

Title (en)

MICROCAPSULE INCORPORATION IN STRUCTURED LIQUID DETERGENTS

Title (de)

MIKROKAPSEL-AUFNAHME IN STRUKTURIERTEN FLÜSSIGWASCHMITTELN

Title (fr)

INCORPORATION DE MICROCAPSULES DANS DES DÉTERGENTS LIQUIDES STRUCTURÉS

Publication

**EP 2553081 B1 20140108 (EN)**

Application

**EP 11706854 A 20110309**

Priority

- EP 10158692 A 20100331
- EP 2011053561 W 20110309
- EP 11706854 A 20110309

Abstract (en)

[origin: WO2011120772A1] A process for the incorporation of microcapsules with anionic charge into a structured aqueous concentrated liquid detergent comprising at least 30 wt%, preferably at most 65 wt%, total surfactant of which at least 5 wt% based on the total composition is anionic surfactant, including soap, and an external structurant, the process comprising the combining of two premixes; Premix A which is the structured aqueous concentrated liquid detergent composition without microcapsules and Premix B which comprises an aqueous dispersion of the microcapsules with anionic charge, characterised in that: Premix B is a slurry of microcapsules with a maximum viscosity at 25°C of 100 mPas and at least 90 wt% of the microcapsules having a particle size in the range 5 to 30 microns, and that Premix B is added to Premix A and the resulting combined mixture is passed through a static in-line mixer with an energy input of from 20 to 500 J/kg to form, immediately after the mixer, a structured liquid comprising less than 10%, based on the total number of groups of microcapsules, agglomerated groups of microcapsules, an agglomerated group of microcapsules being defined as a group having more than 5 microcapsules grouped together.

IPC 8 full level

**C11D 11/00** (2006.01); **C11D 3/20** (2006.01); **C11D 3/50** (2006.01); **C11D 17/00** (2006.01)

CPC (source: EP)

**C11D 3/2093** (2013.01); **C11D 3/505** (2013.01); **C11D 11/0094** (2013.01); **C11D 17/0026** (2013.01); **C11D 17/0039** (2013.01)

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

DOCDB simple family (publication)

**WO 2011120772 A1 20111006**; AU 2011234744 A1 20121004; AU 2011234744 B2 20140213; BR 112012024804 A2 20170808; BR 112012024804 B1 20201215; CN 102858942 A 20130102; CN 102858942 B 20140709; EP 2553081 A1 20130206; EP 2553081 B1 20140108; ES 2457495 T3 20140428

DOCDB simple family (application)

**EP 2011053561 W 20110309**; AU 2011234744 A 20110309; BR 112012024804 A 20110309; CN 201180016932 A 20110309; EP 11706854 A 20110309; ES 11706854 T 20110309