

Title (en)
DEVICE FOR DISPENSING A FLUID FROM THE HOLLOW SPACE OF A RECEPTACLE

Title (de)
VORRICHTUNG ZUR AUSGABE EINES FLUIDES AUS EINEM HOHLRAUM EINES BEHÄLTERS

Title (fr)
DISPOSITIF POUR FAIRE SORTIR UN LIQUIDE DE L'ENCEINTE D'UN RECIPIENT

Publication
EP 1737759 B2 20141105 (DE)

Application
EP 05716403 A 20050326

Priority
• EP 2005003238 W 20050326
• DE 102004017171 A 20040402

Abstract (en)
[origin: US7866510B2] Disclosed is a device for dispensing a fluid, in particular a carbonated beverage, from a storage chamber of a container towards the outside via at least one closeable discharge port, comprising a pressure reservoir which is separated from the storage chamber and in which a pressurized propellant is accommodated, and which can be connected to the storage chamber via a pressure regulation mechanism. The pressure regulation mechanism includes an axially moveable regulating element that is impinged upon by means of a spring in the direction of an open position in which propellant is discharged from the pressure reservoir into the storage chamber. The ambient pressure to which the container is exposed acts upon the regulating element in the direction of the open position, and the internal pressure inside the storage chamber of the container acts upon the regulating element in the direction of the closed position.

IPC 8 full level
B65D 83/14 (2006.01); **B67D 1/04** (2006.01)

CPC (source: EP KR US)
B65D 83/14 (2013.01 - KR); **B65D 83/663** (2013.01 - EP US); **B67D 1/0418** (2013.01 - EP US)

Citation (opposition)
Opponent :
• AT 357055 B 19800610 - ZIEH PRESS UND STANZWERK ZWINT [DD]
• US 4011971 A 19770315 - HAYDON EDWARD R
• US 5894869 A 19990420 - MUSSACK KEVIN R [US]
• US 4456155 A 19840626 - MIYATA HIROYASU [JP], et al
• WO 0035773 A1 20000622 - HEINEKEN TECH SERVICES [NL], et al
• FR 2690142 A1 19931022 - OREAL [FR]
• WO 03064286 A1 20030807 - PRIMEPACK PTY LTD [AU], et al
• US 5894784 A 19990420 - BOBBITT III JOHN T [US], et al
• US 3327899 A 19670627 - REYNOLDS KENNETH E, et al
• US 3134520 A 19640526 - WENTZ RICHARD K
• DE 1216144 B 19660505 - FIRESTONE TIRE & RUBBER CO
• US 2873051 A 19590210 - HAMBURG HENRY F, et al
• US 3039661 A 19620619 - WENTZ RICHARD K, et al
• DE 3345619 C2 19880601

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Designated contracting state (EPC)
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DOCDB simple family (publication)
WO 2005095229 A1 20051013; WO 2005095229 A8 20051222; AT E401262 T1 20080815; AU 2005229402 A1 20051013; AU 2005229402 A8 20110609; AU 2005229402 B2 20110210; AU 2005229402 B8 20110609; CA 2565091 A1 20051013; CA 2565091 C 20110517; CN 100546887 C 20091007; CN 1964901 A 20070516; DE 102004017171 A1 20051020; DE 502005004734 D1 20080828; EA 009752 B1 20080428; EA 200601833 A1 20070629; EP 1737759 A1 20070103; EP 1737759 B1 20080716; EP 1737759 B2 20141105; ES 2310812 T3 20090116; HK 1098733 A1 20070727; KR 100970825 B1 20100716; KR 20070007890 A 20070116; PL 1737759 T3 20081231; US 2007114249 A1 20070524; US 2008099511 A1 20080501; US 7866510 B2 20110111

DOCDB simple family (application)
EP 2005003238 W 20050326; AT 05716403 T 20050326; AU 2005229402 A 20050326; CA 2565091 A 20050326; CN 200580017890 A 20050326; DE 102004017171 A 20040402; DE 502005004734 T 20050326; EA 200601833 A 20050326; EP 05716403 A 20050326; ES 05716403 T 20050326; HK 07106156 A 20070608; KR 20067023005 A 20050326; PL 05716403 T 20050326; US 59623705 A 20050302; US 59908106 A 20061114