

J.M.

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



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Delegatura de Propiedad Industrial
División de Nuevas Creaciones

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SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
INVENTARIO

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52. CLASIFICACION INTERNACIONAL: B67B 7/46

71. SOLICITANTE: DAIRY CREST LIMITED

DOMICILIO: Claygate House, Littleworth road, Esher, Surrey KT
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22. BOGOTA, D.C., DE MAYO DE 2011

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Act. 411 PRESENTACION Folios: 50

PETITORIO - FORMULARIO I
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ENTRADA EN FASE NACIONAL

SOLICITUD DE:

1

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Patente de Invención.

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Patente de Modelo de Utilidad.

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Capítulo I.

☐

Capítulo II.

2

SOLICITANTE
(71)

Nombre: DAIRY CREST LIMITED

Dirección: Claygate House, Littleworth Road,
Esher, Surrey KT 10 9PN (GB)

Nacionalidad o Domicilio: INGLESA

Lugar de Constitución: REINO UNIDO

Teléfono: _____

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C.E.

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Otro

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Cual _____

Número _____

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Número 79.376.996 Bta
TP 135.799

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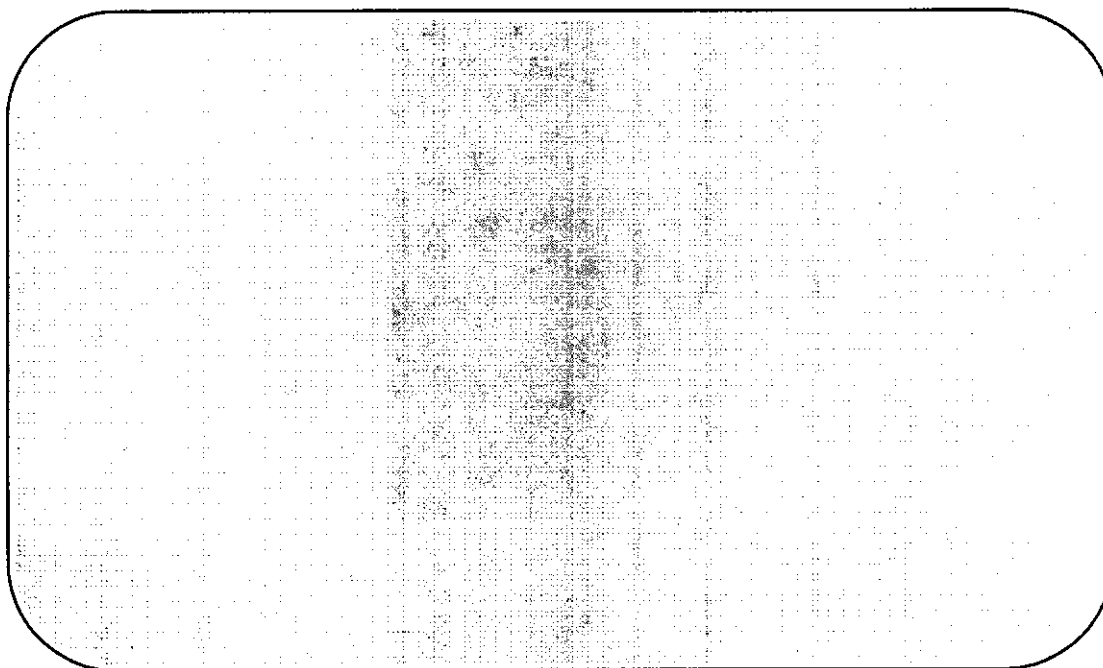
Fecha 20 de Mayo de 2011

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2011-05-24
12h50.*

☐ **ANEXOS**

- ☒ Comprobante de pago de la tasa de presentación de la solicitud.
- ☐ Documento que acredita la existencia y representación legal cuando el solicitante sea persona jurídica.
- ☐ Poderes, si fuere el caso.
- ☐ Documento de cesión del inventor al solicitante o a su causante.
- ☐ Declaraciones.
- ☒ Copia de la solicitud internacional. (Resumen, descripción, reivindicaciones, dibujos).
- ☒ Traducción de la solicitud internacional al castellano. (Resumen, descripción, reivindicaciones, dibujos).
- ☐ Copia del examen preliminar internacional efectuado por la Autoridad Internacional de Examen Preliminar (IPEA).
- ☐ Traducción del examen preliminar internacional efectuado por la IPEA.
- ☐ De ser el caso, copia del contrato de acceso.
- ☐ De ser el caso, documento que acredite la licencia o autorización de uso de conocimientos tradicionales de las comunidades indígenas.
- ☐ De ser el caso, certificado de depósito del material biológico.
- ☒ Arte final 12 x 12.
- ☐ De ser el caso, información sobre otras solicitudes de patente o títulos obtenidos en el extranjero por el mismo titular o su causante, relacionadas parcial o totalmente con la invención de esta solicitud.
- ☐ De ser el caso, modificaciones efectuadas a la solicitud internacional.
- ☒ Otros. Búsqueda Internacional

☐ **FIGURA CARACTERÍSTICA:**



☐ Solicito la concesión de la patente,

NOMBRE: J. IAN RAISBECK

FIRMA:

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Instrucciones para el diligenciamiento del presente formulario, ver reverso de esta página.

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SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

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*** Conceptos Pagados ***

CANT.	RENTISTICO	CONCEPTO	Vr. LINDITARIO	Vr. CONCEPTO
1	50005-01-01 SOLICITUDES	1 TRAMITES DE SOL. DE PATENTE DE INVENCIÓN	571.000.00	571.000.00
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SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



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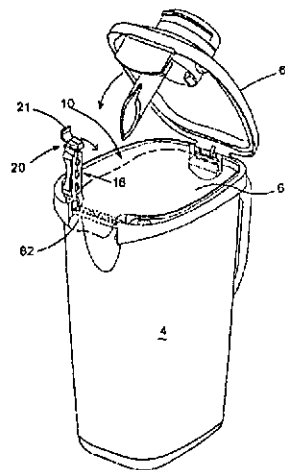


FIG. 4

(57) Abstract: A container (2) for dispensing liquid such as milk, from a bag (60), comprises a clamp (12, 14) to secure an ear (62) of the bag to the container rim (7), and a lid (6) with a piercing member (38) to dispense the liquid, which pierces the bag adjacent the clamp as the lid is closed.

WO 2010/092332 A1

CONTAINER

This invention relates to a container, particularly a jug, for use in dispensing liquids from a flexible bag or pouch.

5

Liquid such as milk may be transported and sold to consumers in disposable, flexible bags. These bags have the advantage that they use substantially less plastics material than the rigid plastic containers commonly used for this purpose. However, it is difficult to dispense liquid directly from flexible bags. It has

10 therefore been desirable to decant the liquid by cutting off an ear of the bag, and pouring the liquid from the bag, for example into a re-usable rigid container or jug. This can be difficult to achieve without spillage. Alternatively, the bag may be placed in a jug with an ear of the bag cut off, such that the jug assists in holding the bag during pouring directly from the bag. However this also causes
15 problems with spillage from the bag, which is "loose" in the jug, and the "pour" from the bag can be highly variable dependant on how accurate the cut off is. Also the bag cannot be closed once it has been cut open, which can lead to deterioration of the product inside.

20 Various re-usable containers have been proposed for accepting a flexible bag, making an aperture in the bag, and dispensing the liquid from the aperture. Some such arrangements include a cutter member for making the aperture, and these arrangements usually push down on the bag within the container so as to hold it in place firmly enough to be cut. A problem with such an arrangement is that the
25 contents of the bag are under some pressure, and tend to spurt out upon cutting.

Our co-pending application no GB0715660.7 discloses a container in which opposing ears of the bag are clamped between the body and lid so as to hold the top of the bag taut. A piercing member may then be pushed into the bag. Whilst

the arrangement works well, it is difficult for a user to hold both ears over the edges of the jug body whilst simultaneously closing the lid to clamp the bag.

According to the present invention, there is provided a container for dispensing
5 liquid from a flexible bag, the container comprising: a body having an opening for accepting the bag, the body being configured to be engageable with an upper portion of the bag adjacent the opening for securing the bag to the body; a lid for the opening; and a piercing member communicating with an aperture for dispensing the liquid, the piercing member being movable to be introduced into
10 the container to pierce the bag adjacent the said upper portion of the bag.

Thus the bag may be secured to the body before closing the lid, enabling the user more easily to ensure the bag is properly secured.

15 Preferably the piercing member is associated with the lid, for example mounted in the lid. Thus, the piercing member may be introduced into the container as the lid is closed, removing the need for a separate step of pushing the piercing member into the bag.

20 The opening may conveniently be an open top of the body. Preferably, the body portion is engageable with the bag by means of a clamp for holding a part of the upper portion of the bag, such as an ear of the bag. The clamp is conveniently arranged at or adjacent the rim of the opening. Additionally the lid may be attached to the body by a hinge, and the body and the lid may each comprise
25 cooperating engagement members for securing the lid to the body, which may for example be provided opposite the hinge.

Thus a bag may be placed in the body portion, and one ear at the top of the bag may be pulled over the rim and clamped in position. The lid may then be closed
30 over the bag and fastened to the body.

The clamp may comprise textured cooperating surfaces, for increasing the frictional engagement with the bag. Thus when the piercing member pierces the bag, the tendency of the bag to be pulled out of the clamp may be reduced.

5

The piercing member may be mounted closely adjacent an edge of the lid, conveniently adjacent the side which is arranged to be adjacent the clamp, and opposite the hinge when the lid is attached to the body. The piercing member is conveniently a tapered end of a spout, which may for example be tubular, and the
10 opposite end of which may be open to form the dispensing aperture. The spout may be provided with sealing formations such as annular ridges to facilitate sealing of the aperture created in the bag with the piercing member.

The taper may extend from a piercing point closer to the hinge, up to an opposite
15 region close to the edge of the container clamp. Thus the closing action of the lid tends to pull the bag away from the clamp with the piercing point piercing the bag, and stretch the aperture around the spout.

The spout may be mounted in a spout body fitting into a recess in the lid. The
20 open end of the spout may be provided with a movable cover member, such as a hinged cover for protecting the spout when not in use and sealing the contents of the bag. The spout body may be removably mounted in an aperture in the lid or lid recess, such that it may be removed for cleaning, or may optionally be pushed through the aperture after closing the lid, in order to pierce the bag.

