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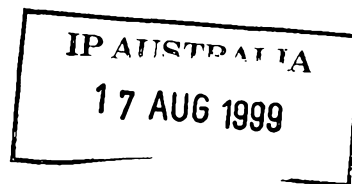
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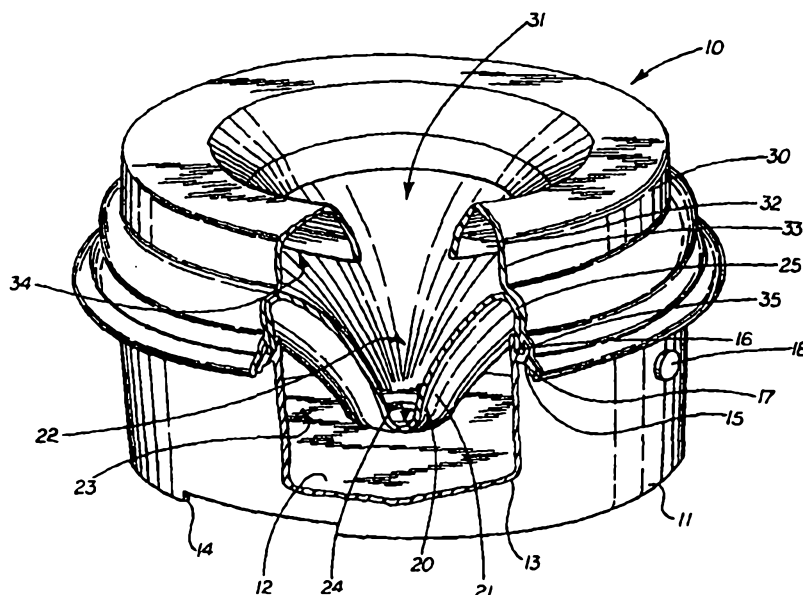


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(54) Title: SPLASH AND SPILL-RESISTANT CONTAINER FOR ANIMAL USE



(57) Abstract

An improved splash and spill-resistant container (10) for holding fluids for animal consumption is disclosed. The container forms a cavity with a top access aperture (31) which defines an inverted channel. A partition (20) divides the cavity into first (22) and second (23) chambers. The partition (20) curves downward from the periphery substantially to the floor (11) of the container and is provided with a flow aperture (24), thereby allowing fluid communication between the first and second chambers (22, 23). A valve (18) is also provided to release air from the second chamber (23). The container (10) may be subjected to lateral jarring or inverted without spilling a fluid contained therein.

SPLASH AND SPILL-RESISTANT CONTAINER FOR ANIMAL USE

Technical Field

The present invention relates generally to the container art and, more particularly, to an improved splash and spill-resistant container for holding fluids for animal consumption.

5 **Background of the Invention**

The consumption of water or other fluids is essential to the health, livelihood, and general well-being of all wild and domestic land animals. However, unlike their wild counterparts, house-hold pets and other confined animals are generally ill-equipped to seek out and obtain such fluids. Accordingly, such animals rely on humans to provide the same.

10

The general mode of providing animals with fluids is through containers such as a simple dog dish, an old bowl or the like. Of course, these dishes and bowls are often semi-spherical in shape and, although easily filled with fluid and accessed by an animal, are prone to allowing significant splashing and spillage

when an animal or human caretender inadvertently comes into physical contact with the exterior of the bowl. This is especially true for some animals, such as large dog breeds, which may accidentally step on the perimeter of the bowl or kick the bowl, thereby causing it to flip over and spill the fluid contents on the ground. Even specially contoured one-piece pet bowls formed of molded plastic that are well-known in the art (see, for example, U.S. Patent No. 3,722,476 to Van Ness et al.), suffer from similar splash and spillage problems.

During extended trips, animals require fluid nourishment to maintain comfort and well-being. This often results in a significant number of inconvenient stops being made to provide the animal with sufficient amounts of fluid. As can be appreciated, this extra stopping can substantially increase the required travel time. Furthermore, some animals, such as dogs employed in law enforcement operations, may spend many hours per day, several days per week in a vehicle, and will require a constant supply of fluids to remain healthy.

In the typical vehicle, such as a car, truck, boat, or plane, the only suitable location to place such a container is on the floor. As can be appreciated, the motion of the vehicle during operation creates significant jarring which will inevitably create waves or ripples in the fluid. These waves or ripples in turn will likely cause the fluid to splash or spill from any standard container. Furthermore, during emergency stopping or swerving, the container may flip over or invert, thus causing the entire contents to empty onto the floor of the vehicle, an obviously undesirable situation.

Previously, others have proposed a variety of containers for holding fluids for animal consumption in an attempt to overcome this problem. A basic example of such a container is found in U.S. Patent No. 3,152,576 to Faurot. The container disclosed in the '576 patent is provided with a flat frusto-conical wall extending partially into the cavity of the container to prevent water from spilling if the container is tilted. However, this proposed design has several shortcomings.



As can be appreciated from viewing the container, the amount of fluid that can be held is extremely limited. If the container is filled beyond the aperture in the frusto-conical wall, the fluid will easily spill if the container is tipped or inverted. Further, even if the amount of fluid is limited as shown,
5 nothing prevents the fluid from splashing out of the container if significant lateral jarring occurs.

