

Title (en)

A CAPSULE FOR IMPROVED BEVERAGE QUALITY

Title (de)

KAPSEL FÜR VERBESSERTE GETRÄNKEQUALITÄT

Title (fr)

CAPSULE POUR AMÉLIORER LA QUALITÉ DE BOISSONS

Publication

EP 3102506 A1 20161214 (EN)

Application

EP 15703041 A 20150129

Priority

- EP 14154083 A 20140206
- EP 2015051852 W 20150129

Abstract (en)

[origin: WO2015117892A1] The present invention is directed to a capsule (1) for use in a beverage preparation machine, said capsule comprising : (i) lateral walls (2), a pierceable injection wall (3) adapted to be pierced by fluid injection means (4) of the machine, and a dispensing wall (5) adapted to dispense said beverage, that delimit a closed internal volume, (ii) a flexible fluid distributor wall (7), that is located inside the closed volume of the capsule, at a distance below the pierceable wall (3) so as to separate: - a headspace compartment (8) between the pierceable wall (3) and said fluid distributor wall (7) which is able to accommodate the injection means during injection of the fluid, and - an ingredient compartment (9) located between said fluid distributor wall (7) and said dispensing wall (5), containing a bed of non-soluble beverage ingredient particles, characterized in that the headspace compartment (8) contains a superabsorbent polymer (10) able to absorb a quantity of the injected fluid, and swell so as to fill the headspace compartment (8) and exert a pressure force onto the surface of the fluid distributor wall (7) to prevent substantial movement of ingredient particles while said fluid traverses said ingredient.

IPC 8 full level

B65D 85/804 (2006.01)

CPC (source: EP US)

B65D 85/8043 (2013.01 - EP US)

Citation (search report)

See references of WO 2015117892A1

Designated contracting state (EPC)

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2015117892 A1 20150813; AR 099295 A1 20160713; CN 105939943 A 20160914; EP 3102506 A1 20161214; JP 2017509362 A 20170406; US 2017001795 A1 20170105

DOCDB simple family (application)

EP 2015051852 W 20150129; AR P150100333 A 20150205; CN 201580005686 A 20150129; EP 15703041 A 20150129; JP 2016544417 A 20150129; US 201515116891 A 20150129