

Title (en)

CONTINUOUS PRODUCTION OF COPOLYMERS SUITABLE AS FLOW AGENTS

Title (de)

KONTINUIERLICHE HERSTELLUNG VON SICH ALS FLIEßMITTEL EIGNENDEN COPOLYMEREN

Title (fr)

FABRICATION CONTINUE DE COPOLYMÈRES POUVANT SERVIR DE SOLVANTS

Publication

**EP 2340274 A1 20110706 (DE)**

Application

**EP 09783837 A 20091008**

Priority

- EP 2009063070 W 20091008
- EP 08166298 A 20081010
- EP 09783837 A 20091008

Abstract (en)

[origin: WO2010040794A1] The invention relates to a method for producing copolymers comprising acid monomer structural units and polyether macromonomer structural units, carried out in a continuous operational mode in a reactor comprising a) a body B that rotates about an axis of rotation and that comprises a reaction surface, b) a dosing system and c) a device for irradiating the reaction surface, wherein i) through the use of the dosing system, the components of a starting reaction composition are applied in a thin film onto an inner area of the reaction surface of the rotating body B individually and/or as a mixture such that the thin film flows over the reaction surface of the rotating body B to an outer area of the reaction surface of the rotating body B, wherein the thin film on the reaction surface is electromagnetically irradiated using the device for irradiating the reaction surface, ii) the thin film leaves the reaction surface as a reaction composition comprising the copolymer comprising the acid monomer structural units and the polyether macromonomer structural units and iii) the reaction composition is collected after leaving the reaction surface, wherein components of the starting reaction composition include an acid monomer, a polyether macromonomer and a photoinitiator.

IPC 8 full level

**C08G 81/02** (2006.01); **C08F 267/04** (2006.01)

CPC (source: EP US)

**B01J 10/02** (2013.01 - EP US); **B01J 19/123** (2013.01 - EP US); **B01J 19/1887** (2013.01 - EP US); **B01J 19/247** (2013.01 - EP US); **C08F 267/00** (2013.01 - EP US); **C08F 267/04** (2013.01 - EP US); **C08F 283/06** (2013.01 - EP US); **C08F 290/062** (2013.01 - EP US); **C08F 290/142** (2013.01 - EP US); **C08L 51/08** (2013.01 - EP US)

Citation (search report)

See references of WO 2010040794A1

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 MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**WO 2010040794 A1 20100415**; EP 2340274 A1 20110706; US 2011306696 A1 20111215

DOCDB simple family (application)

**EP 2009063070 W 20091008**; EP 09783837 A 20091008; US 200913122663 A 20091008