U.S. Patent No. 3,076,435 to Seymour discloses a container with an exchange system that allows fluid held in a reservoir to continuously refill into a chamber after an animal drinks from the container. Although this design
10 attempts to solve the problem of splashing created by lateral jarring and tilting of the container, it is apparent that fluid held within the reservoir easily spills out onto the floor if the container is inverted or tipped beyond a specified angle. Therefore, at best, this design can be said to only minimize spillage under certain limited conditions.

15 Finally, U.S. Patent No. 5,297,504 to Carrico discloses a container having an internal dish for holding fluid, the dish being in fluid communication with the surrounding housing. While the housing includes an inverted channel for catching fluid upon the inversion of the container, the entire volume of fluid in the container must be caught. This limits the effectiveness of this design to
20 prevent inadvertent spills and the volume of fluid which may be held.

Thus, a need is identified for an improved splash and spill-resistant container for holding fluids for animal consumption that may be subjected to significant lateral jarring without fluid splashing, that may be inverted without spilling the fluid contents, and that is of simple, yet durable, construction.

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According to one aspect of the present invention there is provided a splash and spill-resistant container for holding a fluid, comprising a base having a side wall defining a cavity for holding the fluid; a partition mating with said side wall of said base and dividing said cavity into first and second chambers, said partition having a flow aperture permitting
 5 fluid communication between said first and second chambers; a housing overlying said partition and said base, said housing having an inverted channel and an aperture for accessing the fluid in said first chamber.

According to another aspect of the present invention there is provided a splash and spill-resistant container for holding a fluid, comprising, a base having a floor and an
 10 upstanding side wall defining an open-top cavity; a first frusto-conical section mating in sealing engagement with said upstanding side wall of said base, said first frusto-conical section having a centrally-located flow aperture; and a second frusto-conical section mating in sealing engagement with said upstanding side wall of said base, said second frusto-conical section having a centrally-located access aperture.

According to yet another aspect of the present invention there is provided a splash and spill-resistant container for holding a fluid, comprising: a base having a floor and a
 15 slide wall terminating in a peripherally-grooved ledge, a valve extending through said side wall of said base; an inverted frusto-conical partition having a centrally-located flow aperture and a peripheral flange, said peripheral flange mating with said grooved ledge; and a housing having a centrally-located access aperture defining an internal flange and
 20 an external flange, said external flange coupling to said groove ledge of said base.

According to yet another aspect of the present invention there is provided a splash and spill-resistant container for holding a fluid, comprising a body having an upstanding side wall forming an interior chamber, said side wall terminating in an inverted channel
 25 forming a flange, said flange defining an access aperture; a partition mating with said upstanding side wall of said body, said partition dividing said interior chamber of said body into a first chamber and a second chamber, each of said chambers being in fluid communication through a flow aperture in said partition.

According to yet another aspect of the present invention there is provided a splash
 30 and spill-resistant container for holding a fluid, comprising: a body defining an interior



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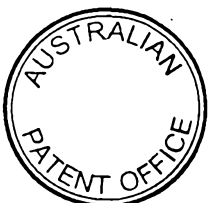
chamber for holding the fluid, said interior chamber including a first spill-catching subchamber and a second spill-catching subchamber, said body further including an access aperture for permitting the animal to access the fluid hold in said interior chamber, whereby upon inversion of said container said first and second chambers
5 prevent appreciable fluid spillage.

The partition is preferably inverted and frusto-conical. Ideally, the partition extends downwardly toward the floor of the base, so as to divide the cavity into the two above-mentioned chambers. In the center of the frustum of the cone that forms the partition, a flow aperture is provided that allows fluid to communicate between the two
10 chambers. Preferably, the partition is formed such that upon attachment to the base, the flow aperture is positioned just above the floor of the base. Additionally, an external flange is formed in the periphery of the partition. This flange mates with the groove formed in the ledge of the base.

Preferably, the container also includes a valve in the side wall of the base at a
15 level above a predetermined preferred fluid level. As the second chamber is ideally sealed, this valve advantageously allows air to quickly escape the second chamber during filling. Further, this valve may also assist in emptying fluid from the container without necessitating disassembly.

The housing is securably attached over the base and partition. An access aperture
20 located in the center of the housing allows an animal to access fluid held in the first chamber of the container. The outer periphery of the housing is provided with a stepped flange having a corresponding inverted groove for mating with the outermost upstanding member of the groove of the base. Further, the stepped flange terminates in a flap, which ideally extends over and couples with the ledge formed along the periphery of the
25 side wall of the base, thereby forming a substantially fluid-impervious seal.

A portion of the housing is preferably of inverted frusto-conical shape so that it extends partially into the first chamber, thereby forming an internal downturned flange that defines the access aperture. This flange advantageously



prevents fluid from splashing outside of the first chamber of the container during lateral jarring. It is the combination of the internal downturned flange and the stepped flange that forms the inverted channel that catches and holds fluid when the container is partially or fully inverted. In order to accommodate this purpose, the inverted channel has a volume A that is equal to or greater than the volume B of the first chamber.

Advantageously, upon the inversion of the container, any fluid residing in the first chamber of the base is diverted by the partition into the inverted channel formed in the housing. Furthermore, in the preferred embodiment, the inverted frusto-conical partition is provided with a specified degree of curvature that assists in creating ideal fluid flow along the partition. Specifically, upon inversion of the container, this curve, in conjunction with the surface tension and waveform of the fluid being contained, advantageously causes the fluid to flow down the partition into the inverted channel in the housing. As can be appreciated, this controlled fluid flow substantially prevents any spillage or splashing through the access aperture in the housing.

