

July 11, 1967

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3,330,449

DECANTER WITH DETACHABLE SPOUT

Filed Aug. 25, 1965

2 Sheets-Sheet 1

Fig. 1.

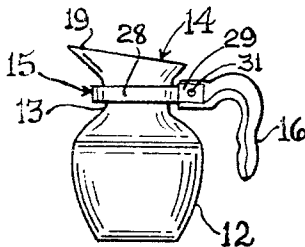


Fig. 5.

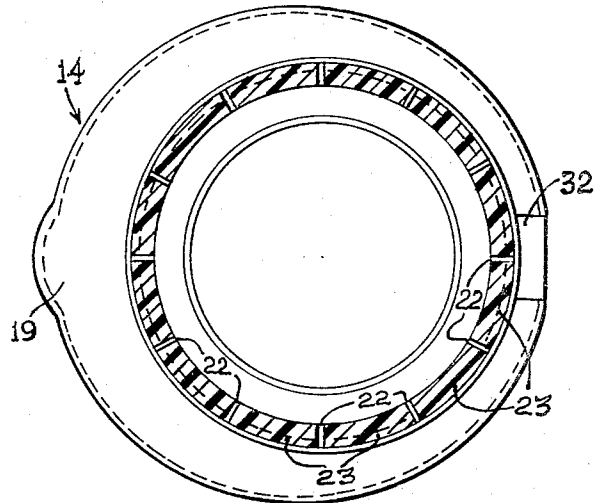


Fig. 3.

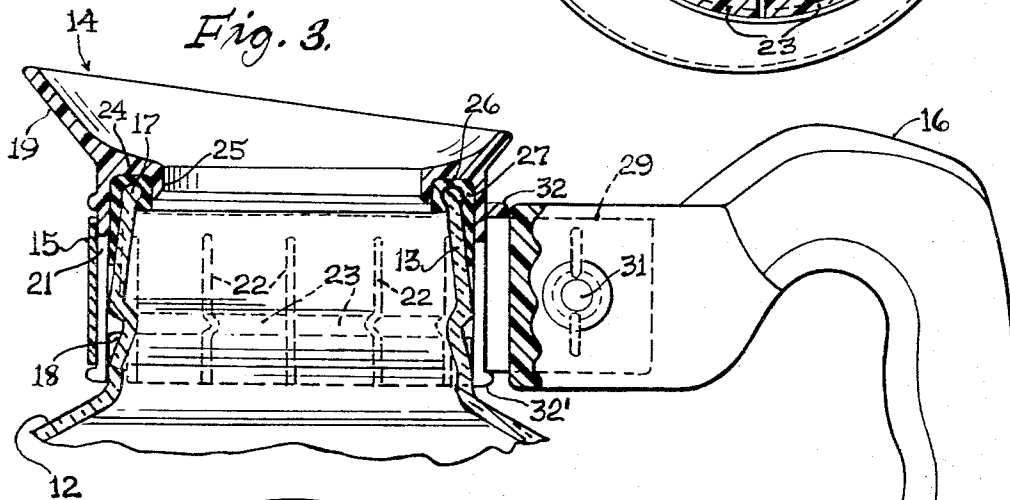
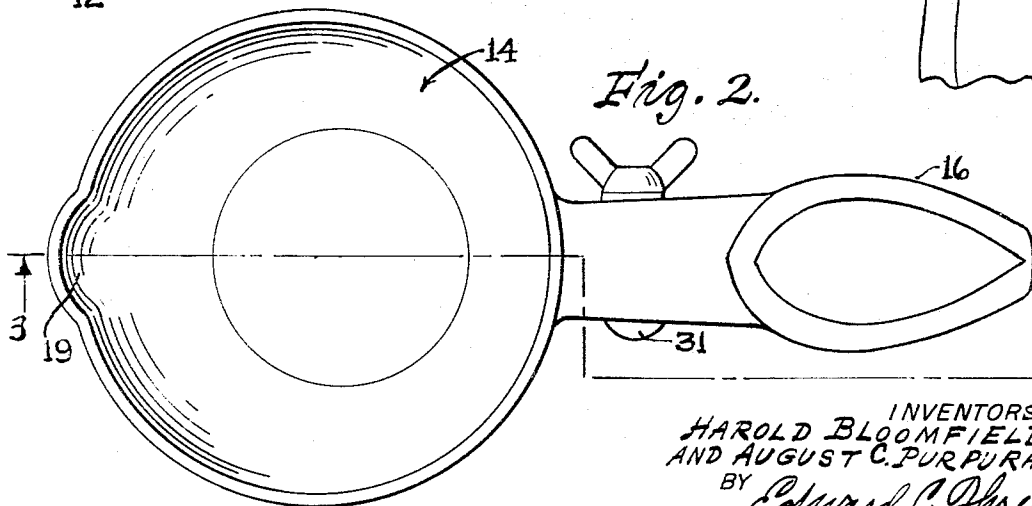


Fig. 2.



