

Title (en)

Anti-spill device for liquid containers

Title (de)

Anti-Tropfvorrichtung an Flüssigkeitsbehältern

Title (fr)

Dispositif anti-fuites pour récipient contenant un liquide

Publication

EP 0807584 A1 19971119 (EN)

Application

EP 97105829 A 19970409

Priority

IT MI960998 A 19960517

Abstract (en)

An anti-spill device for liquid containers, in particular for dense or viscous liquids, consisting of a cup-shaped element (11) or under-cap, of elastic material, inserted in the spout (3) of the container and forming a liquid seal, withstanding a pressure at least equal to the pressure exerted by the weight of the liquid held in the container (1) on said cup-shaped element (11), so that the container can be overturned without there being any separation of the under-cap (11), which occurs only following an increase in the pressure inside the container, caused for example by squeezing the side wall (14) thereof, the under-cap (11) being connected, by means of a rod-shaped extension (20) to radial elastic fins (22), such as to avoid complete detachment of the anti-spill device from the container. <IMAGE>

IPC 1-7

B65D 47/20; **B65D 47/14**; **B65D 55/16**

IPC 8 full level

B65D 47/14 (2006.01); **B65D 47/20** (2006.01); **B65D 55/16** (2006.01)

CPC (source: EP)

B65D 47/141 (2013.01); **B65D 47/2075** (2013.01); **B65D 55/165** (2013.01)

Citation (search report)

- [XY] US 4842152 A 19890627 - DONEGAN JAMES E [US]
- [Y] US 1721666 A 19290723 - LEE DANIEL W
- [A] IT 641444 A
- [A] US 5190193 A 19930302 - SCUDDAY JAMES D [US]
- [A] DE 1817592 A1 19700709 - KUERNER RUDOLF

Cited by

CN110481927A; CN103144842A; CN105209978A; US10538370B2; US6609630B1

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DOCDB simple family (application)

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