Upon inversion of the container, the fluid residing in the second chamber formed by the partition flows down the backside of the partition, where the fluid is trapped in the top of this second chamber. Thus, as is now realized, the container may be completely inverted without any appreciable fluid spillage.

Still other objects of the present invention will become apparent to those skilled in this art from the following description wherein there is shown and described a preferred embodiment of this invention, simply by way of illustration of one of the modes best suited to carry out the invention. As it will be realized, the invention is capable of other different embodiments and its several details are capable of modification in various, obvious aspects all without departing from the invention. Accordingly, the drawings and descriptions will be regarded as illustrative in nature and not as restrictive.

Brief Description of the Drawings

The accompanying drawings incorporated in and forming a part of the specification, illustrate several aspects of the present invention and, together with the description, serves to explain the principles of the invention. In the drawings:

Figure 1 is a perspective view of a fully assembled splash and spill-resistant pet container constructed in accordance with the principles of the present invention, with a cutaway view showing the base, the inverted frusto-conical partition, and the inverted frusto-conical housing, each mating to form a seal;

Figure 2a is a cross-sectional view of the container showing the base, including the concave floor and the valve through the side wall of the base, the inverted frusto-conical partition extending down into the base, and the inverted frusto-conical housing, including access aperture and internal downturned flange;

Figure 2b is a schematic view showing the inter-fitting of the components to form the preferred embodiment of the container of the present invention; and

Figures 3a, 3b, 3c, and 3d are progressive views showing the action of a fluid held within the container during various stages of rotation, including the complete inversion of the container.

Reference will now be made in detail to the present preferred embodiment of the invention, an example of which is illustrated in the accompanying drawings.

Detailed Description of the Invention

Reference is now made to Figures 1 and 2a, showing a splash and spill resistant container 10 for animal use constructed in accordance with the principles of the present invention. For purposes of illustration only, a circular container is shown, although modifications to the shape of the container are contemplated.

In the preferred embodiment, the container 10 is formed of three separate sections or components, each being substantially circular in shape. A circular base 11 having a floor 12 and an upstanding side wall 13 forms an open-top cavity for holding fluid. The floor 12 is substantially concave relative to the horizontal plane (See Figure 2a) and, thus, the base 11 is provided with a peripheral support flange 14 extending downward from the floor. As can be appreciated, this support flange 14 acts to elevate the center depression of the concave floor above ground level and, thus, provide stability to the container.

A peripheral ledge 15 extends substantially perpendicularly from the side wall. The upstanding side wall 13 also continues beyond ledge 15 and, coupled with a member extending upwardly from the top surface of the ledge 15, forms a u-shaped mating groove 16. A lip 17 for assisting in securing the other components of the container together is formed in the outer portion of the ledge 15.

A valve 18 is provided through the upstanding side wall 13. This valve 18 is ideally situated above a preferred fluid level, as will be described in more detail below. For purposes of illustration, the valve 18 is shown as a rubber stopper of simple construction, although other types of valves that are well-known in the art are contemplated, such as push-button bleeder valves or the like.

In operation, valve 18 allows any surplus air to exit the second chamber

23 during the filling of the container 10 or after inversion, as is described in more detail below. Furthermore, the valve 18 serves the advantageous function of allowing the otherwise spill-proof fluid held in container 10 to be emptied without necessitating disassembly.

5 A partition 20 having an inverted frusto-conical wall 21 fits onto base 11. Ideally, this frusto-conical wall 21 curves from the periphery downward into the center of the base 11, stopping just above the floor 12, thereby dividing the cavity formed by base 11 into an inverted, substantially conical first chamber 22 and an annular second chamber 23. A flow aperture 24 at the bottom of the
10 frustum of the partition 20 allows fluid to communicate between the first and second chambers 22, 23.

 A mating flange 25 extends from the external periphery of the partition 20 for insertion into the u-shaped mating groove 16 of base 11. Ideally, the width of the U-shaped mating groove 16 is approximately twice the width of the
15 mating flange 25, thereby allowing the housing 30 to couple with the base 11, as is described more particularly below.

 The container 10 also includes an inverted frusto-conical housing 30 that fits atop partition 20 and is secured to the base 11. An access aperture 31 is formed in the center of the frusto-conical portion of the housing 30. As can be
20 appreciated from viewing Figure 1, the access aperture 31 is of sufficient diameter to allow an animal to access fluid F held in the first chamber 22, and in the preferred embodiment is approximately five times larger than the flow aperture 24 of partition 20.

 The frusto-conical wall of housing 30 forms an internal downturned flange 32 that extends partially into the first chamber 22. An external stepped
25 flange 33 extends down to the base 10, thereby forming the outer edge of housing 30. The internal downturned flange 32 and the external stepped flange 33 together form an inverted channel 34 in the housing 30. Also, an inverted u-

shaped mating groove 35 is provided in the stepped flange 33 for coupling with the outermost upstanding member of u-shaped mating groove 16 in peripheral ledge 15 of base 11. As noted above, this mating groove 16 also acts to hold mating flange 25 of partition 20. Extending from the outermost portion of the inverted u-shaped mating groove 35 is a flap 36 shaped to interlock with lip 17 in ledge 15, thereby providing a substantially fluid-impervious seal.