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Fig. 4.

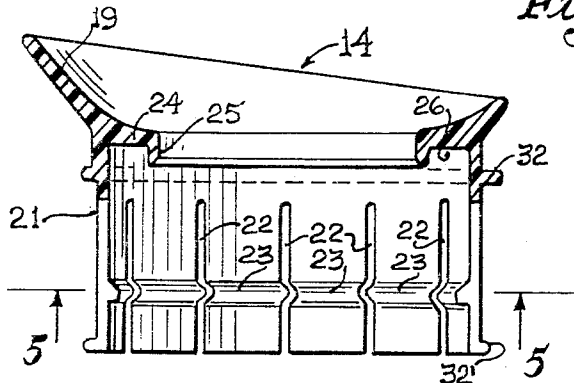


Fig. 6.

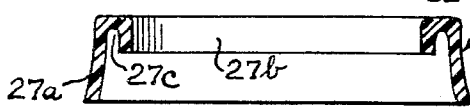
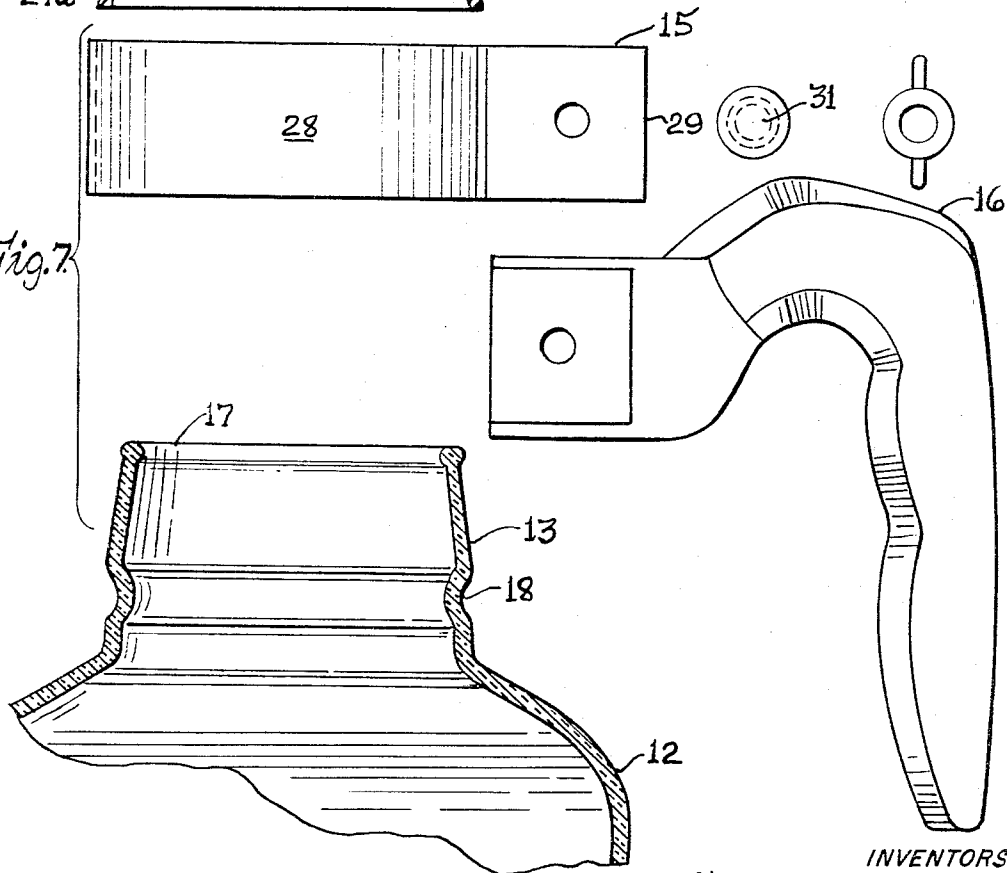


Fig. 7.



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DECANTER WITH DETACHABLE SPOUT

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5 Claims. (Cl. 222-475)

This invention relates to improvements in decanter with detachable spout and is particularly concerned with a decanter having a novel and efficient removable pouring spout.

