

Title (en)

WATER-SOLUBLE COPOLYMER AND USE THEREOF AS DISPERSANT FOR SUSPENSION OF PARTICLES

Title (de)

WASSERLÖSLICHES COPOLYMER UND VERWENDUNG DAVON ALS DISPERGIERMITTEL FÜR DIE SUSPENSION VON TEILCHEN

Title (fr)

COPOLYMÈRE HYDROSOLUBLE ET SON UTILISATION COMME DISPERSANT POUR SUSPENSION DE PARTICULES

Publication

EP 3440137 A1 20190213 (FR)

Application

EP 17720182 A 20170329

Priority

- US 201662318907 P 20160406
- FR 1653718 A 20160427
- FR 2017050718 W 20170329

Abstract (en)

[origin: WO2017174899A1] The invention relates to the field of preparing aqueous dispersions of organic, organometallic or inorganic particles. In particular, the invention relates to the preparation of aqueous suspensions comprising organic, organometallic or inorganic particles and at least one particular copolymer obtained by polymerization of at least one acid and at least one compound or at least one ester derived from a particular acid, in the presence of water, at least one initiator compound and at least one activator compound, followed by total or partial neutralization by means of at least one compound chosen from alkali metal hydroxides, alkaline earth metal hydroxides, alkaline earth metal dihydroxides and mixtures thereof. The invention relates to such a particular copolymer having a low polydispersity index and weight-average molecular weight, the preparation process thereof and the use thereof, especially for the preparation of an aqueous paint composition.

IPC 8 full level

C09D 7/45 (2018.01); **C08F 220/18** (2006.01); **C08F 220/20** (2006.01); **C11D 3/37** (2006.01)

CPC (source: EP US)

C08F 220/06 (2013.01 - US); **C08F 220/20** (2013.01 - US); **C08F 220/285** (2020.02 - US); **C08F 220/286** (2020.02 - US); **C08K 3/22** (2013.01 - US); **C08L 33/02** (2013.01 - EP); **C09D 5/027** (2013.01 - EP); **C09D 5/028** (2013.01 - US); **C09D 7/45** (2017.12 - EP); **C09D 133/02** (2013.01 - EP US); **C11D 3/3746** (2013.01 - EP); **C08K 2003/2241** (2013.01 - US); **C09D 133/06** (2013.01 - US); **C09D 133/08** (2013.01 - US); **C09D 133/10** (2013.01 - US)

C-Set (source: EP)

1. **C09D 133/02** + **C08L 2666/54**
2. **C08F 220/06** + **C08F 220/20**

Citation (search report)

See references of WO 2017174899A1

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 2017174899 A1 20171012; CA 3018451 A1 20171012; CN 108884337 A 20181123; EP 3440137 A1 20190213; FR 3050733 A1 20171103; FR 3050733 B1 20210212; MX 2018011389 A 20190213; US 11447588 B2 20220920; US 2020291152 A1 20200917

DOCDB simple family (application)

FR 2017050718 W 20170329; CA 3018451 A 20170329; CN 201780020230 A 20170329; EP 17720182 A 20170329; FR 1653718 A 20160427; MX 2018011389 A 20170329; US 201716088225 A 20170329