As can be appreciated from viewing Figure 2b, the above-referenced series of mating grooves 16, 35 and flanges 25, 33 advantageously provide the container 10 with a snap-fit assembly of simple construction and a substantially fluid-impervious seal. Specifically, the mating flange 25 of partition 20 is inserted in the U-shaped mating groove 16 of base 11, as indicated by the lower set of action arrows in Figure 2b. Housing 30 is fitted over partition 20 such that inverted U-shaped mating groove 35 couples with the U-shaped mating groove 16 of base 11 in an off-set position, as indicated by the upper set of action arrows in Figure 2b. The flap 36 in housing 30 is then snapped over the lip 17 extending from ledge 15 to complete the construction of the container 10.

As is shown in Figure 3a, after assembly, the container 10 is filled with the desired fluid F through the access aperture 31. As can be appreciated, the fluid flows downwardly along the frusto-conical wall 21 of the first chamber 22, through flow aperture 24, and into second chamber 23. As it is contemplated that the interfitting of the components of the container is such that a substantially fluid-impervious seal is formed, it may be necessary during filling to release air from the second chamber 23 through valve 18 to provide for smooth and unimpeded fluid flow. As previously noted, this valve 18 extends through the upstanding side wall 13 of base 11 into the second chamber 23 formed by partition 20. Filling is completed until a predetermined level of fluid F is reached in the first chamber 22, as can be viewed through access aperture 31.

In the horizontal position, the fluid F in the container 10 resides in an

equilibrium state between the first and second chambers 22, 23 and, thus, may be easily accessed by a thirsty animal through access aperture 31. As an animal imbibes the fluid F from the first chamber 22, the fluid level drops below the level of the flow aperture 24 thereby allowing the passage of air into the second chamber 23. As a result, fluid F then flows from the second chamber 23 into the first chamber 22 until an equilibrium state is again established. In this way, fluid F is always maintained in the first chamber 22 for consumption by the animal.

Additionally, if the container is subjected to lateral jarring from accidental bumping or kicking or if significant vibrations are created by vehicle travel or the like, the inverted frusto-conical wall 21 of partition 20 acts to negate fluid splashing. Specifically, the curvature of the frusto-conical wall 21 promotes a smooth wave flow in the fluid held in the first chamber 22 during lateral jarring, thereby maintaining the fluid intact and in the bottom center of first chamber 22. The internal downturned flange 32 of the housing 30 also prevents any stray or free drops of fluid from splashing from container 10.

Referring now to Figures 3b, 3c, and 3d, the splash and spill-resistant characteristics of the container 10 of the present invention are demonstrated. Specifically, as seen in Figure 3b, when the container 10 is tilted, the fluid F held in the first chamber 22 flows along the curve of the frusto-conical wall 21. Ideally, the wall 21 is provided with a specific degree of curvature such that the fluid F, primarily by virtue of its inherent surface tension, is inclined to maintain itself in a single body and flow along said curve to an equilibrium position. Although a numerous degrees of curvature will provide this or similar benefits, it has been found that the ideal fluid flow on inversion is provided by a curve with a degree of curvature substantially in the form of an inverted hyperbolic secant curve, although the use of other forms of secant-like curves, such as a tractrix, is also contemplated.

As is now realized, during the tilting of the container 10, fluid F flows

from a resting position in the first chamber 22 to the inverted channel 34 of housing 30. Similarly, the fluid F resting in equilibrium in the second chamber 23 flows around the annulus of base 11 to fill one side of the second chamber 23 formed by partition 20. As the seals between the components are impervious to fluid flow, it is now realized that no fluid will be lost through these connections at any stage of inversion.

Continuing the tilting motion until the container 10 is normal to the ground, fluid F flows from the first chamber 22 to the inverted channel 34 and from the high side of the second chamber 23 to the lower side. Again, the inherent surface tension of the fluid F, coupled with the curvature of the frusto-conical wall 21, causes the fluid to follow itself along the desired channels and into the desired positions. Also, not explicitly shown, but as can be appreciated, the fluid is also displaced laterally along the semi-annular inverted channel 34 and the annular second chamber 23 so as to avoid any overflow through the access aperture 31.

In the fully inverted position, the fluid F continues to laterally displace until a position of forced equilibrium is reached. The volume of fluid F previously contained in the first chamber 22 now fully rests in the inverted channel 34 of housing 30. Likewise, the volume of fluid F in the second chamber 23 now rests in the top portion of the chamber. Thus, as is now realized, the container 10 is completely and fully inverted and no fluid F is splashed or spilled outside of the container 10.

To right the container 10 from the inverted position, it is simply flipped over in any desired manner. The fluid F follows the same path as upon inversion until the respective equilibrium positions are reached; that is, the fluid in the inverted channel 34 flows along the curve of frusto-conical wall 21 into first chamber 22, and the fluid pooled in the top of the second chamber 23 returns to the bottom along the floor 12.

During inversion of the container 10, additional air may flow into the second chamber 23 through flow aperture 24. Due to the sealed nature of this chamber 23, air may cause a temporary equilibrium imbalance between the first and second chambers 22, 23, thus delaying the fluid F from returning to desired relative levels. Although no spillage is created by this delay, it may be found beneficial to use valve 18 to release any air that may cause this impeded flow and return some of the fluid F from the first chamber 22 to the second chamber 23.

