

Title (en)

LABYRINTH CAPSULE FOR DRINK POWDER

Title (de)

LABYRINTH-KAPSEL FÜR GETRÄNKEPULVER

Title (fr)

CAPSULE À LABYRINTHE POUR BOISSON EN POUDRE

Publication

EP 2238050 A1 20101013 (DE)

Application

EP 08709807 A 20080206

Priority

IB 2008000321 W 20080206

Abstract (en)

[origin: WO2008087553A1] The labyrinth capsule consists of a cup-shaped capsule (1), the capsule base of which is formed from a labyrinth plate (4) having a labyrinth structure and puncturing pins (14) on its upper side. A hole (10) with a central round stud (12) is located in the labyrinth plate center (5). A sealing film (7) is placed on the labyrinth plate (4) and is welded along its edge to the edge of the labyrinth plate (4). The capsule (1) is sealed on its upper edge (2) with a closure film, thereby closing in the filling. When liquid presses in through the closure film, the sealing film (7) is pressed against the labyrinth plate (4). The puncturing pins (14) puncture the sealing film (7). The liquid flows through the puncture holes and, thereafter, to the lower side of the labyrinth plate (4), to the labyrinth, and drains out between the labyrinth ridges (5). Finally, a laminar liquid stream is formed from the round stud (12) in the spout hole (10).

IPC 8 full level

B65D 85/804 (2006.01)

CPC (source: EP US)

B65D 85/8055 (2020.05 - EP US)

Citation (search report)

See references of WO 2008087553A1

Cited by

DE102015220439A1; WO2015121882A1; WO2018083366A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

WO 2008087553 A1 20080724; WO 2008087553 A8 20100916; AT E506292 T1 20110515; CN 102036885 A 20110427; CN 102036885 B 20120704; DE 502008003326 D1 20110601; EP 2238050 A1 20101013; EP 2238050 B1 20110420; US 2010307930 A1 20101209; US 8499682 B2 20130806

DOCDB simple family (application)

IB 2008000321 W 20080206; AT 08709807 T 20080206; CN 200880126251 A 20080206; DE 502008003326 T 20080206; EP 08709807 A 20080206; US 81280708 A 20080206