

Title (en)

Dispensing device for a composition having a concentration gradient

Title (de)

Abgabeeinrichtung einer Zusammensetzung mit Konzentrationsgradienten

Title (fr)

Dispositif de distribution d'une composition à gradient de concentration

Publication

**EP 1092642 B2 20090506 (FR)**

Application

**EP 00402570 A 20000918**

Priority

- FR 9912708 A 19991012
- FR 9913024 A 19991019

Abstract (en)

[origin: EP1092642A1] Container (1) has a first chamber (11) for a product to be dispensed e.g. via a manually-operated pump (5), and a second chamber (12) holding a substance which maintains a pressure on the product to ensure that a constant volume of the product is dispensed. The second chamber is connected to the first via a siphon (30) which allows through a portion of the compression substance each time the dispenser is used.

IPC 8 full level

**A45D 34/02** (2006.01); **B65D 47/20** (2006.01); **B01F 3/08** (2006.01); **B05B 11/00** (2006.01); **B65D 47/34** (2006.01); **B65D 81/32** (2006.01); **B65D 83/76** (2006.01)

CPC (source: EP US)

**B01F 23/45** (2022.01 - EP US); **B05B 11/0037** (2013.01 - EP US); **B05B 11/0078** (2013.01 - EP US); **B05B 11/1081** (2023.01 - EP US)

Citation (opposition)

Opponent :

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Designated contracting state (EPC)

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**EP 1092642 A1 20010418**; **EP 1092642 B1 20030521**; **EP 1092642 B2 20090506**; AR 023274 A1 20020904; AT E240880 T1 20030615; BR 0004860 A 20010529; BR 0004860 B1 20100921; CA 2323132 A1 20010412; CA 2323132 C 20050308; CN 1131824 C 20031224; CN 1297839 A 20010606; DE 60002813 D1 20030626; DE 60002813 T2 20040408; DE 60002813 T3 20091203; ES 2199127 T3 20040216; ES 2199127 T5 20091005; FR 2799444 A1 20010413; FR 2799444 B1 20011214; JP 2001139077 A 20010522; JP 3416106 B2 20030616; MX PA00009772 A 20021216; US 2002113081 A1 20020822; US 6450366 B1 20020917; US 6736169 B2 20040518

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