As may now be realized, the ideal volume of fluid held in the first chamber 22 is limited to the maximum volume of the inverted channel 34 in housing 30. As the fluid level in the first chamber 22 is directly dependent on the level of fluid in the second chamber 23 due to the fact that the flow aperture 24 allows an equilibrium position to be established between these chambers, there is obviously a preferred volume of fluid held in the container for optimum performance. Ideally, the ratio of the preferred volume of the first chamber 22 to second chamber 23 is approximately 1:33. Of course, while maintaining this ratio, it is possible to vary the dimensions of container 10 to hold from several ounces of fluid to several gallons while retaining the splash and spill resistant characteristics. Furthermore, it is contemplated that the inverted channel 34 may be oversized to accommodate a greater volume of fluid without affecting the splash and spill-resistant characteristics of the container.

For smaller animals or for household pet use, the container 10 is preferably made of a lightweight plastic material, such as polyethylene or polypropylene. Containers formed of such materials by plastic working processes are well-known in the art. For larger animals, such as horses, the use of other, more durable materials, such as heavy-duty molded plastics, stainless steel or the like is contemplated. Also, forming the container 10 of disposable materials, such as styrofoam, waxed cardboard or the like, is also contemplated.

In summary, an improved splash and spill resistant container 10 for holding fluids for pet consumption is disclosed. A base 11 forms an open-top cavity that is divided into a first chamber 22 and a second chamber 23 by a partition 20. A housing 30 resting atop the partition 20 is provided with an access aperture 31 and an inverted channel 34. If the container 10 is filled with a fluid F and subjected to significant lateral jarring or if the container 10 is inverted, the novel design of the chambers 22, 23 prevents fluid F from spilling from the container 10. Furthermore, the container is ideally made of lightweight plastic materials and is provided in three sections, such that it may be easily disassembled, cleaned, and reassembled. Finally, a valve 18 is provided that allows fluid F to be emptied from the container 10.

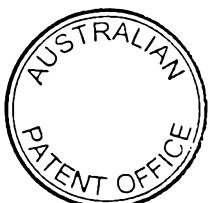
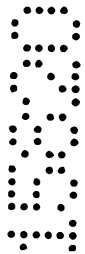
The foregoing description of a preferred embodiment of the invention has been presented for purposes of illustration and description. It is not intended to be exhaustive or to limit the invention to the precise form disclosed. Obvious modifications or variations are possible in light of the above teachings. The embodiment was chosen and described to provide the best illustration of the principles of the invention and its practical application to thereby enable one of ordinary skill in the art to utilize the invention in various embodiments and with various modifications as are suited to the particular use contemplated. All such modifications and variations are within the scope of the invention as determined by the appended claims when interpreted in accordance with the breadth to which they are fairly, legally and equitably entitled.

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Throughout this specification and the claims which follow, unless the context requires otherwise, the word "comprise", and variations such as "comprises" or "comprising", will be understood to imply the inclusion of a stated integer or step or group of integers or steps but not the exclusion of any other integer or step or group of integers or steps.

The reference to any prior art in this specification is not, and should not be taken as, an acknowledgment or any form of suggestion that that prior art forms part of the common general knowledge in Australia.

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In the Claims:

1. A splash and spill-resistant container for holding a fluid, comprising:

a base having a side wall defining a cavity for holding the fluid;

a partition mating with said side wall of said base and dividing said cavity into first and second chambers, said partition having a flow aperture permitting fluid communication between said first and second chambers;

a housing overlying said partition and said base, said housing having an inverted channel and an aperture for accessing the fluid in said first chamber.

2. The container according to Claim 1, wherein said partition is inverted and frusto-conical and the degree of curvature of said inverted frusto-conical partition is substantially in the form of an inverted hyperbolic secant curve.

3. The container according to Claim 1, wherein said partition is inverted and frusto-conical and the degree of curvature of said inverted frusto-conical partition is substantially in the form of a tractrix.

4. The container according to Claim 1, wherein said base has a substantially concave floor.

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5. The container according to Claim 1, wherein said side wall is upright and terminates in a ledge extending along the periphery of said base.

6. The container according to Claim 5, wherein a mating groove is formed in said ledge.

7. The container according to Claim 6, wherein said partition is provided with an external mating flange for insertion in said mating groove.

8. The container according to Claim 7, wherein said housing is provided with a stepped flange having an inverted groove for insertion in said mating groove in said side wall of said base.

9. The container according to Claim 8, wherein said stepped flange is provided with a flap for coupling with said ledge, whereby said flap forms a seal between said housing, said partition, and said base.

10. The container according to Claim 4, wherein said floor of said base is provided with an peripheral support flange for elevating said floor above ground level.

11. The container according to Claim 5, wherein a valve is provided in said upright side wall of said base.

12. The container according to Claim 1, wherein said inverted channel for catching fluid spills has a volume A and said first chamber has a volume B wherein $A \geq B$.

13. A splash and spill-resistant container for holding a fluid, comprising,
a base having a floor and an upstanding side wall defining an open-top cavity;
a first frusto-conical section mating in sealing engagement with said upstanding side wall of said base, said first frusto-conical section having a centrally-located flow



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aperture; and

a second frusto-conical section mating in sealing engagement with said upstanding side wall of said base, said second frusto-conical section having a centrally-located access aperture.

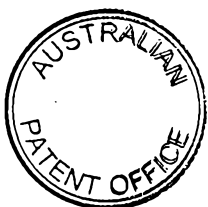
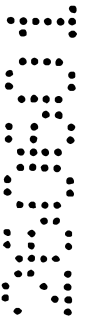
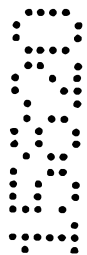
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14. The container according to Claim 13, wherein the curvature of said first frusto-conical section is substantially in the form of an inverted hyperbolic secant.