25

The invention also comprises a method of dispensing liquid from a flexible bag comprising: placing the bag in a rigid container body through an opening; securing an upper part of the bag to the body such that it is held above the remainder of the bag; closing the opening with a lid and piercing the upper part of

the bag with a piercing member communicating with an aperture for dispensing the liquid.

In order that the invention may be more readily understood, reference will now be made to the accompanying drawings in which:

Fig. 1 is a perspective view of a container according to one embodiment of the invention;

10 Figs. 2 and 3 are perspective and cross-sectional side views respectively of the container of Fig. 1, with the lid open;

Figs. 4 and 5 are perspective views of the container of Fig. 1 with a bag inserted;

15 Figs 6 and 7 are cross-sectional views of the container of Fig. 1 with a bag inserted therein; and the lid closed.

Referring to Fig. 1, the liquid dispensing container 2 is in the form of a jug, having a body portion 4, a lid 6 and a handle 5. As can be seen from Fig. 2, the lid 20 6 is arranged to cover a generally rectangular opening 10 at the top of the container body 4. At a first side 9, the lid 6 is joined to a corresponding first side 5 of the opening 10 in the body 4 by a hinge 8. At the opposite second edge 11, the lid is provided with a downwardly extending plate 24 having a ridge 26. The ridge 26 is configured to fit over a pair of cooperating detent members 28 25 extending downwardly of the body 4 at opposite ends of an inward recess 27 in a rim 29 of the corresponding opposite second edge 7 of the opening 10. The plate 24 is resilient so as to snap fit onto the body to secure the lid onto the body.

Also on the second edge 7 of the opening 10, the body is provided with a clamp in 30 the form of a textured clamp surface 12, and a movable clamp member 14. The

clamp surface 12 is slightly downwardly recessed of the rim 29. The clamp member 24 has a corresponding textured lower surface 16, and is attached to at one end to the rim 29 by a hinge 18. The textured surfaces in this case comprise apertures 30 in the clamp surface 12 and corresponding projections 32 on the

5 clamp member 14. At the opposite end, the clamp member 14 is provided with a clamp lever 20 for fitting into a lever aperture 22 adjacent the corresponding end of the clamp surface 12. The lever 20 is resilient so as to snap fit into the aperture 22, and is provided with a lever arm 21 for releasing the snap fit to undo the clamp.

10

Referring also to Fig. 3, the lid includes a shaped indent 34 having an aperture 36 which is sized to receive a piercing member in the form of a tubular spout 38. The first end 40 of the spout 38 is tapered to provide a piercing point. The indent 34 is closely adjacent the second edge 11 of the lid. The spout body 44 is held within

15 in the indent 34 by resilient legs 54 for extending through apertures 56 in the lid indent 34 and snap-fitting into place. The body 44 is oriented such that the spout 38 is close to the edge of the indent 34 so that the spout is closely aligned when the lid is closed with a portion of the bag held in position by the clamp. The spout 38 tapers away from that edge from an outer side 39 towards the piercing point 40

20 at the opposite inner side of the spout 38.

The second end of the tube 38 forms a dispensing aperture 44 within a larger generally circular spout body 46, having a hinged cover 48. The cover 48 may include a flange 50 for use in opening the cover, and a spout seal 52 for fitting

25 within the spout 44 when closed to seal the contents of the bag.

The handle 5 is removably mounted to the body 4 below the hinge 8. In this example the handle 5 has a grip portion 64 and a flush portion 66 for lying adjacent the body. The handle 5 has upwardly extending tabs 68, 70, 72 at the top,

30 at the bottom of the grip portion 64, and at the bottom of the flush portion 66.

Each of the tabs 68, 70, 72 is shaped to fit closely within corresponding narrow cavities 74, 76, 78 formed in the side 80 of the body beneath the hinge 8. Thus the user may slide the handle upwardly to fit it onto the body, with the weight of the container retaining it.

5

As shown in Figs. 4 and 5, in use, a flexible bag or pouch 60 is placed into the body 4 of the container via the opening 10. The user grips an upper corner or ear 62 of the bag and stretches it over the clamp surface 12. In this position, the clamp member 14 is lowered, as indicated by the arrow in Figure 4, until the underside surface 16 meets the clamp surface 12, and the clamp lever 20 is pushed down into the clamp aperture 22 and snap-fits in. This holds the ear of the bag securely in position between the cooperating textured surfaces 12, 16, as shown in Figure 5.

15 Referring also to Figures 6 and 7, the ear 62 of the bag 60 is thus compressed between the textured surfaces, and frictionally engaged. The lid 6 may then be closed, as indicated by the arrow in Figure 6, such that the sharp end 40 at the inner side of the spout 38 pierces the bag 60 to make a hole immediately adjacent the ear 62.

20

As the lid 6 continues to close, the inner side of the spout 38 pulls the bag taut and away from the clamp. The textured surfaces oppose the tendency for the bag to be pulled out from the clamp when the piercing member 38 is pushed down. The aperture thus formed in the bag 60 stretches around the tube 38 allowing the outer side 39 of the spout 38 to be received, and seals against it. The contents of the bag may then be dispensed via the dispensing aperture 44. When the lid is closed, the ridge 26 of the plate 24 engages under the detents 28 to secure the lid 6 to the body 4.

25

It can be seen that, since the spout is close to the second side 82 of the body opposite the handle 5, the last of the contents of the bag 60 is able to drain out of the spout 38. When the bag is empty, the plate 24 is released by pulling it away from the body to release the ridge 26 from the detents 28. The lid may then be
5 opened, such that the spout 38 is withdrawn from the bag. The clamp may be undone by pushing in the clamp lever arm 21 to release the lever 20 from the aperture 22 in the body. The clamp member 14 may then be lifted, and the bag removed and discarded.

Claims:

1. A container for dispensing liquid from a flexible bag, the container comprising: a body having an opening for accepting the bag, the body being
5 configured to be engageable with an upper portion of the bag adjacent the opening for securing the bag to the body; a lid for the opening; and a piercing member communicating with an aperture for dispensing the liquid, the piercing member being movable to be introduced into the container to pierce the bag adjacent the said upper portion of the bag.
- 10 2. A container for dispensing liquid from a flexible bag as claimed in claim 1, in which the piercing member is associated with the lid.
3. A container for dispensing liquid from a flexible bag as claimed in claim 1
15 or 2, in which the opening is an open top of the body.
4. A container for dispensing liquid from a flexible bag as claimed in any preceding claim, in which the body is engageable with the upper portion of the bag by means of a clamp for holding a part of the upper portion
20
5. A container for dispensing liquid from a flexible bag as claimed in claim 4, in which the clamp is arranged at or adjacent a rim of the opening.
6. A container for dispensing liquid from a flexible bag as claimed in claim 4
25 or 5, in which the clamp comprises textured cooperating surfaces, for frictionally engaging the bag.
7. A container for dispensing liquid from a flexible bag as claimed in any preceding claim, in which the lid is attached to the body by a hinge.

30

8. A container for dispensing liquid from a flexible bag as claimed in any preceding claim, in which the body and the lid comprise cooperating engagement members for securing the lid to the body.
- 5 9. A container for dispensing liquid from a flexible bag according to any preceding claim, in which the piercing member is mounted at a position closely adjacent an edge of the lid.
- 10 10. A container for dispensing a liquid from a flexible bag as claimed in claim 9, in which the edge adjacent the piercing member is substantially opposite the hinge.
- 15 11. A container for dispensing liquid from a flexible bag according to any preceding claim, in which the piercing member is a tapered end of a spout, the opposite end of which forms the dispensing aperture.
- 20 12. A container for dispensing liquid from a flexible bag as claimed in claim 11, in which the taper extends from an outer part of the spout adjacent the edge of the lid down towards a piercing point on an opposite inner part of the spout closer to the hinge.
- 25 13. A container for dispensing liquid from a flexible bag according to claim 11 or 12, in which the spout is mounted in a removable spout body arranged to fit into a recess in the lid.
14. A container for dispensing liquid from a flexible bag according to claim 11, 12 or 13, in which the aperture of the spout is provided with a movable cover member.

