

Title (en)

Storage and dispensing device for a liquid product

Title (de)

Aufbewahrungs- und Ausgabevorrichtung für flüssige Produkte

Title (fr)

Ensemble de conditionnement et de distribution d'un produit liquide

Publication

EP 0945184 B1 20040225 (FR)

Application

EP 98403342 A 19981230

Priority

FR 9803831 A 19980327

Abstract (en)

[origin: EP0945184A1] The packaging and dispensing unit comprises a closed product reservoir (2) composed of a variable volume one end of which is closed by a rigid base (16). The base has a transverse bottom passed through by a channel (18) integral with the base. A pump (26) placed in the channel communicates with the reservoir. The channel internal wall comprises an annular seal (18d) able to permanently deform radially in a zone (28) of the pump in order to immobilize the pump in the channel. In addition there is a pushbutton (34) provided with a dispensing orifice (38) communicating with the pump rod (32).

IPC 1-7

B05B 11/00; B65D 83/14

IPC 8 full level

B65D 83/76 (2006.01); **A45D 34/00** (2006.01); **B05B 11/00** (2006.01); **B65D 47/34** (2006.01)

CPC (source: EP KR US)

B05B 11/0013 (2013.01 - EP US); **B05B 11/1047** (2023.01 - EP US); **B65D 47/00** (2013.01 - KR); **B05B 11/026** (2023.01 - EP US)

Cited by

FR3021881A1; FR3141865A1; EP2308604A1; FR2951141A1; FR3016815A1; WO2015178913A1; WO2015189489A1; WO2015114255A1; EP1216196B2

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 0945184 A1 19990929; **EP 0945184 B1 20040225**; AR 013025 A1 20001122; CA 2262135 A1 19990927; CA 2262135 C 20040525; CN 1102904 C 20030312; CN 1230509 A 19991006; DE 69821912 D1 20040401; DE 69821912 T2 20050105; ES 2216258 T3 20041016; FR 2776628 A1 19991001; FR 2776628 B1 20000512; JP 2000025861 A 20000125; JP 3095736 B2 20001010; KR 100312057 B1 20011103; KR 19990077595 A 19991025; US 6073805 A 20000613

DOCDB simple family (application)

EP 98403342 A 19981230; AR P990101203 A 19990319; CA 2262135 A 19990301; CN 99104421 A 19990326; DE 69821912 T 19981230; ES 98403342 T 19981230; FR 9803831 A 19980327; JP 8494899 A 19990326; KR 19990007132 A 19990304; US 25630499 A 19990224