15. The container according to Claim 13, wherein the curvature of said first frusto-
10 conical section is substantially in the form of a tractrix.

16. The container according to Claim 13, wherein the second frusto-conical section is formed in the shape of an annular ring defining an inverted channel.

15 17. A splash and spill-resistant container for holding a fluid, comprising:
a base having a floor and a slide wall terminating in a peripherally-grooved ledge,



- 5 a valve extending through said side wall of said base;
 an inverted frusto-conical partition having a centrally-
located flow aperture and a peripheral flange, said peripheral flange mating with
said grooved ledge; and
 a housing having a centrally-located access aperture
10 defining an internal flange and an external flange, said external flange coupling
to said grooved ledge of said base.



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18. A splash and spill-resistant container for holding a fluid,
comprising:

 a body having an upstanding side wall forming an interior
chamber, said side wall terminating in an inverted channel forming a flange, said
flange defining an access aperture;

 a partition mating with said upstanding side wall of said
body, said partition dividing said interior chamber of said body into a first
chamber and a second chamber, each of said chambers being in fluid
communication through a flow aperture in said partition.



19. The container according to Claim 18, wherein said
partition is inverted and frusto-conical and is substantially in the form of an
inverted hyperbolic secant curve.

20. The container according to Claim 18, wherein said
partition is inverted and frusto-conical and is substantially in the form of a
tractrix.

21. The container according to Claim 18, wherein said
inverted channel has a volume A and said first chamber has a volume B wherein



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$A \geq B$.

22. The container according to Claim 21, wherein said second chamber has a volume C wherein the ratio of the volume of said first chamber B to the volume of said second
5 chamber C is approximately 1:33.

23. A splash and spill-resistant container for holding a fluid, comprising:
a body defining an interior chamber for holding the fluid, said interior chamber including a first spill-catching subchamber and a second spill-catching subchamber, said
10 body further including an access aperture for permitting the animal to access the fluid hold in said interior chamber,

whereby upon inversion of said container said first and second chambers prevent appreciable fluid spillage.

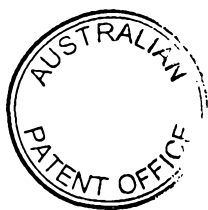
15 24. A splash and spill-resistant container substantially as hereinbefore described with reference to the accompanying drawings.