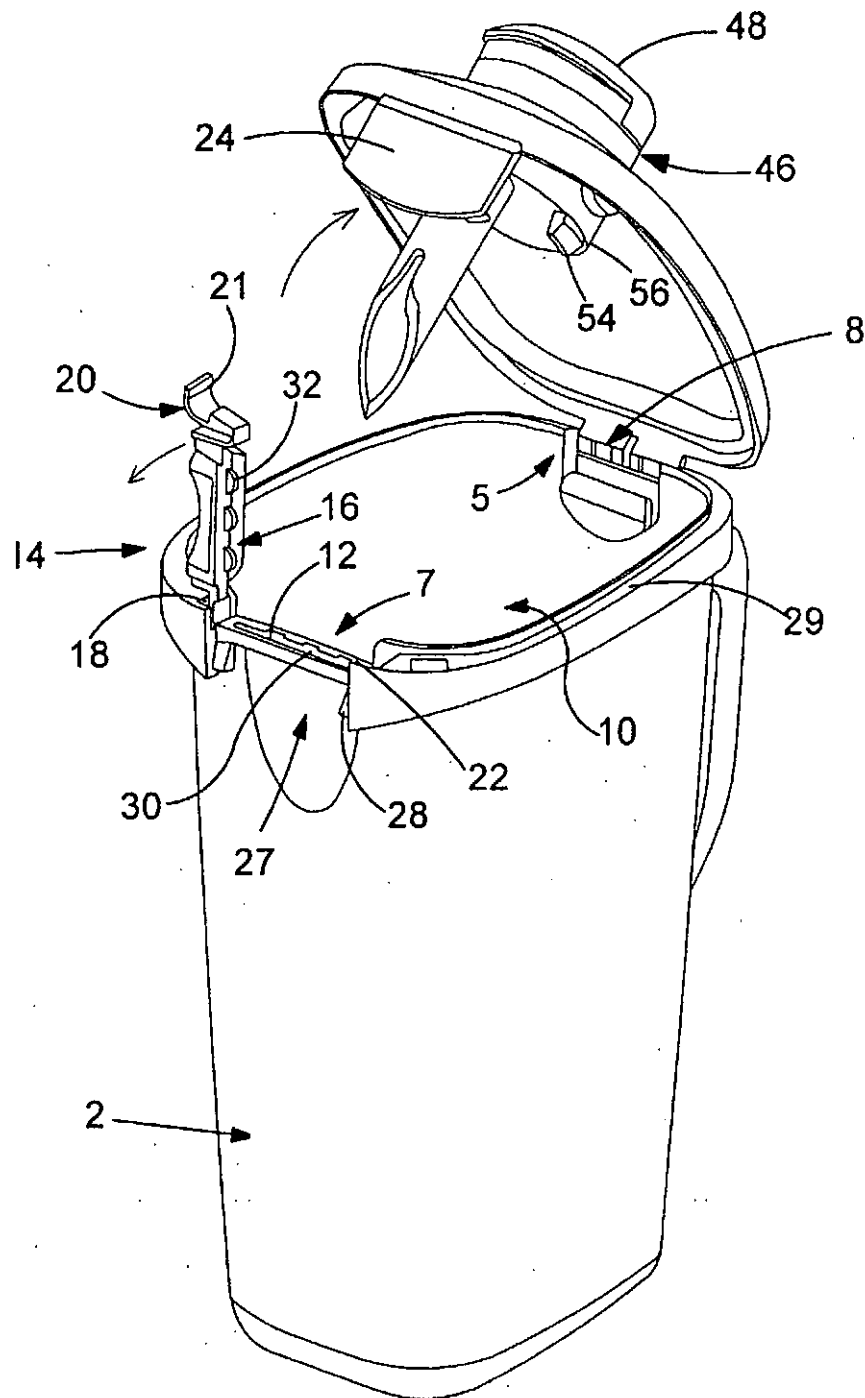


FIG.2

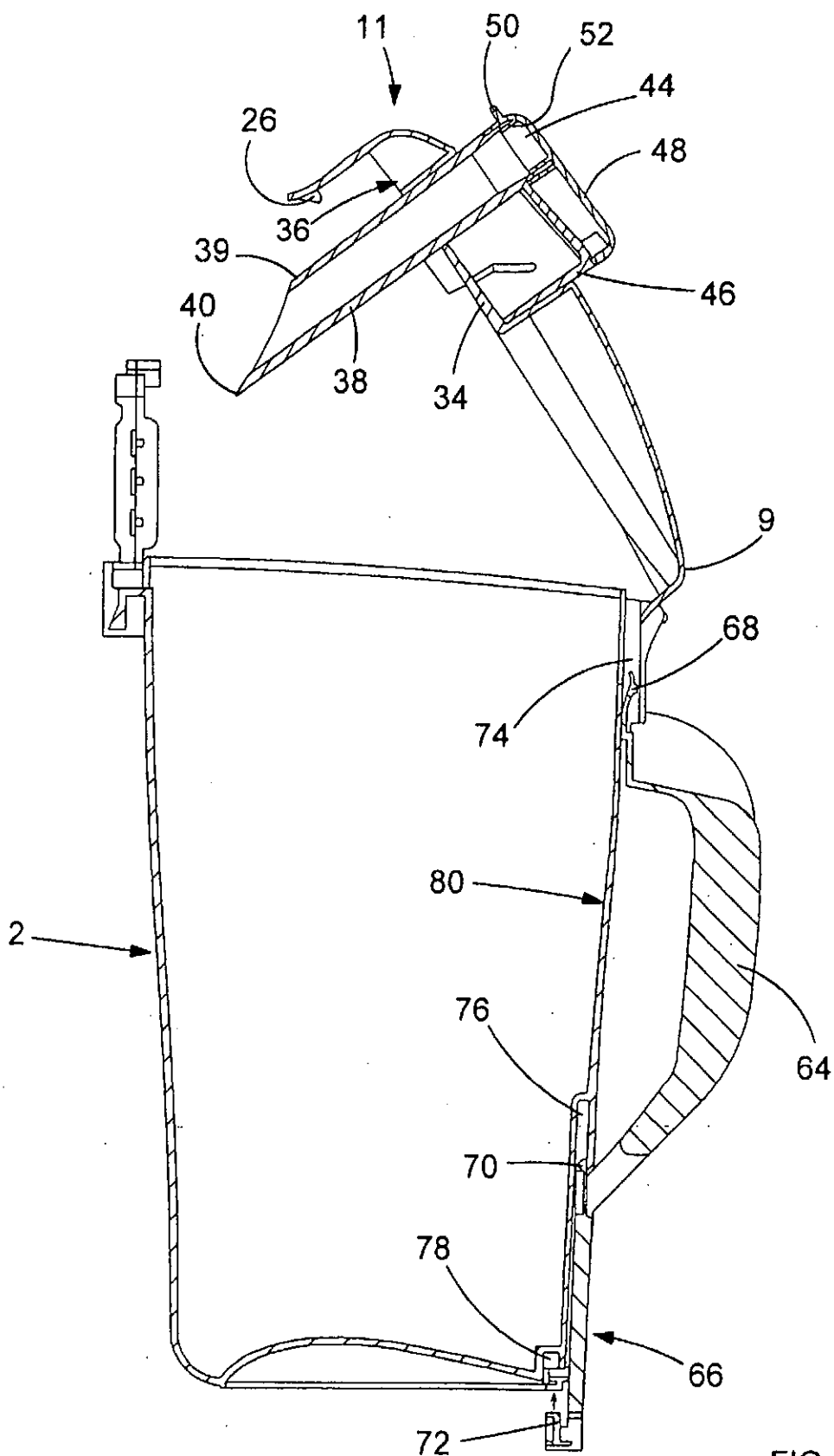


FIG.3

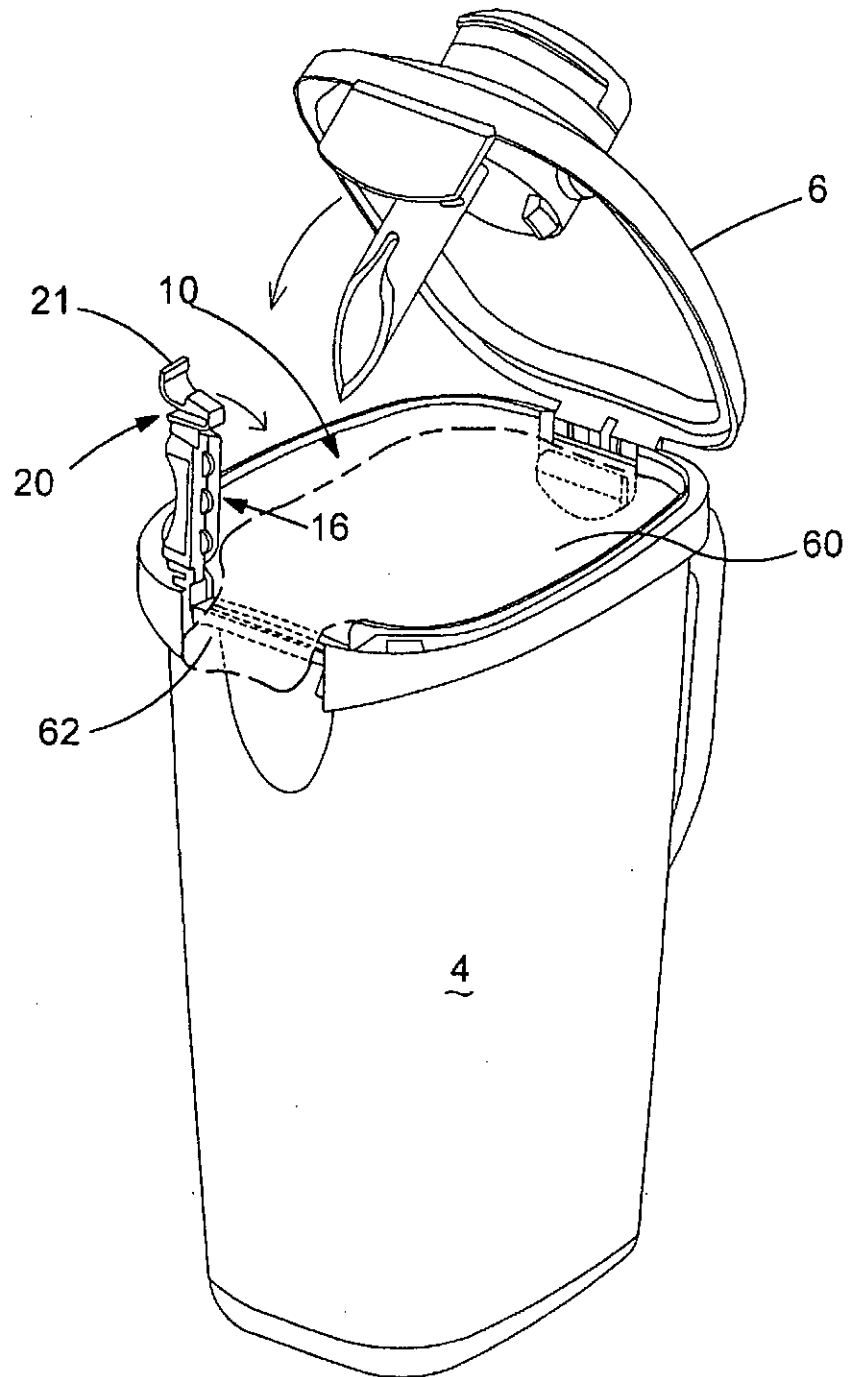


FIG.4

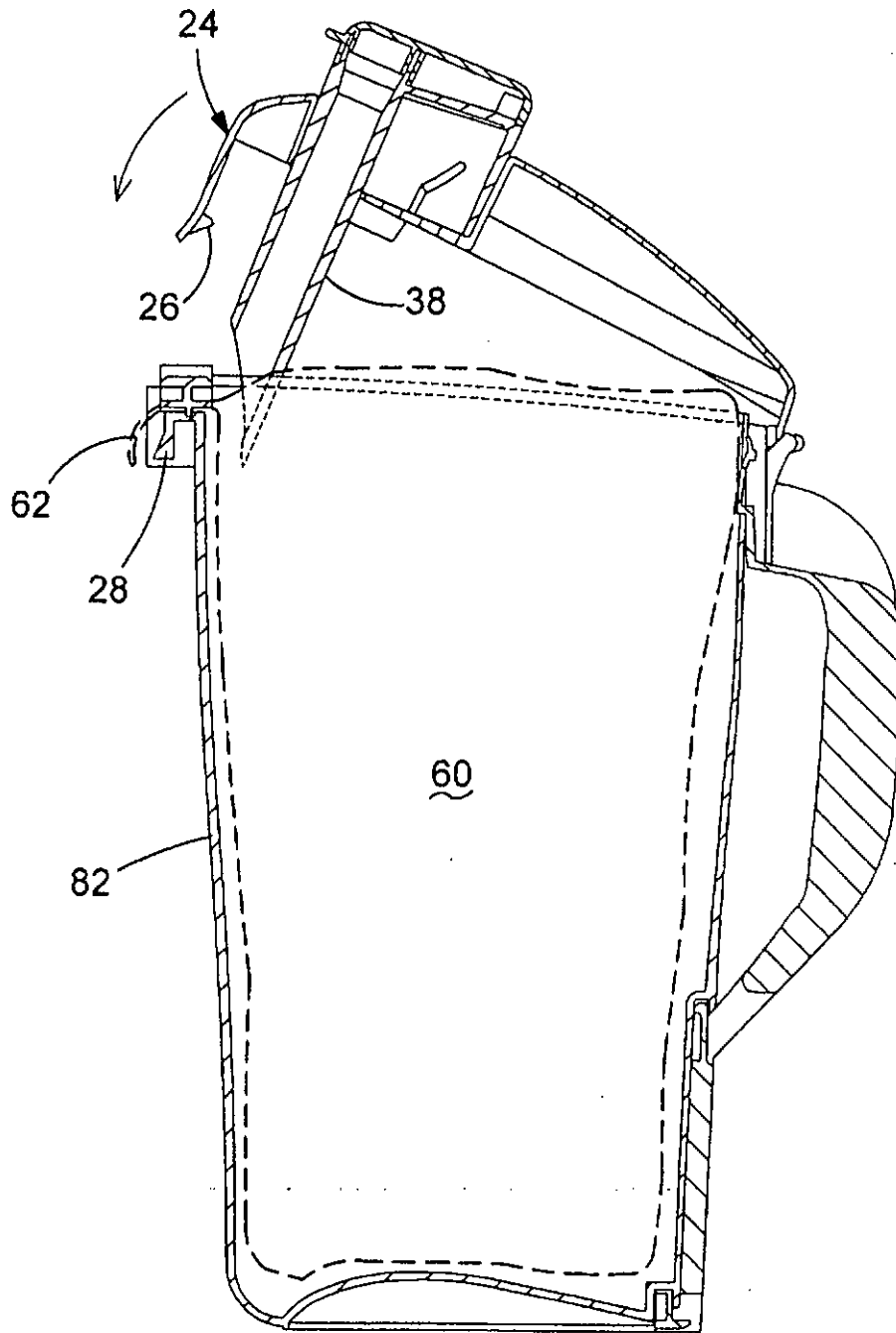


FIG.6

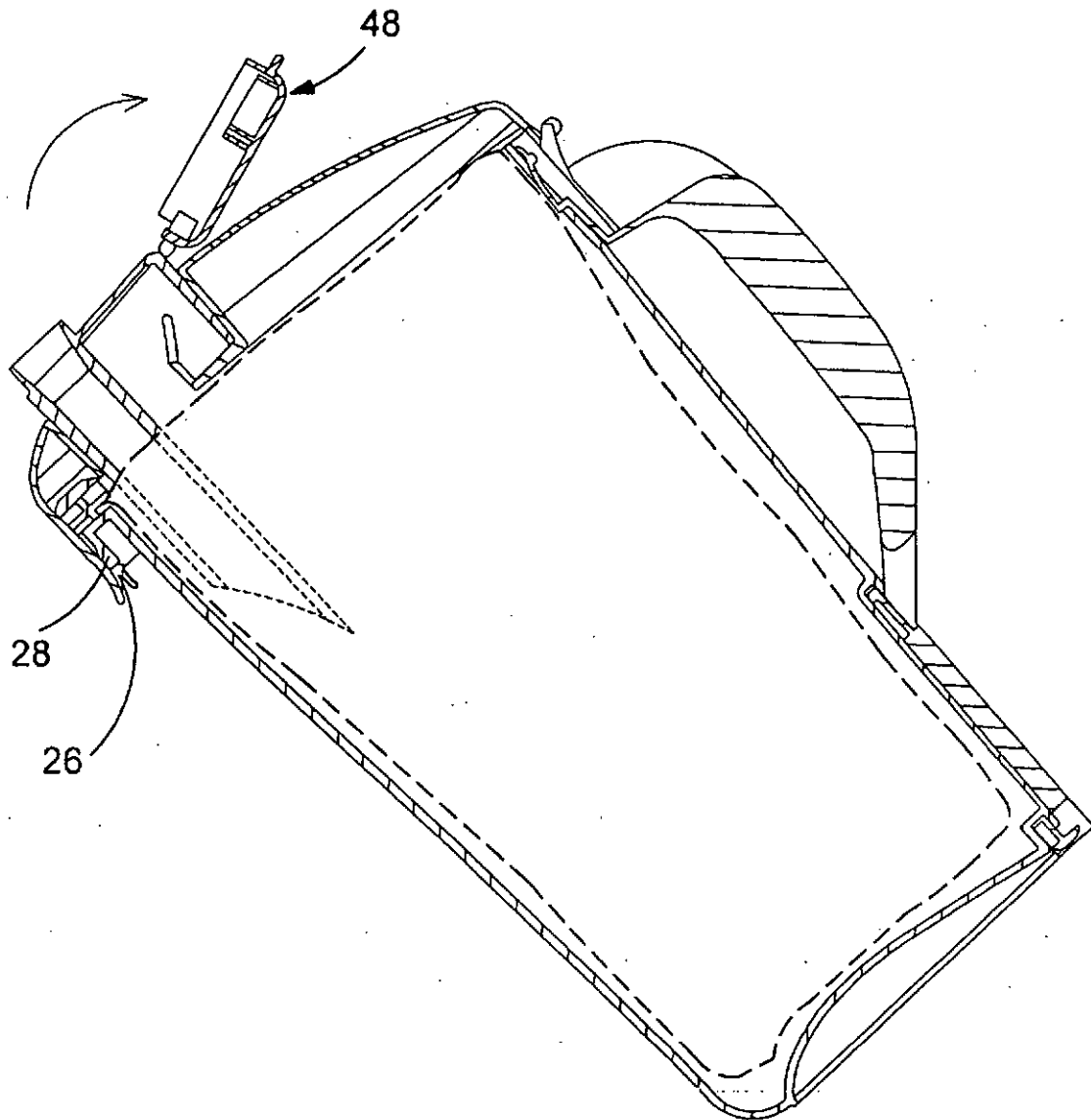


FIG.7

INTERNATIONAL SEARCH REPORT

International application No
PCT/GB2010/000225

A. CLASSIFICATION OF SUBJECT MATTER
INV. B67B7/46
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
B67B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 429 273 A (KING DAVID C [CA] ET AL) 4 July 1995 (1995-07-04) column 6, line 34 - column 7, line 14; figures 1-11	1-5, 7-10,15
X	WO 92/19528 A1 (DU PONT CANADA [CA]) 12 November 1992 (1992-11-12) page 6, line 1 - line 10; figures 1,2	1-5,8,15
X	US 6 651 845 B1 (SCHROEDER CHARLES W [US]) 25 November 2003 (2003-11-25) column 2, line 40 - column 3, line 28; figures 1-7	1-5,8, 11,15
X,P	EP 2 022 750 A1 (DAIRY CREST LTD [GB]) 11 February 2009 (2009-02-11) cited in the application the whole document	1-6,8,9, 11,13-15
-/-		



Further documents are listed in the continuation of Box C.



See patent family annex.

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Date of the actual completion of the International search

1 June 2010

Date of mailing of the International search report

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Name and mailing address of the ISA/

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Wartenhorst, Frank

INTERNATIONAL SEARCH REPORT

International application No
PCT/GB2010/000225

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2 046 226 A (GABR S Z M) 12 November 1980 (1980-11-12) page 2, line 4 - line 20; figures 1,2 -----	1,10,15
A	US 4 265 372 A (WAINBERG LAWRENCE) 5 May 1981 (1981-05-05) column 4, line 58 - column 6, line 41; figures 1-8 -----	1,10,15
A	EP 0 916 616 A1 (HENKEL KGAA [DE]) 19 May 1999 (1999-05-19) paragraphs [0010] - [0014]; figures 1-3 -----	1,10,15
A	WO 92/04274 A1 (NIELSEN ALF [DK]) 19 March 1992 (1992-03-19) abstract; figures 1-5 -----	1,15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/GB2010/000225

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5429273	A	04-07-1995	NONE
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RECIPIENTE

CAMPO DE LA INVENCION

