

Title (en)

Beverage cartridge, method for fabricating it and corresponding filter

Title (de)

Kartusche für Getränke, Verfahren zu ihrer Herstellung und Filter dafür

Title (fr)

Cartouche à filtre pour boisson, méthode pour la fabriquer et filtre correspondant

Publication

EP 1344724 A1 20030917 (EN)

Application

EP 03251390 A 20030307

Priority

- US 36494002 P 20020314
- US 42431202 P 20021107

Abstract (en)

A beverage cartridge (10) comprises a container (12) having a sidewall (16) extending from a first surface (18) and a lip (40) provided at an open end of the container (12). A cover (14) is coupled to the lip (40) of the container (12) to cover the open end and seal the container. A sloped step (26) is formed in the sidewall (16) and a laminated filter structure is coupled to the sloped step (26). The laminated filter structure subdivides the container (12) to form a brewing chamber (34) and a beverage receiving chamber (36). The laminated filter structure includes first and second filter elements, both having edge portions. A seal is provided between the edge portions of the first and the second filter elements. The second filter element has a higher wet strength than the first filter element and the second filter element is located downstream of the first filter element. A beverage powder is contained in the brewing chamber (34). The container (12) is pierceable to allow injection of liquid into the brewing chamber (34) and to allow prepared beverage to be extracted from the container (12). <IMAGE>

IPC 1-7

B65D 85/804; **A47J 31/06**

IPC 8 full level

B65D 81/00 (2006.01); **B65D 85/804** (2006.01)

CPC (source: EP US)

B65D 85/8061 (2020.05 - EP US)

Citation (applicant)

EP 1101430 A1 20010523 - HALE ROBERT [CA]

Citation (search report)

- [XA] EP 1101430 A1 20010523 - HALE ROBERT [CA]
- [XA] US 2001047724 A1 20011206 - LAZARIS NICHOLAS G [US], et al
- [A] US 5601716 A 19970211 - HEINRICH GUENTER [DE], et al

Cited by

EP2537777A1; ES2641300A1; CN107074438A; EP1772398A1; CN104523150A; US2015158666A1; ITRE20110048A1; CN107074440A; EP2298671A1; EP3431415A1; US11045035B2; US10960453B2; WO2015191565A1; US11939143B2; US8304006B2; US9072402B2; US10336498B2; US10472165B2; US10273076B2; US10669093B2; DE202009017808U1; US10450131B2; WO2010085824A1; WO2016054213A1; US7993691B2; US8202560B2; US8512776B2; US8651012B2; US10737876B2; US11498750B2; US10343838B2; US11084650B2; US11312567B2; US11702276B2; US10730691B2; US10858177B2; US10858176B2; US10870531B2; US2021086986A1; US10994923B2; US11230430B2; US11254491B2; US11465829B2; US11465830B2; US11542094B2; US11548722B2; US11667465B2; US11820586B2; US11919703B2; EP3131833B1; EP2996521B1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 1344724 A1 20030917; **EP 1344724 B1 20060510**; AT E325756 T1 20060615; DE 60305087 D1 20060614; DE 60305087 T2 20061207

DOCDB simple family (application)

EP 03251390 A 20030307; AT 03251390 T 20030307; DE 60305087 T 20030307