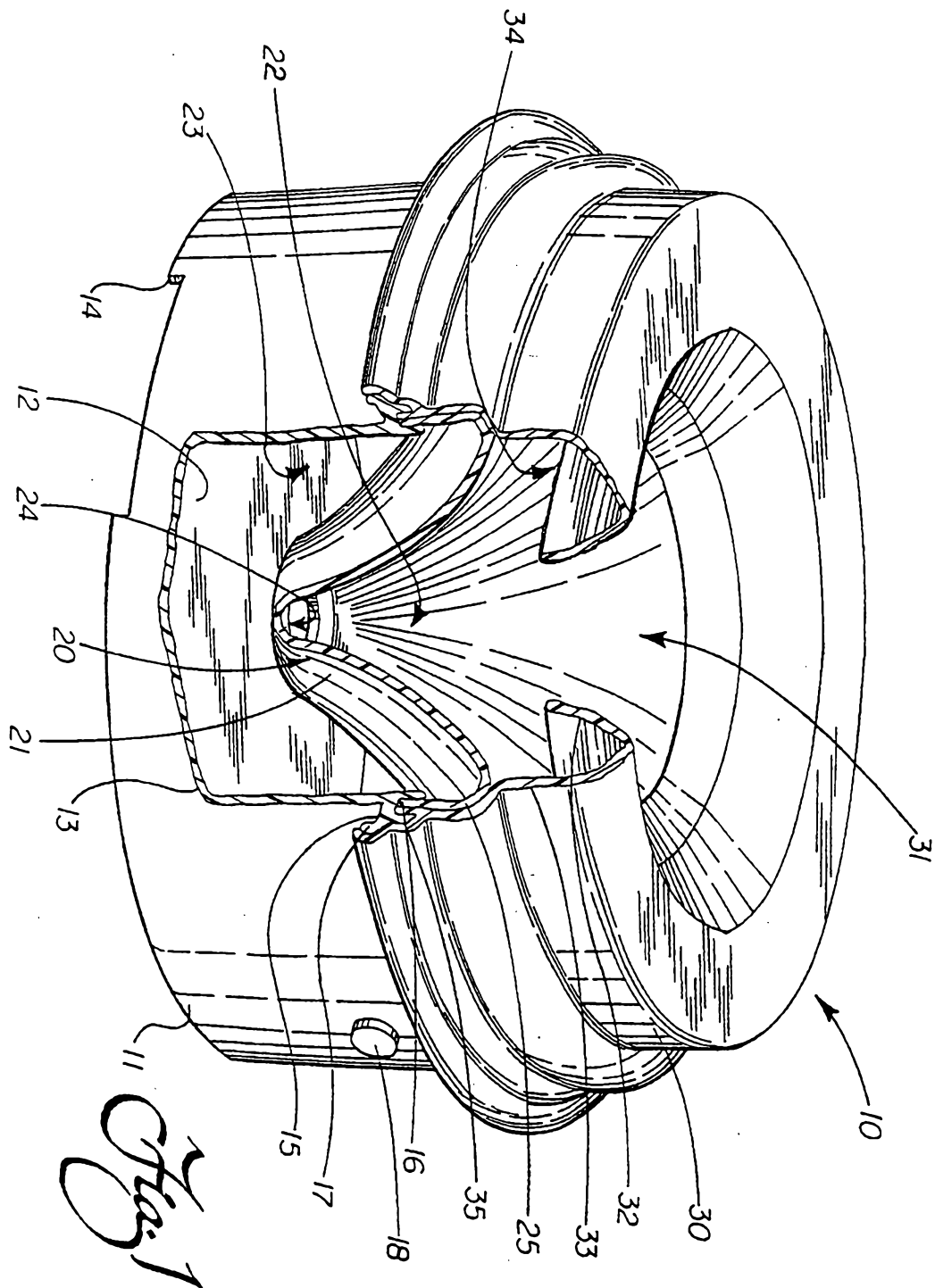
Dated this 25th day of June, 2001

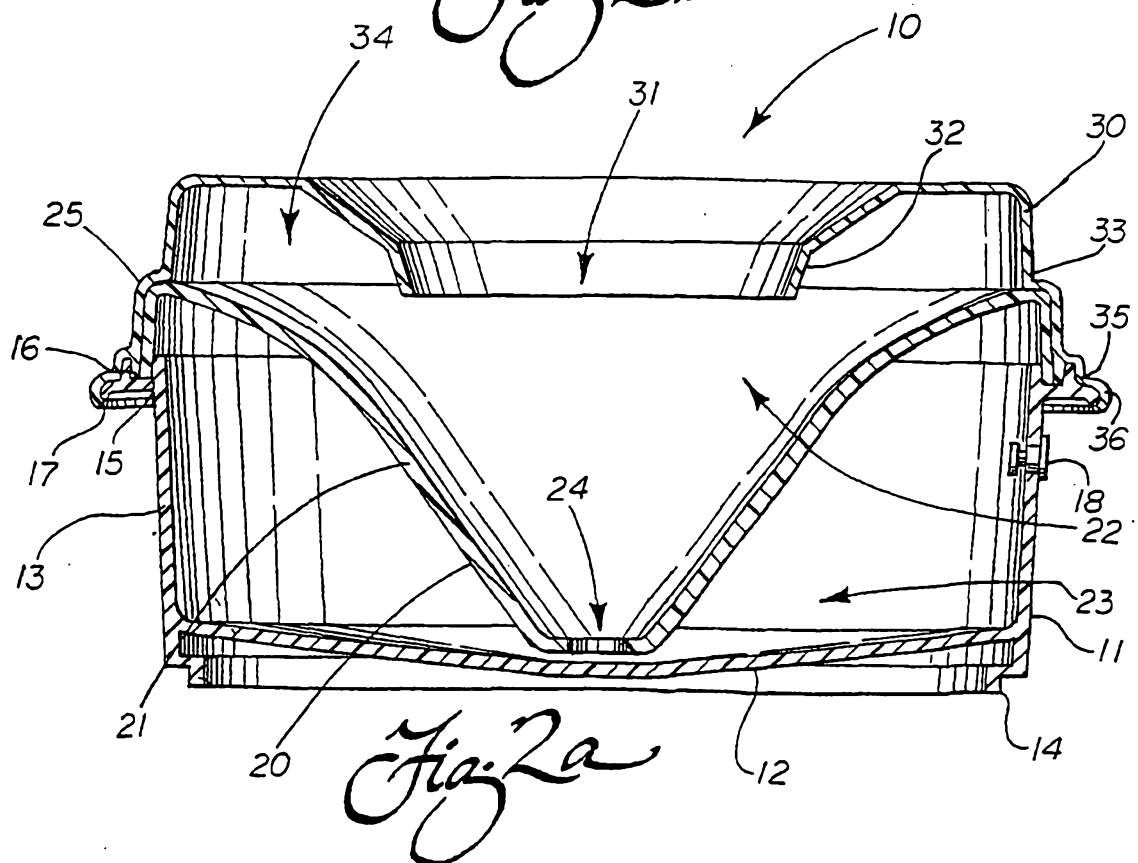
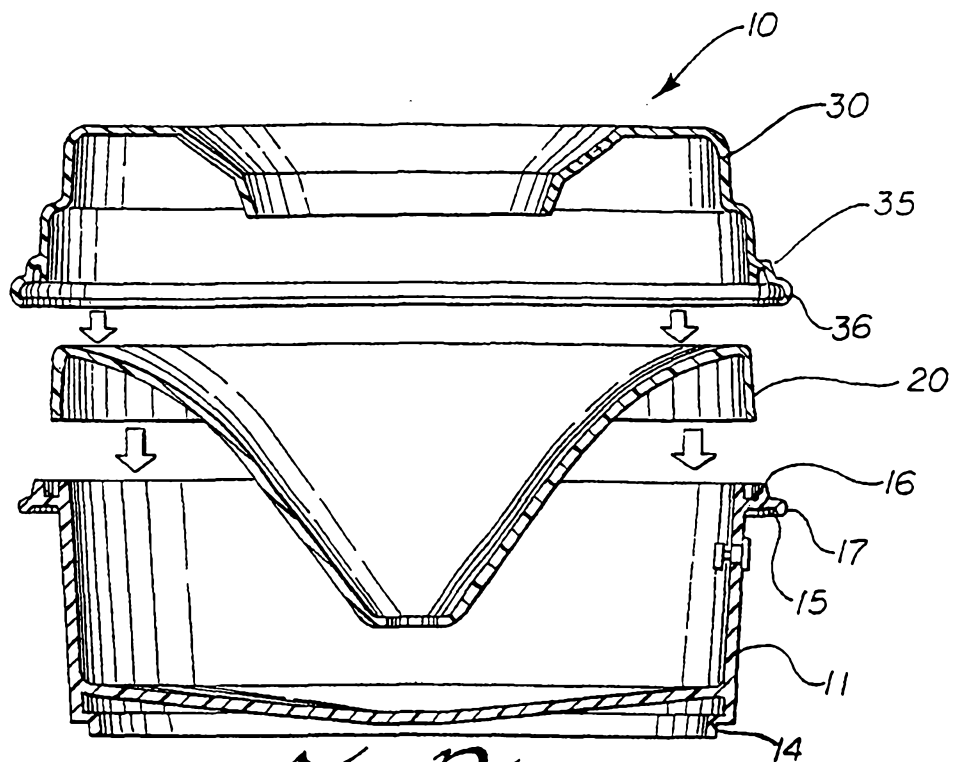
CHARLES L. PELSOR