Esta invención se relaciona con un recipiente, particularmente una jarra, para su uso en la
5 distribución de líquidos a partir de una bolsa o saco flexible.

ANTECEDENTES DE LA INVENCION

El líquido, tal como la leche, puede transportarse y venderse a los consumidores en bolsas
flexibles desechables. Estas bolsas tienen la ventaja de que usan sustancialmente menos
10 materiales plásticos que los recipientes rígidos de plástico comúnmente usados para este
propósito. Sin embargo, es difícil distribuir líquido directamente desde bolsas flexibles. Por lo tanto,
se ha preferido decantar el líquido al cortar un reborde de la bolsa, y verter el líquido desde la
bolsa, por ejemplo, en un recipiente o jarra rígida reutilizable. Esto puede ser difícil de lograr sin
derrames. Alternativamente, la bolsa puede colocarse en una jarra con un reborde de la bolsa
15 cortado, de tal modo que la jarra ayude a sostener la bolsa durante el vaciado directamente desde
la bolsa. Sin embargo, esto también ocasiona problemas con derrames desde la bolsa, los cuales
se "dejan sueltos" en la jarra, y el "vertido" desde la bolsa puede ser altamente variable,
dependiente de qué tan preciso es el corte. También, la bolsa no puede cerrarse una vez que se ha
abierto por un corte, lo cual puede conducir al deterioro del producto que está dentro.

20 Diversos recipientes reutilizables se han propuesto para aceptar una bolsa flexible, hacer
una abertura en la bolsa y distribuir el líquido desde la abertura. Algunas disposiciones semejantes
incluyen un miembro de corte para hacer la abertura, y estas disposiciones usualmente oprimen la
bolsa dentro del recipiente para sostenerla en su lugar firmemente, lo suficiente para cortarse. Un
problema con tal disposición es que los contenidos de la bolsa se encuentran bajo cierta presión, y
25 tienden a salir en chorro con el corte.

La solicitud co-pendiente No. 0715660.7 da a conocer un recipiente en el cual rebordes
opuestos de la bolsa se sujetan entre el cuerpo y tapa para mantener tensa la parte superior de la
bolsa. Un miembro de perforación entonces puede oprimirse hacia la bolsa. Aunque la disposición

funciona bien, es difícil para un usuario sostener ambos rebordes sobre las orillas del cuerpo de la jarra, en tanto que cierra de manera simultánea la tapa para sujetar la bolsa.

