Title (en)

INSERTS FOR MULTIPLE COMPONENT CONTAINERS

Title (de)

EINSÄTZE FÜR MEHRFACHKOMPONENTENBEHÄLTER

Title (fr)

INSERTS POUR CONTENANTS DE COMPOSANTS MULTIPLES

Publication

EP 1973799 B1 20130703 (EN)

Application

EP 06794910 A 20061025

Priority

- GB 2006003991 W 20061025
- GB 0601018 A 20060118

Abstract (en)

[origin: US2007163898A1] An insert for a multiple component container includes a diaphragm and a sealing element which together define a reservoir. The diaphragm includes a stationary portion and a movable portion. The movable portion is connected to the stationary portion by at least two spaced annular fold lines of opposite sense. A discharge opening is formed in the movable portion within the annular fold lines. A gas leakage path is provided in the diaphragm. A valve member is connected to the stationary portion and cooperates with the discharge opening and substantially seals it. If a great gas pressure is applied to the interior of the reservoir than to its exterior, this results in rotational movement about the fold lines and thus in movement of the movable portion away from the stationary portion and thus in the valve member moving out of sealing contact with the flow opening. Any liquid in the reservoir is then expelled through the discharge opening by the higher pressure prevailing within the reservoir.

IPC 8 full level

B65D 51/28 (2006.01)

CPC (source: EP KR US)

B65D 51/28 (2013.01 - KR); **B65D 51/2864** (2013.01 - EP US); **B65D 81/32** (2013.01 - KR); **B65D 81/3222** (2013.01 - EP US); **B65D 85/73** (2013.01 - EP KR US); A61J 1/2037 (2015.05 - EP US); A61J 1/2093 (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2007163898 A1 20070719; AU 2006335995 A1 20070726; AU 2006335995 B2 20111103; BR PI0621191 A2 20111206; CA 2637746 A1 20070726; CN 101360658 A 20090204; CN 101360658 B 20100519; EP 1973799 A1 20081001; EP 1973799 B1 20130703; GB 0601018 D0 20060301; HK 1122254 A1 20090515; JP 2009523666 A 20090625; JP 5101524 B2 20121219; KR 101319796 B1 20131017; KR 20080094677 A 20081023; RU 2008131903 A 20100227; RU 2410306 C2 20110127; TW 200728162 A 20070801; TW I392629 B 20130411; UA 92928 C2 20101227; WO 2007083074 A1 20070726

DOCDB simple family (application)

US 45692906 A 20060712; AU 2006335995 A 20061025; BR PI0621191 A 20061025; CA 2637746 A 20061025; CN 200680051425 A 20061025; EP 06794910 A 20061025; GB 0601018 A 20060118; GB 2006003991 W 20061025; HK 08111064 A 20081003; JP 2008550826 A 20061025; KR 20087019271 A 20061025; RU 2008131903 A 20061025; TW 95139619 A 20061026; UA A200809309 A 20061025