictionally engage the bottle and retain the holder in position.

At 20, one of two notches are shown in the holder to permit a finger and thumb to grasp the bottle as it is being inserted upwardly through the open bottom of the holder, and the head or mouth of the bottle is thus pushed into the expandible nipple 13, so that the bottle is safely retained within the holder by means of the friction strips and the suspending head and nipple of the cup 15.

The bottle holder is made up in standard sizes for use with different sizes or shapes of bottles, and the bottle may readily be inserted within the holder after the sealing cap has been removed from the bottle. After the contents have been emptied from the bottle, the bottle may be grasped by a finger and thumb and the empty bottle may be forcibly withdrawn through the open bottom of the holder.

Having thus fully described my invention what I claim as new and desire to secure by Letters Patent is:

1. In an auxiliary and portable drinking attachment for a bottle, a cup-shaped body having a reduced neck portion terminating in a hollow head having an outwardly flaring wall and an interior

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annular shoulder, of an elastic nipple seated against the shoulder, an inner annular lip about the upper end of the nipple, an exterior annular flange about the lower end of the nipple in frictional engagement with the flaring wall.

2. In a drinking attachment for a bottle, a cup-shaped body open at its bottom and having a depending annular head formed internally with a downwardly flaring annular wall and with a circumferentially extending shoulder about the upper edge of the said wall, an elastic nipple fitting into said head and having its upper end bearing against said shoulder and formed internally with a circumferentially extending lip, the lower end of the nipple being formed with an external circumferentially extending flange having tight fitting engagement with the inner wall of the head, and portions of the nipple about said flange being spaced from the said wall of the head whereby the portions of the nipple spaced from the said wall and the flanged lower end of the nipple may be distorted laterally when a bottle neck formed with a head surrounded by a bead is thrust upwardly into the nipple and the nipple have close fitting sealing engagement with the bead of the bottle neck.

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