

Title (en)

METHOD FOR SYNTHESISING POLYMERS BY CONTROLLED-RADICAL INVERSE EMULSION POLYMERISATION

Title (de)

VERFAHREN ZUR SYNTHESE VON POLYMEREN DURCH KONTROLLIERTE RADIKALISCHE INVERSE EMULSIONSPOLYMERISATION

Title (fr)

PROCEDE DE SYNTHESE DE POLYMERES PAR POLYMERISATION RADICALAIRE CONTROLEE EN EMULSION INVERSE

Publication

EP 3877426 A1 20210915 (FR)

Application

EP 19818209 A 20191104

Priority

- FR 1860202 A 20181106
- FR 2019052609 W 20191104

Abstract (en)

[origin: CA3118202A1] The present invention concerns a method for preparing a polymer by inverse emulsion polymerisation comprising the following steps: a) Preparing an aqueous phase comprising at least one water-soluble monomer and at least one water-soluble precursor of formula (I): formula (I) b) Preparing an organic phase comprising a lipophilic solvent and at least one water-in-oil surfactant, c) Mixing the aqueous phase and the organic phase by stirring in order to form an inverse emulsion, d) Once the inverse emulsion is formed, adding a radical polymerisation initiator to the inverse emulsion, and obtaining a polymer by polymerisation of the at least one water-soluble monomer.

IPC 8 full level

C08F 2/32 (2006.01); **C08F 2/38** (2006.01); **C08L 33/26** (2006.01)

CPC (source: EP KR US)

C08F 2/32 (2013.01 - EP KR US); **C08F 2/38** (2013.01 - EP KR US); **C08F 220/06** (2013.01 - US); **C08F 220/56** (2013.01 - KR US); **C08F 293/005** (2013.01 - US); **C08L 33/26** (2013.01 - EP KR); **C08F 2400/02** (2013.01 - US)

Citation (search report)

See references of WO 2020094963A1

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 3088067 A1 20200508; **FR 3088067 B1 20201106**; AR 116985 A1 20210630; AU 2019376489 A1 20210527; AU 2019376489 A8 20210617; CA 3118202 A1 20200514; CN 112969721 A 20210615; EP 3877426 A1 20210915; JP 2022506667 A 20220117; KR 20210088634 A 20210714; US 2021380729 A1 20211209; WO 2020094963 A1 20200514

DOCDB simple family (application)

FR 1860202 A 20181106; AR P190103227 A 20191105; AU 2019376489 A 20191104; CA 3118202 A 20191104; CN 201980072672 A 20191104; EP 19818209 A 20191104; FR 2019052609 W 20191104; JP 2021524203 A 20191104; KR 20217017049 A 20191104; US 201917288594 A 20191104