SUMARIO DE LA INVENCION

5 De acuerdo con la presente invención, se proporciona un recipiente para distribuir líquido a partir de una bolsa flexible, el recipiente comprende: un cuerpo que tiene una abertura para aceptar la bolsa, el cuerpo se configura para poder acoplarse con una porción superior de la bolsa adyacente a la abertura, para asegurar la bolsa al cuerpo; una tapa para la abertura; y un miembro de perforación que se comunica con una abertura para distribuir el líquido, el miembro de
10 perforación puede moverse para introducirse en el recipiente para perforar la bolsa adyacente a dicha porción superior de la bolsa.

De esta manera, la bolsa puede asegurarse al cuerpo antes de cerrar la tapa, lo que permite que el usuario garantice más fácilmente que la bolsa se encuentra asegurada en forma apropiada.

15 Preferiblemente, el miembro de perforación se asocia con la tapa, por ejemplo, se monta en la tapa. De esta manera, el miembro de perforación puede introducirse en el recipiente a medida que la tapa se cierra, lo que elimina la necesidad de una etapa separada de oprimir el miembro de perforación hacia la bolsa.

La abertura, de manera conveniente, puede ser una parte superior abierta del cuerpo.

20 Preferiblemente, la porción de cuerpo puede acoplarse con la bolsa por medio de una abrazadera para sostener una parte de la porción superior de la bolsa, tal como un reborde de la bolsa. La abrazadera, de manera conveniente, se dispone en o adyacente al borde de la abertura. Adicionalmente, la tapa puede unirse al cuerpo por una bisagra, y el cuerpo y la tapa pueden comprender, cada uno, miembros de acoplamiento en cooperación para asegurar la tapa al cuerpo,
25 los cuales, por ejemplo, pueden proporcionarse opuestos a la bisagra.

De esta manera, una bolsa puede colocarse en la porción de cuerpo, y un reborde en la parte superior de la bolsa puede jalarse sobre el borde y sujetarse en su posición. La tapa entonces puede cerrarse sobre la bolsa y fijarse al cuerpo.

La abrazadera puede comprender superficies texturizadas en cooperación, para incrementar el acoplamiento por fricción con la bolsa. De esta manera, cuando el miembro de perforación perfora la bolsa, la tendencia de la bolsa para jalarsse fuera de la abrazadera puede reducirse.

- 5 El miembro de perforación puede montarse justo adyacente a una orilla de la tapa, de manera conveniente, adyacente al lado que se dispone para que esté adyacente a la abrazadera, y opuesto a la bisagra cuando la tapa se une al cuerpo. El miembro de perforación, de manera conveniente, es un extremo ahusado de una boquilla de descarga, la cual, por ejemplo, puede ser tubular, y cuyo extremo opuesto puede abrirse para formar la abertura de distribución. La boquilla
10 de descarga puede proporcionarse con formaciones de sellado, tales como crestas anulares para facilitar el sellado de la abertura creada en la bolsa con el miembro de perforación.

- El estrechamiento puede extenderse desde un punto de perforación más cerca de la bisagra, hasta una región opuesta cerca de la orilla de la abrazadera del recipiente. De esta manera, la acción de cierre de la tapa tiende a jalar la bolsa lejos de la abrazadera con el punto de
15 perforación perforando la bolsa, y a estirar la abertura alrededor de la boquilla de descarga.

- La boquilla de descarga puede montarse en un cuerpo de la boquilla de descarga que se ajusta en un hueco en la tapa. El extremo abierto de la boquilla de descarga puede proporcionarse con un miembro de cubierta que puede moverse, tal como una cubierta abisagrada para proteger la boquilla de descarga cuando no está en uso y sellar los contenidos de la bolsa. El cuerpo de la
20 boquilla de descarga puede montarse de manera separable en una abertura en la tapa o hueco de la tapa, de tal modo que pueda removerse para limpieza, o pueda oprimirse opcionalmente a través de la abertura después de cerrar la tapa, con el fin de perforar la bolsa.

- La invención también comprende un método para distribuir líquido a partir de una bolsa flexible que comprende: colocar la bolsa en un cuerpo de un recipiente rígido a través de una
25 abertura; asegurar una parte superior de la bolsa al cuerpo, de tal modo que se sostenga arriba del resto de la bolsa; cerrar la abertura con una tapa y perforar la parte superior de la bolsa con un miembro de perforación que se comunica con una abertura para distribuir el líquido.

BREVE DESCRIPCIÓN DE LAS FIGURAS

Con el fin de que la invención pueda comprenderse de una manera más fácil, se hará referencia ahora a los dibujos adjuntos en los cuales:

la Figura 1 es una vista en perspectiva de un recipiente de acuerdo con una modalidad de la invención;

las Figuras 2 y 3 son vistas laterales en perspectiva y corte transversal, respectivamente, del recipiente de la Figura 1, con la tapa abierta;

las Figuras 4 y 5 son vistas en perspectiva del recipiente de la Figura 1 con una bolsa insertada;

las Figuras 6 y 7 son vistas en corte transversal del recipiente de la Figura 1 con una bolsa insertada en el mismo; y la tapa cerrada.

DESCRIPCIÓN DETALLADA DE LA INVENCION

En referencia a la Figura 1, el recipiente para distribución de líquidos 2 está en forma de una jarra, que tiene una porción de cuerpo 4, una tapa 6 y un asa 5. Como puede observarse a partir de la Figura 2, la tapa 6 se dispone para cubrir una abertura generalmente rectangular 10 en la parte superior del cuerpo del recipiente 4. En un primer lado 9, la tapa 6 se une a un primer lado correspondiente 5 de la abertura 10 en el cuerpo 4 por una bisagra 8. En la segunda orilla opuesta 11, la tapa se proporciona con una placa que se extiende de manera descendente 24 que tiene una cresta 26. La cresta 26 se configura para ajustarse sobre un par de miembros de frenado en cooperación 28 que se extienden de manera descendente del cuerpo 4 en extremos opuestos de un hueco interno 27 en un borde 29 de la segunda orilla opuesta correspondiente 7 de la abertura 10. La placa 24 es elástica para ajustarse por presión sobre el cuerpo para asegurar la tapa sobre el cuerpo.

También, en la segunda orilla 7 de la abertura 10, el cuerpo se proporciona con una abrazadera en forma de una superficie de sujeción texturizada 12, y un miembro de sujeción que puede moverse 14. La superficie de sujeción 12 se rebaja ligeramente de manera descendente del borde 29. El miembro de sujeción 24 tiene una superficie inferior texturizada correspondiente 16, y

se une en un extremo al borde 29 por una bisagra 18. Las superficies texturizadas en este caso comprenden aberturas 30 en la superficie de sujeción 12 y proyecciones correspondientes 32 en el miembro de sujeción 14. En el extremo opuesto, el miembro de sujeción 14 se proporciona con una palanca de sujeción 20 para ajustarse en una abertura de palanca 22 adyacente al extremo correspondiente de la superficie de sujeción 12. La palanca 20 es elástica para ajustarse por presión en la abertura 22, y se proporciona con un brazo de palanca 21 para liberar el ajuste por presión para soltar la abrazadera.

En referencia también a la Figura 3, la tapa incluye una muesca conformada 34 que tiene una abertura 36 la cual adquiere las dimensiones para recibir un miembro de perforación en forma de una boquilla de descarga tubular 38. El primer extremo 40 de la boquilla de descarga 38 se ahúsa para proporcionar un punto de perforación. La muesca 34 se encuentra justo adyacente a la segunda orilla 11 de la tapa. El cuerpo de la boquilla de descarga 44 se sostiene dentro de la muesca 34 por proyecciones elásticas 54 para extenderse a través de las aberturas 56 en la muesca de la tapa 34 y ajustarse por presión en su lugar. El cuerpo 44 se orienta de tal modo que la boquilla de descarga 38 se encuentre cerca de la orilla de la muesca 34 de modo que la boquilla de descarga se alinea estrechamente cuando la tapa se cierra con una porción de la bolsa sostenida en su posición por la abrazadera. La boquilla de descarga 38 se ahúsa lejos de esa orilla desde un lado externo 39 hacia el punto de perforación 40 en el lado interno opuesto de la boquilla de descarga 38.

El segundo extremo del tubo 38 forma una abertura de distribución 44 dentro de un cuerpo de la boquilla de descarga mayor generalmente circular 46, que tiene una cubierta abisagrada 48. La cubierta 48 puede incluir una pestaña 50 para su uso en abrir la cubierta, y un sello de la boquilla de descarga 52 para ajustarse dentro de la boquilla de descarga 44 cuando se cierra para sellar los contenidos de la bolsa.

El asa 5 se monta de manera separable al cuerpo 4 debajo de la bisagra 8. En este ejemplo, el asa 5 tiene una porción de agarre 64 y una porción empotrada 66 para situarse adyacente al cuerpo. El asa 5 tiene pestañas salientes que se extienden de manera ascendente 68, 70, 72 en la parte superior, en la parte inferior de la porción de agarre 64, y en la parte inferior

de la porción empotrada 66.

Cada una de las pestañas salientes 68, 70; 72 se conforma para ajustarse estrechamente dentro de cavidades angostas correspondientes 74, 76, 78 formadas en el lado 80 del cuerpo debajo de la bisagra 8. De esta manera, el usuario puede deslizar el asa de manera ascendente para ajustarla sobre el cuerpo, con el peso del recipiente reteniéndola.

Como se muestra en las Figuras 4 y 5, con el uso, una bolsa o saco flexible 60 se coloca en el cuerpo 4 del recipiente mediante la abertura 10. El usuario agarra una esquina o reborde superior 62 de la bolsa y la estira sobre la superficie de sujeción 12. En esta posición, el miembro de sujeción 14 se hace bajar; como se indica por la flecha en la Figura 4, hasta que la superficie de la parte inferior 16 se encuentra con la superficie de sujeción 12, y la palanca de sujeción 20 se oprime hacia abajo hacia la abertura de la abrazadera 22 y se ajusta por presión. Esto sostiene el reborde de la bolsa de manera segura en su posición entre las superficies texturizadas en cooperación 12, 16, como se muestra en la Figura 5.