20 By Its Patent Attorneys

DAVIES COLLISON CAVE







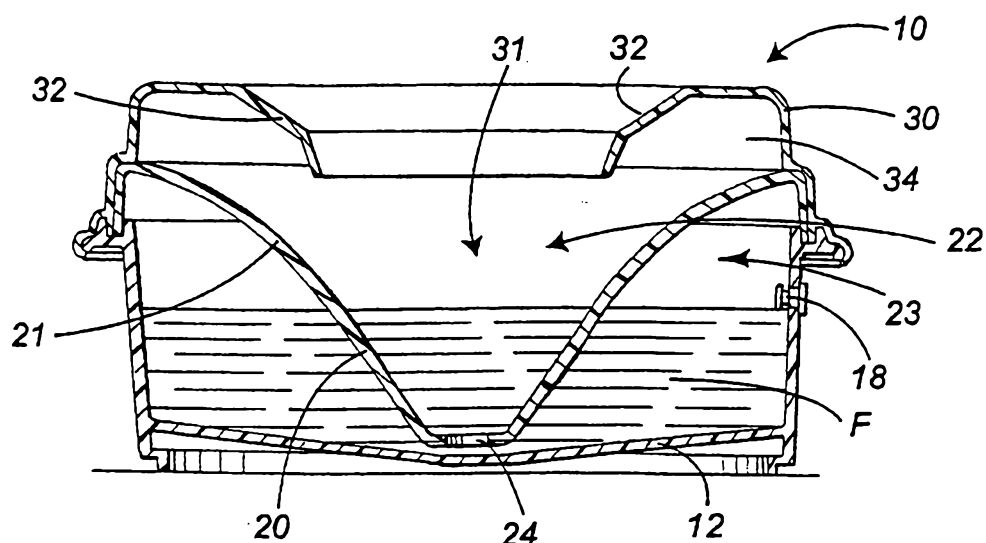


Fig. 3a

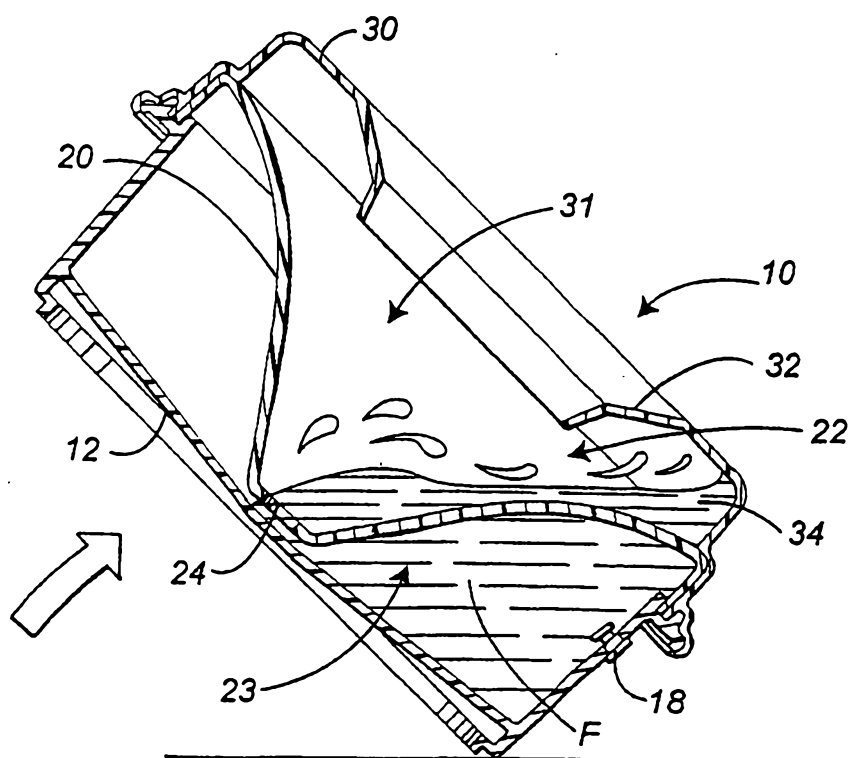


Fig 3b

