

Title (en)

METHOD FOR PREPARING BIODEGRADABLE CAPSULES AND CAPSULES OBTAINED

Title (de)

VERFAHREN ZUR HERSTELLUNG VON BIOLOGISCH ABBAUBAREN KAPSELN UND SO ERHALTENE KAPSELN

Title (fr)

PROCÉDÉ DE PRÉPARATION DE CAPSULES BIODÉGRADABLES ET CAPSULES OBTENUES

Publication

EP 3624932 A1 20200325 (FR)

Application

EP 18722633 A 20180515

Priority

- FR 1754259 A 20170515
- EP 2018062585 W 20180515

Abstract (en)

[origin: WO2018210857A1] The present invention relates to a method for preparing solid microcapsules, comprising the following steps: a) adding, with stirring, a composition C1 to a polymeric composition C2 comprising at least one aliphatic or aromatic ester or polyester, additionally bearing at least one function selected from the group consisting of acrylate, methacrylate, vinyl ether, N-vinyl ether, epoxy, siloxane, amine, lactone, phosphate and carboxylate functions and mixtures thereof, whereby an emulsion (E1) is obtained comprising droplets of composition C1 dispersed in the composition C2; b) adding, with stirring, the emulsion (E1) to a composition C3, whereby a double emulsion (E2) is obtained comprising droplets dispersed in the composition C3; c) applying shear to the emulsion (E2), whereby a double emulsion (E3) is obtained comprising droplets of controlled size dispersed in the composition C3; and d) polymerizing the composition C2, whereby solid microcapsules dispersed in the composition C3 are obtained.

IPC 8 full level

B01J 13/14 (2006.01); **B01F 3/08** (2006.01); **B01J 13/18** (2006.01); **C08F 2/48** (2006.01); **F28D 20/02** (2006.01)

CPC (source: EP KR US)

B01J 13/14 (2013.01 - EP KR); **B01J 13/18** (2013.01 - EP KR US); **C08F 2/30** (2013.01 - EP KR US); **C08F 2/50** (2013.01 - KR US); **C09K 5/063** (2013.01 - KR); **F28D 20/023** (2013.01 - KR); **C08F 2/50** (2013.01 - EP); **C09K 5/063** (2013.01 - EP); **F28D 20/023** (2013.01 - EP)

Citation (search report)

See references of WO 2018210857A1

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)

FR 3066116 A1 20181116; **FR 3066116 B1 20200214**; CN 110785224 A 20200211; EP 3624932 A1 20200325; JP 2020520794 A 20200716; JP 2023095871 A 20230706; KR 20200044724 A 20200429; KR 20240019382 A 20240214; US 11845053 B2 20231219; US 2020164332 A1 20200528; WO 2018210857 A1 20181122

DOCDB simple family (application)

FR 1754259 A 20170515; CN 201880032663 A 20180515; EP 18722633 A 20180515; EP 2018062585 W 20180515; JP 2019563181 A 20180515; JP 2023065518 A 20230413; KR 20197033783 A 20180515; KR 20247003289 A 20180515; US 201816613178 A 20180515