En referencia también a las Figuras 6 y 7, el reborde 62 de la bolsa 60, de esta manera, se comprime entre las superficies texturizadas, y se acopla por fricción. La tapa 6 entonces puede cerrarse, como se indica por la flecha en la Figura 6, de tal modo que el extremo agudo 40 en el lado interno de la boquilla de descarga 38 perfora la bolsa 60 para hacer un orificio inmediatamente adyacente al reborde 62.

A medida que la tapa 6 continúa cerrándose, el lado interno de la boquilla de descarga 38 jala la bolsa de manera firme y lejos de la abrazadera. Las superficies texturizadas se oponen a la tendencia a que la bolsa se salga de la abrazadera cuando el miembro de perforación 38 se oprime hacia abajo. La abertura formada de esta manera en la bolsa 60 se estira alrededor del tubo 38 lo que permite que el lado externo 39 de la boquilla de descarga 38 se reciba y se selle contra el mismo. Los contenidos de la bolsa entonces pueden distribuirse mediante la abertura de distribución 44. Cuando la tapa se cierra, la cresta 26 de la placa 24 se acopla bajo los frenos 28 para asegurar la tapa 6 al cuerpo 4.

Puede observarse que, dado que la boquilla de descarga se encuentra cerca del segundo lado 82 del cuerpo opuesto al asa 5, lo último de los contenidos de la bolsa 60 es capaz de

REIVINDICACIONES

1. Un recipiente para distribuir líquido a partir de una bolsa flexible, el recipiente comprende: un cuerpo que tiene una abertura para aceptar la bolsa, el cuerpo se configura para poder acoplarse con una porción superior de la bolsa adyacente a la abertura, para asegurar la bolsa al cuerpo; una tapa para la abertura; y un miembro de perforación que se comunica con una abertura para distribuir el líquido, el miembro de perforación puede moverse para introducirse en el recipiente para perforar la bolsa adyacente a dicha porción superior de la bolsa.
2. El recipiente para distribuir líquido a partir de una bolsa flexible de conformidad con la reivindicación 1, en el cual el miembro de perforación se asocia con la tapa.
3. El recipiente para distribuir líquido a partir de una bolsa flexible de conformidad con la reivindicación 1 o 2, en el cual la abertura es una parte superior abierta del cuerpo.
4. El recipiente para distribuir líquido a partir de una bolsa flexible de conformidad con cualquier reivindicación precedente, en el cual el cuerpo puede acoplarse con la porción superior de la bolsa por medio de una abrazadera para sostener una parte de la porción superior.
5. El recipiente para distribuir líquido a partir de una bolsa flexible de conformidad con la reivindicación 4, en el cual la abrazadera se dispone en o adyacente a un borde de la abertura.
6. El recipiente para distribuir líquido a partir de una bolsa flexible de conformidad con la reivindicación 4 o 5, en el cual la abrazadera comprende superficies texturizadas en cooperación, para acoplar por fricción la bolsa.
7. El recipiente para distribuir líquido a partir de una bolsa flexible de conformidad con cualquier reivindicación precedente, en el cual la tapa se une al cuerpo por una bisagra.
8. El recipiente para distribuir líquido a partir de una bolsa flexible de conformidad con cualquier reivindicación precedente, en el cual el cuerpo y la tapa comprenden miembros de acoplamiento en cooperación para asegurar la tapa al cuerpo.
9. El recipiente para distribuir líquido a partir de una bolsa flexible de conformidad con cualquier reivindicación precedente, en el cual el miembro de perforación se monta en una posición justo adyacente a una orilla de la tapa.

10. El recipiente para distribuir líquido a partir de una bolsa flexible de conformidad con la reivindicación 9, en el cual la orilla adyacente al miembro de perforación es sustancialmente opuesta a la bisagra.

5 11. El recipiente para distribuir líquido a partir de una bolsa flexible de conformidad con cualquier reivindicación precedente, en el cual el miembro de perforación es un extremo ahusado de una boquilla de descarga, cuyo extremo opuesto forma la abertura de distribución.

12. El recipiente para distribuir líquido a partir de una bolsa flexible de conformidad con la reivindicación 11, en el cual el estrechamiento se extiende desde una parte externa de la boquilla de descarga adyacente a la orilla de la tapa, hacia un punto de perforación en una parte interna
10 opuesta de la boquilla de descarga más cerca de la bisagra.

13. El recipiente para distribuir líquido a partir de una bolsa flexible de conformidad con la reivindicación 11 o 12, en el cual la boquilla de descarga se monta en un cuerpo de la boquilla de descarga que puede separarse, dispuesto para ajustarse en un hueco en la tapa.

14. El recipiente para distribuir líquido a partir de una bolsa flexible de conformidad con la
15 reivindicación 11, 12 o 13, en el cual la abertura de la boquilla de descarga se proporciona con un miembro de cubierta que puede moverse.

15. Un método para distribuir líquido a partir de una bolsa flexible que comprende: colocar la bolsa en un cuerpo de un recipiente rígido a través de una abertura; asegurar una parte superior de la bolsa al cuerpo, de tal modo que se sostenga arriba del resto de la bolsa; cerrar la abertura
20 con una tapa; y perforar la parte superior de la bolsa con un miembro de perforación que se comunica con una abertura para distribuir el líquido.

