

Title (en)
Stopping means for flasks.

Title (de)
Verschlussvorrichtung für Flaschen.

Title (fr)
Dispositif de bouchage pour flacon.

Publication
EP 0296004 A1 19881221 (FR)

Application
EP 88401332 A 19880601

Priority
FR 8708635 A 19870619

Abstract (en)
The stopping means comprises an intermediate chamber (15) arranged at the free end of the neck (2) of a flask (1). This chamber is delimited at its upper part by an elastic membrane (14) mounted rotatably relative to the axis of the neck. At its lower part, it is limited by a fixed base (10) perforated with two inlet orifices (16) to the chamber. An outlet orifice (18) from the chamber (15) is arranged in the centre of the membrane (14) and a projection (17), located opposite the outlet orifice (18) on the base (10), closes the latter. The membrane (14) comprises protuberances (19) which penetrate partially into the inlet orifices (16) and close them off, producing locking of the device. Rotation of the membrane (14) by acting manually on the skirt (12) of the movable cap (6) gives rise to an elastic deformation of the membrane and releases the device, placing the inside of the flask and the chamber (15) in communication via the inlet orifices (16). By increasing the pressure beyond a specific value inside the flask, the membrane (14) is further deformed and the outlet orifice (18) is disengaged from the projection (17), the device then being in the open position. <IMAGE>

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B65D 35/50; **B65D 47/24**

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CPC (source: EP)
B65D 47/2081 (2013.01)

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• [XP] US 4699300 A 19871013 - BLAKE WILLIAM S [US]
• [Y] FR 2558140 A3 19850719 - FINKE ROBERT KG [DE]
• [Y] GB 1164877 A 19690924 - SCHWARTZMAN GILBERT [US]
• [A] FR 2367001 A1 19780505 - CREATIVE CLOSURE ASS [US]
• [A] CH 206334 A 19390731 - HAEGELE EUGEN [CH]

Cited by
DE19580254B4; US5186369A; AT413979B; US7740155B1; DE29801220U1; US5927568A; GB2268167A; GB2268167B; EP0516498A1; FR2676714A1; US5271533A; US7703634B2; WO9526306A1; WO2004064578A1; US7753225B2

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