Decanters of the type to which this invention pertains conventionally are formed of heat-resistant glass having an attached or integral pouring spout and a handle secured to the pouring neck thereof. Various types of pouring spouts have been devised for removable attachment to the neck of a decanter. Such known spouts have presented various problems such as adaptation to decanters having pouring necks that are out of round and which may vary in dimensions to a degree that a liquid-tight seal between the decanter neck and the pouring spout is difficult to attain. Obviously, should the pouring spout fail to have a liquid-tight seal with the decanter neck there is a likelihood of the fluid accumulating between the spout and neck, with resultant discoloration and unsanitary condition.

The pouring spout herein disclosed preferably is fabricated from polypropylene plastic and is of a type that will adapt itself to decanter necks of slightly varying dimensions and which may not be truly cylindrical. It is constructed to adjust itself readily to the pouring neck over which it is fitted and it includes novel means to insure that there is a fluid-tight joining between it and the decanter neck. To this end, the pouring neck has associated therewith a sealing gasket that overlies and is compressed against the outer edge and outside surface of the upper part of the neck thereby to prevent entrance of any liquid between the neck and the pouring spout. It is therefore an object of the invention to provide a decanter-pouring spout assembly of the character referred to.

Another and equally important object of our invention is to provide a plastic pouring spout with a sealing gasket contained therein to seal the outer end of the neck of a decanter over which the spout is fitted.

Another object is to provide novel means to insure tight sealing of the gasket at the time the pouring spout is secured to the decanter neck.

Another object of the invention is to provide a decanter pouring spout with a readily contractible mounting skirt.

Another object of the invention is the provision of a decanter pouring spout that is not difficult or expensive to manufacture and one that is easily and quickly mounted on the neck of a decanter.

Other objects will appear hereinafter.

The invention consists in the novel combination and arrangement of parts to be hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings showing the preferred form of construction, and in which:

FIG. 1 is an elevational view of a decanter to reduced scale embodying the features of the invention;

FIG. 2 is a top plan view thereof;

FIG. 3 is a diametrical sectional view thereof taken on line 3-3 of FIG. 2;

FIG. 4 is a diametrical sectional view of the pouring spout;

FIG. 5 is a horizontal sectional view of the pouring spout, looking in the direction of the arrows on line 5-5 of FIG. 4;

FIG. 6 is a vertical sectional detail view of the sealing gasket;

FIG. 7 is a fragmentary detail view of the neck of the decanter, the handle and its mounting means in exploded relation with respect to each other.

Referring to the exemplary embodiment of the invention disclosed in the accompanying drawings, and particularly to FIGS. 1 and 2 thereof, the decanter illustrated includes a bowl 12 having an upstanding tubular neck 13. An annular pouring spout 14 is removably secured to the neck by means of a clamp strap 15 to which is secured a handle 16.

The clamp strap 15 is arranged in relation to the pouring spout 14 so as to cooperate with it in a manner to draw the pouring spout 14 in a generally downward direction while being secured in place to effect tight sealing between the pouring spout and the upper annular end portion 17 of the neck, all in a manner to be described presently.

As is well understood, the decanter may be formed of heat-resistant glass material. The neck 13 is generally tubular and is provided with an inwardly projecting annular channel or recess 18 closely adjacent to its juncture with the bowl 12. The channel 18 is substantially semi-circular in section so as to provide an inwardly inclined wall surface at least at the upper side thereof.

The pouring spout 14, which preferably is formed from polypropylene plastic, or other inelastic flexible material, comprises an outwardly flared pouring lip 19 and a generally cylindrical depending skirt 21, defining a depending mounting portion of a diameter to fit loosely over the decanter neck 13. As best shown in FIG. 3, the skirt 21 is formed with circumferentially spaced slits 22 that extend upwardly from and open onto the bottom edge thereof. Formed on the inside surface of said skirt is a circumferentially extending rib which is divided into segments 23 by the slits 22. These rib segments 23 are spaced from the bottom edge of the skirt a distance to locate them in the area of the annular channel 18 in the neck 13 when the pouring spout 14 is in place over the neck.