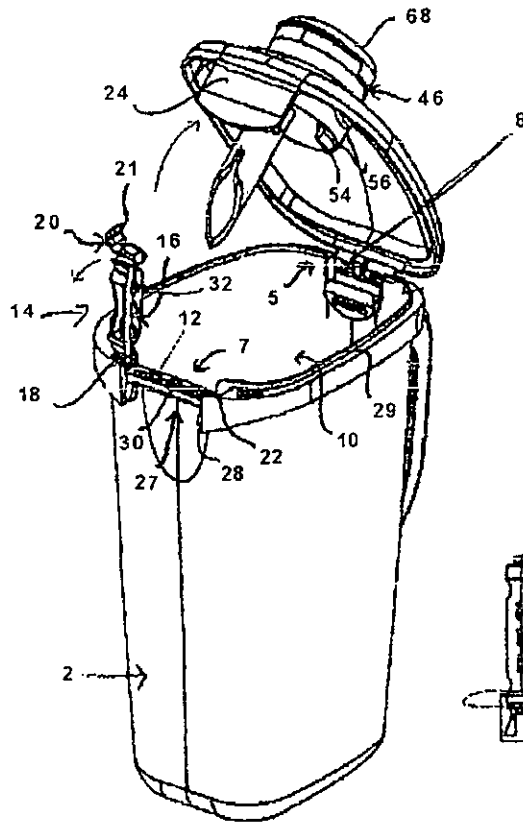


FIGURE 2

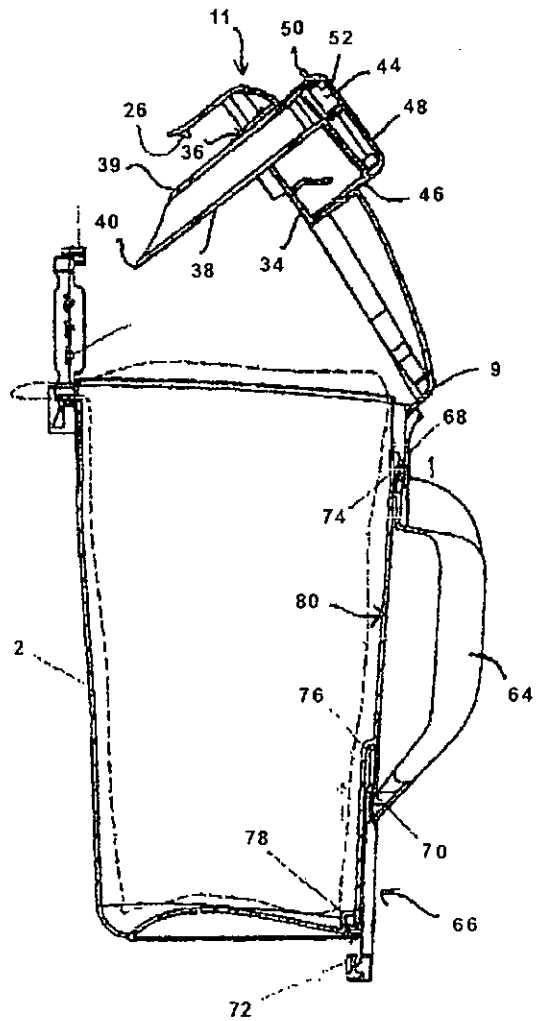


FIGURE 3

3/4

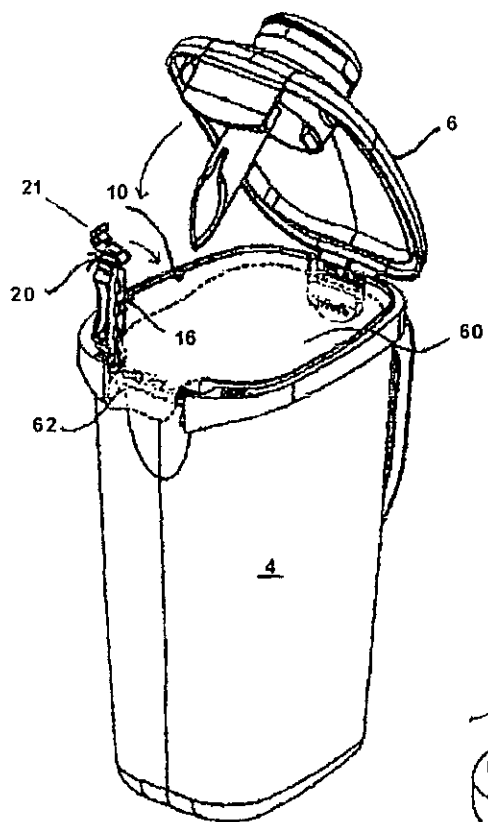


FIGURE 4

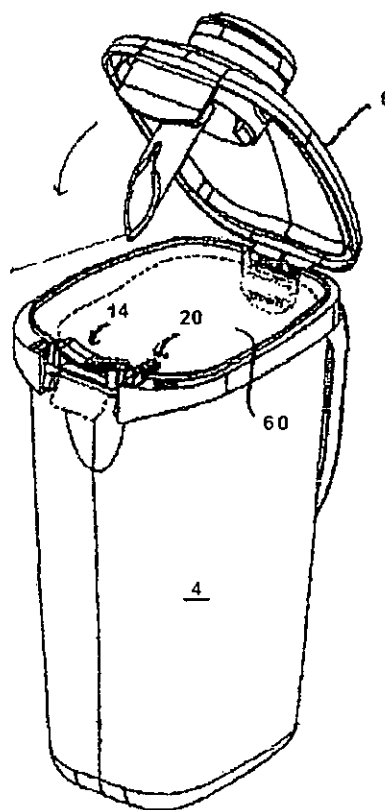


FIGURE 5

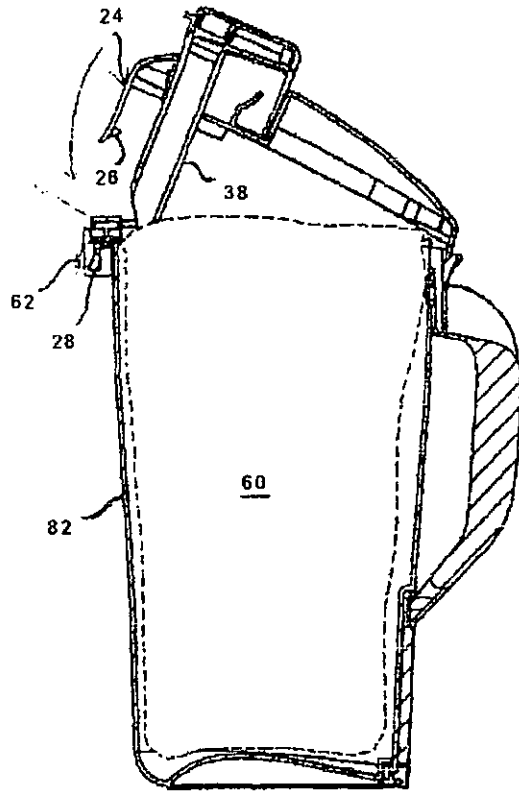


FIGURA 6

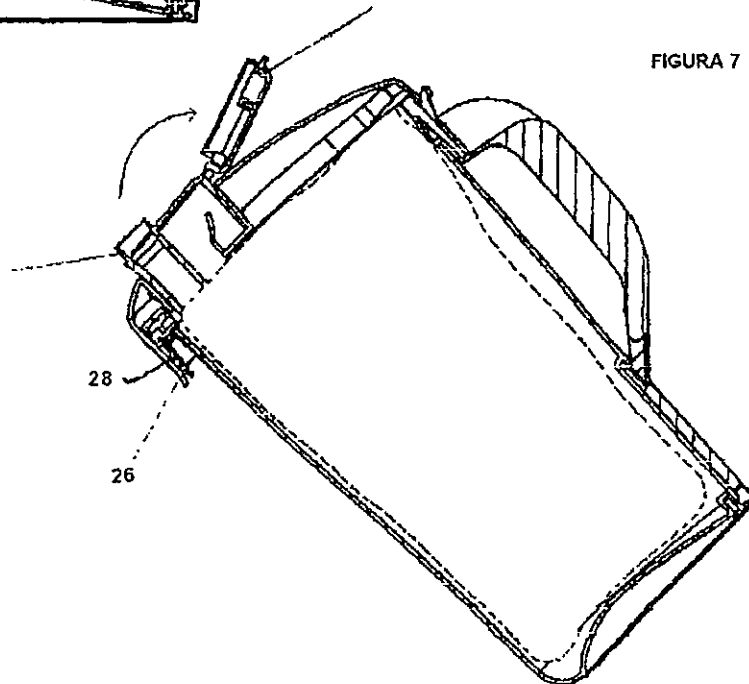


FIGURA 7

PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

For receiving Office use only

International Application No.

International Filing Date

Name of receiving Office and "PCT International Application"

Applicant's or agent's file reference (if desired) (12 characters maximum) AH/ZR/51514PCT1

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Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) HECTOR, Annabel Mary Cleveland 40-43 Chancery Lane London WC2A 1JQ United Kingdom	
Telephone No. +44 (0)20 7405 5875	
Facsimile No. +44 (0)20 7831 0749	
Agent's registration No. with the Office	
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State <i>(that is, country)</i> of nationality: GB	State <i>(that is, country)</i> of residence: GB
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Supplemental Box

If the Supplemental Box is not used, this sheet should not be included in the request.

1. If, in any of the Boxes, except Boxes Nos. VIII(i) to (v) for which a special continuation box is provided, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No." (indicate the number of the Box) and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular:
- (i) if more than one person is to be indicated as applicant and/or inventor and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below:
 - (ii) if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
 - (iii) if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
 - (iv) if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
 - (v) if, in Box No. VI, there are more than three earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.
2. If the applicant intends to make an indication of the wish that the international application be treated, in certain designated States, as an application for a patent of addition, certificate of addition, inventor's certificate of addition or utility certificate of addition: in such case, write the name or two-letter code of each designated State concerned and the indication "patent of addition," "certificate of addition," "inventor's certificate of addition" or "utility certificate of addition," the number of the parent application or parent patent or other parent grant and the date of grant of the parent patent or other parent grant or the date of filing of the parent application (Rules 4.11(a)(i) and 49bis.1(a) or (b)).
3. If the applicant intends to make an indication of the wish that the international application be treated, in the United States of America, as a continuation or continuation-in-part of an earlier application: in such case, write "United States of America" or "US" and the indication "continuation" or "continuation-in-part" and the number and the filing date of the parent application (Rules 4.11(a)(ii) and 49bis.1(c)).
4. If the applicant wishes to request the receiving Office or the International Bureau to obtain a priority document from a digital library but that document is only held in a digital library in connection with another application which also relied upon that priority document to support a priority claim (and unless that digital library is to be accessed through the Digital Access Service for Priority Documents), in such cases write "Continuation of Box No. VI", indicate for each earlier application concerned the same type of information as required in Box No. VI and indicate the number under which the application is stored (and, if known, the digital library concerned) (Section 716(a)(ii)).

Continuation of Box No IV:

SMITH, Norman Ian,
 BERNARD, Alan Peter
 BROWN, Fraser Gregory James
 FAULKNER, Thomas John
 WILLIAMS, Michael Ian
 BRADLEY, Adrian

All of: Cleveland
 40-43 Chancery Lane
 London
 WC2A 1JQ

Telephone No Facsimile No
 +44(0) 207 405 5875 +44(0) 207 831 0749

Box No. V DESIGNATIONS

The filing of this request constitutes under Rule 4.9(a) the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.

However,

- ☐ DE Germany is not designated for any kind of national protection
☐ JP Japan is not designated for any kind of national protection
☐ KR Republic of Korea is not designated for any kind of national protection

(The check-boxes above may only be used to exclude (irrevocably) the designations concerned if, at the time of filing or subsequently under Rule 26bis.1, the international application contains in Box No. VI a priority claim to an earlier national application filed in the particular State concerned, in order to avoid the ceasing of the effect, under the national law, of this earlier national application.)

Box No. VI PRIORITY CLAIM

The priority of the following earlier application(s) is hereby claimed:

Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		national application: country or Member of WTO	regional application: regional Office	international application: receiving Office
item (1) 10 February 2009	0902172.6	UK		
item (2)				
item (3)				

☐ Further priority claims are indicated in the Supplemental Box.

☐ The International Bureau is requested to obtain from a digital library, a certified copy of the earlier application(s) (if the earlier application(s) is available to it from a digital library) identified above as:*

☐ all items ☐ item (1) ☐ item (2) ☐ item (3) ☐ other, see Supplemental Box

☒ The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (if the earlier application(s) was filed with the Office which for the purposes of this international application is the receiving Office) or to obtain a certified copy of the earlier application(s) from a digital library and transmit a copy of it to the International Bureau (if the earlier application(s) is available to the receiving Office from a digital library), identified above as:*

☐ all items ☒ item (1) ☐ item (2) ☐ item (3) ☐ other, see Supplemental Box

* Where the certified copy of the earlier application(s) is not stored in a digital library under the number of the earlier application indicated above but under the application number of another application which also claims priority from it, indicate that number in the supplemental sheet (item 4).

Restore the right of priority: the receiving Office is requested to restore the right of priority for the earlier application(s) identified above or in the Supplemental Box as item(s) (). (See also the Notes to Box No. VI; further information must be provided to support a request to restore the right of priority.)

Incorporation by reference: where an element of the international application referred to in Article 11(1)(iii)(d) or (e) or a part of the description, claims or drawings referred to in Rule 20.5(a) is not otherwise contained in this international application but is completely contained in an earlier application whose priority is claimed on the date on which one or more elements referred to in Article 11(1)(iii) were first received by the receiving Office, that element or part is, subject to confirmation under Rule 20.6, incorporated by reference in this international application for the purposes of Rule 20.6.

Box No. VII INTERNATIONAL SEARCHING AUTHORITY

Choice of International Searching Authority (ISA) (if more than one International Searching Authority is competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):

ISA: EPO

Box No. IX CHECK LIST for PAPER filings – this sheet is only to be used when filing an international application on PAPER			
This international application contains the following:	Number of sheets	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):	Number of items
(a) request form PCT/RO/101 (including any declarations and supplemental sheets)	4	1. ☒ fee calculation sheet	1
(b) description (excluding any sequence listing part of the description, see (f), below)	7	2. ☐ original separate power of attorney	
(c) claims	3	3. ☐ original general power of attorney	
(d) abstract	1	4. ☐ copy of general power of attorney: reference number:	
(e) drawings (if any)	7	5. ☐ statement explaining lack of signature	
(f) sequence listing part of the description (if any)		6. ☐ priority document(s) identified in Box No. VI as item(s)	
Total number of sheets :	22	7. ☐ Translation of international application into (language):	
		8. ☐ separate indications concerning deposited microorganism or other biological material	
		9. ☐ copy in electronic form (Annex C/ST.25 text file) on physical data carrier(s) of the sequence listing, not forming part of the international application, which is furnished only for the purposes of international search under Rule 13ter (type and number of physical data carriers)	
		10. ☐ a statement confirming that "the information recorded in electronic form submitted under Rule 13ter is identical to the sequence listing as contained in the international application as filed on paper"	
		11. ☐ copy of results of earlier search(es) (Rule 12bis.1(a)) ..	
		12. ☐ other (specify):	
Figure of the drawings which should accompany the abstract:	4	Language of filing of the international application: English	
Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE <i>Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).</i>			
 Annabel Mary HECTOR Authorised Representative			
For receiving Office use only			
1. Date of actual receipt of the purported international application:	2. Drawings: ☐ received: ☐ not received:		
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:			
4. Date of timely receipt of the required corrections under PCT Article 11(2):			
5. International Searching Authority (if two or more are competent): ISA /	6. ☐ Transmittal of search copy delayed until search fee is paid		
For International Bureau use only			
Date of receipt of the record copy by the International Bureau:			

This sheet is not part of and does not count as a sheet of the international application.

PCT

FEE CALCULATION SHEET

Annex to the Request

For receiving Office use only

International Application No.

Date stamp of the receiving Office

Applicant's or agent's
file reference

AH/ZR/51514PCT1

Applicant

Dairy Crest Limited

CALCULATION OF PRESCRIBED FEES

1. TRANSMITTAL FEE £55.00 [T]

2. SEARCH FEE £1536.00 [S]

International search to be carried out by

EPO

(If two or more International Searching Authorities are competent to carry out the international search, indicate the name of the Authority which is chosen to carry out the international search.)

3. INTERNATIONAL FILING FEE

Enter total number of sheets indicated in Box No IX: 23

[i1] first 30 sheets £794.00 [i1]

[i2] 0 x 0 = £0.00 [i2]
number of sheets in excess of 30 fee per sheet

Add amounts entered at i1 and i2 and enter total at I £794.00 [I]

(Applicants from certain States are entitled to a reduction of 90% of the international filing fee. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 10% of the international filing fee.)

4. FEE FOR PRIORITY DOCUMENT (if applicable) £20.00 [P]

5. FEE FOR RESTORATION OF THE RIGHT OF PRIORITY (if applicable) [RP]

6. FEE FOR EARLIER SEARCH DOCUMENTS (if applicable) [ES]

7. TOTAL FEES PAYABLE £2405.00

Add amounts entered at T, S, I, P, RP and ES, and enter total in the TOTAL box

TOTAL

MODE OF PAYMENT (Not all modes of payment may be available at all receiving Offices)

- ☐ authorization to charge deposit or current account (see below) ☐ postal money order ☐ credit card (details should be furnished separately and not included on this sheet) ☐ cash
- ☒ cheque ☐ bank transfer ☐ revenue stamps ☐ other (specify):

AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT OR CURRENT ACCOUNT

(This mode of payment may not be available at all receiving Offices)

- ☐ Authorization to charge the total fees indicated above.
- ☐ (This check-box may be marked only if the conditions for deposit or current accounts of the receiving Office so permit) Authorization to charge any deficiency or credit any overpayment in the total fees indicated above.
- ☐ Authorization to charge the fee for priority document.

Receiving Office: RO/

Deposit or Current Account No.:

Date:

Name:

Signature:

INTERNATIONAL SEARCH REPORT

International application No

PCT/GB2010/000225

A. CLASSIFICATION OF SUBJECT MATTER

INV. B67B7/46

ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

B67B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 429 273 A (KING DAVID C [CA] ET AL) 4 July 1995 (1995-07-04) column 6, line 34 - column 7, line 14; figures 1-11	1-5, 7-10,15
X	WO 92/19528 A1 (DU PONT CANADA [CA]) 12 November 1992 (1992-11-12) page 6, line 1 - line 10; figures 1,2	1-5,8,15
X	US 6 651 845 B1 (SCHROEDER CHARLES W [US]) 25 November 2003 (2003-11-25) column 2, line 40 - column 3, line 28; figures 1-7	1-5,8, 11,15
X,P	EP 2 022 750 A1 (DAIRY CREST LTD [GB]) 11 February 2009 (2009-02-11) cited in the application the whole document	1-6,8,9, 11,13-15



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

1 June 2010

Date of mailing of the international search report

09/06/2010

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040.
Fax: (+31-70) 340-3016

Authorized officer

Wartenhorst, Frank

INTERNATIONAL SEARCH REPORT

International application No

PCT/GB2010/000225

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2 046 226 A (GABR S Z M) 12 November 1980 (1980-11-12) page 2, line 4 - line 20; figures 1,2 -----	1,10,15
A	US 4 265 372 A (WAINBERG LAWRENCE) 5 May 1981 (1981-05-05) column 4, line 58 - column 6, line 41; figures 1-8 -----	1,10,15
A	EP 0 916 616 A1 (HENKEL KGAA [DE]) 19 May 1999 (1999-05-19) paragraphs [0010] - [0014]; figures 1-3 -----	1,10,15
A	WO 92/04274 A1 (NIELSEN ALF [DK]) 19 March 1992 (1992-03-19) abstract; figures 1-5 -----	1,15

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/GB2010/000225

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5429273	A	04-07-1995	NONE	
WO 9219528	A1	12-11-1992	AU 1588492 A CA 2109430 A1 EP 0583261 A1 IE 921360 A1 JP 6506650 T PT 100430 A US 5497909 A	21-12-1992 30-10-1992 23-02-1994 04-11-1992 28-07-1994 31-05-1994 12-03-1996
US 6651845	B1	25-11-2003	AU 2003281054 A1 WO 2004007343 A1	02-02-2004 22-01-2004
EP 2022750	A1	11-02-2009	CA 2638513 A1 GB 2451702 A US 2009108001 A1	10-02-2009 11-02-2009 30-04-2009
GB 2046226	A	12-11-1980	NONE	
US 4265372	A	05-05-1981	NONE	
EP 0916616	A1	19-05-1999	DE 19750861 C1	15-07-1999
WO 9204274	A1	19-03-1992	DK 45291 A JP 6500754 T	12-03-1992 27-01-1994

Application No: GB0902172.6

Examiner: Mr Darren Williams

Claims searched: 1-13

Date of search: 22 May 2009

Patents Act 1977: Search Report under Section 17

Documents considered to be relevant:

Category	Relevant to claims	Identity of document and passage or figure of particular relevance
X,E	1-13	GB2451702 A (DAIRY CREST) see whole document
X	1-5, 7-13	WO91/17110 A1 (KING) see whole document
X	1-5, 8-13	WO92/19528 A1 (WIRSIG) see whole document
X	1-5, 7-10, 13	US4561560 A (LYON) see whole document
X	1-5, 7-10, 13	WO92/04274 A1 (NIELSEN) see whole document
X	1-5, 7-10, 13	EP0299734 A1 (LYON) see whole document

Categories:

X	Document indicating lack of novelty or inventive step	A	Document indicating technological background and/or state of the art.
Y	Document indicating lack of inventive step if combined with one or more other documents of same category.	P	Document published on or after the declared priority date but before the filing date of this invention.
&	Member of the same patent family	E	Patent document published on or after, but with priority date earlier than, the filing date of this application.

Field of Search:

Search of GB, EP, WO & US patent documents classified in the following areas of the UKC^X:

Worldwide search of patent documents classified in the following areas of the IPC

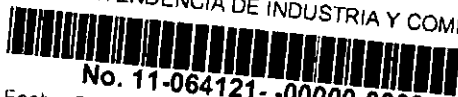
B65D; B67B

The following online and other databases have been used in the preparation of this search report

EPODOC, WPI

International Classification:

Subclass	Subgroup	Valid From
B65D	0077/06	01/01/2006
B65D	0025/40	01/01/2006
B65D	0047/06	01/01/2006
B65D	0077/04	01/01/2006
B67B	0007/46	01/01/2006



No. 11-064121-00000-0000

Fecha: 2011-05-24 16:18:55

Tra. 11 PATENTEIYII

Act. 411 PRESENTACION

Dep. 2020 DIR.NUEVASCR

Eve: 378 FASENACIONALI

Folios: 50

JNES

PATENTE DE INVENCION ☐

MODELO DE UTILIDAD ☐

Art 33 Decisión 486/00

☐

Indicación que se solicita una patente.

☐

Datos de identificación del solicitante o de la persona que presenta la solicitud

☐

Descripción de la invención

☐

Dibujos de ser estos pertinentes

☐

Comprobante de pago de las tasas establecidas (De ser el caso formato de descuento)

Completa ☐

Incompleta ☐

PATENTE DE INVENCION PCT ☒



MODELO DE UTILIDAD PCT ☐

Art.33 Decisión 486/00, Circular Única

☒

Indicación que se solicita una PCT

☒

Copia de la solicitud en español, tal como fue presentada inicialmente (capítulo descriptivo, reivindicatorio, resumen)

☒

Dibujos de ser estos pertinentes

☒

Comprobante de pago de las tasas establecidas (de ser el caso formato de descuento)

Completa ☒

Incompleta ☐

DISEÑO INDUSTRIAL ☐

(Art. 119 Decisión 486/00)

☐

Indicación que se solicita Diseño industrial

☐

Datos de identificación del solicitante o de la persona que presenta la solicitud

☐

Representación gráfica y fotográfica del Diseño industrial o muestra del material que incorpora el diseño

☐

Comprobante de pago de las tasas establecidas

Completa ☐

Incompleta ☐

ESQUEMA DE TRAZADO ☐

(Art. 92 Decisión 486/00)

☐

Indicación que se solicita un esquema de trazado

☐

Datos de identificación del solicitante o de la persona que presenta la solicitud

☐

Representación gráfica de un esquema de trazado

☐

Comprobante de pago de las tasas establecidas

Completa ☐

Incompleta ☐

Bogotá D.C.,
2020

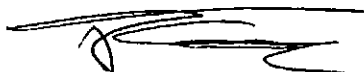
Doctor(a)
RAISBECK J. IAN
Apoderado(a) y/o Representante de
DAIRY CREST LIMITED

REFERENCIA	Radicación No.	11 064121
	Solicitud internacional	PCT/GB2010/000225
	Fecha inicio fase nacional	10/09/2011
	Trámite	11
	Evento	378
	Actuación	430
	Oficio No.	15045

Teniendo en cuenta que el capítulo reivindicatorio presentado excede de diez reivindicaciones, es necesario que cancele la tasa establecida por cada reivindicación adicional presentada, de conformidad con lo dispuesto en la resolución de tasas vigente para la fecha de presentación de la solicitud, so pena de que no sean tenidas en cuenta dentro del presente trámite administrativo.

En consecuencia, con fundamento en lo previsto por el artículo 12 del Código Contencioso Administrativo, se le requiere para que dentro del término de dos (2) meses siguientes a la fecha de notificación del presente oficio atienda el requerimiento aquí señalado. Lo anterior, con el alcance que para tal efecto establece el artículo 13 de la misma codificación, respecto de las reivindicaciones adicionales.

Notifíquese el presente oficio conforme a lo dispuesto en el numeral 5.2, literal e), del capítulo quinto del título primero de la Circular Única N° 10 de 2001.



JOSE LUIS SALAZAR LOPEZ
Director de Nuevas Creaciones (C)

El anterior requerimiento fue notificado por fijación en lista de fecha
adpa11

23 SET. 2011