The upper end of the pouring spout includes, at the base of the lip 19, an internal circumferential flange 24 having an inner peripheral downwardly extending annulus 25 defining with the skirt 21 an inverted annular channel 26 (FIG. 4). An annular gasket 27 (FIG. 4) of soft pliable material, such as rubber, is seated in this channel. Preferably the gasket 27 is channel-shaped in cross section, the channel having its outer wall 27a of a greater height than the inner wall 27b, to provide a channel 27c which frictionally receives the edge portion 17 of the decanter neck 13. When the pouring spout 14 is fitted onto the decanter neck 13, the skirt 21 surrounds the same and the upper or outer edge portion of the decanter neck is seated against the gasket 27.

The clamp strap 15 comprises a split band having a generally cylindrical portion 28 fitted about the pouring spout skirt 21 and the free end portions 29 which embrace and are secured to the handle 16, as by a screw 31. Ribs 32 and 32' are formed on the outside surface of the skirt 21 between which the strap 15 is positioned. The rib 32 (FIG. 3) abuts the adjacent end of the handle 16 to effectively resist handle displacement about the screw 31.

When the clamp strap 15 is in place and is drawn up around the skirt 21 by the tightening of the screw 31, the skirt 21 is compressed or contracted inwardly radially about the decanter neck. In so doing, the rib segments 23 are pressed tightly into the annular channel 18 in such manner as to cause the rib segments to be drawn downwardly by reason of the inwardly inclined wall surface of said channel. This rib-channel engagement is effective to pull the pouring spout downwardly relative to the neck

13 to compress the gasket 27 and provide a liquid-tight seal around the outer end of the neck and thus prevent the flow of liquid into the space between the skirt and the outside surface of the neck.

It is apparent that the spout may be readily mounted on and removed from the decanter neck and that it readily accommodates itself to different bowl necks notwithstanding any variation in the dimensions or out-of-round characteristics of said neck.

While we have illustrated and described the preferred form of construction for carrying our invention into effect, this is capable of variation and modification without departing from the spirit of the invention. We, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail ourselves of such variations and modifications as come within the scope of the appended claims.

Having thus described our invention, what we claim as new and desire to protect by Letters Patent is:

1. A decanter comprising a container provided with a bowl and an upstanding pouring neck,
 - (a) said neck terminating in an annular outer end,
 - (b) a generally annular spout arranged to be removably associated with the neck,
 - (c) said spout being formed of inelastic flexible material,
 - (d) the spout having an annular portion fitting over the outer end of the neck,
 - (e) a pouring lip extending outwardly from said annular portion,
 - (f) a resiliently flexible gasket formed substantially channel-shaped in cross section providing an inner and outer flange with the outer flange of a length greater than the inner flange and with the outer flange arranged between said annular portion and the outer end of the neck,
 - (g) and handle means having a portion embracing said annular portion.
2. A decanter as defined in claim 1, in which said pouring spout and neck have cooperating means to urge the annular portion downwardly to compress the gasket when the pouring spout is fitted over said neck.
3. A decanter comprising a container provided with a bowl and an upstanding pouring neck,
 - (a) said neck terminating in an annular outer end portion,
 - (b) a generally annular spout arranged to be removably associated with the neck,
 - (c) said spout being formed of inelastic flexible material,
 - (d) said spout having an annular skirt surrounding the neck,
 - (e) an annular internal flange on said skirt overlying the outer end of the neck and having formed therein an annular channel opening downwardly thereof,
 - (f) a pouring lip extending outwardly from said annular skirt, and

(g) annular compressible sealing means of channel-shaped cross section received in said channel with a portion thereof located between the annular skirt and the outer end of the neck, said sealing means including inner and outer downwardly depending lips which engage respectively the inner and outer sides of the annular outer end portion of the neck.

4. The decanter recited in claim 3, in which the skirt and neck have cooperating means to urge the annular internal flange downwardly to compress the annular sealing means.

5. A decanter comprising a container provided with a bowl and an upstanding pouring neck,

- (a) said neck terminating in an annular outer end,
- (b) a generally annular spout arranged to be removably associated with said neck,
- (c) said spout being formed of inelastic flexible material,
- (d) said spout having an annular skirt surrounding the neck,
- (e) an annular internal flange in said skirt overlying the outer end of the neck and having formed therein an annular channel opening downwardly thereof,
- (f) said skirt being slit longitudinally below said flange,
- (g) a pouring lip extending outwardly from said internal flange,
- (h) annular sealing means of channel-shaped cross section received in said channel between the annular flange and the outer end of the neck, said sealing means including inner and outer downwardly depending lips which engage respectively the inner and outer sides of the annular outer end of the neck, and
- (i) means in said skirt and on said neck arranged to cooperate when the skirt is contracted radially inwardly to urge the annular flange downwardly to compress the annular sealing means.

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