

Title (en)
RHEOLOGICAL ADDITIVE BASED ON OPTIONALLY BIOSOURCED 1,5-PENTAMETHYLENEDIAMINE

Title (de)
RHEOLOGISCHES ADDITIV AUF DER BASIS VON OPTIONAL AUS BIOLOGISCHER QUELLE STAMMENDEM 1,5-PENTAMETHYLENDIAMIN

Title (fr)
ADDITIF DE RHEOLOGIE A BASE DE 1,5-PENTAMETHYLENE DIAMINE, EVENTUELLEMENT BIOSOURCEE

Publication
EP 3870642 A1 20210901 (FR)

Application
EP 19813376 A 20191018

Priority
• FR 1859908 A 20181026
• FR 2019052478 W 20191018

Abstract (en)
[origin: WO2020084231A1] The invention relates to a rheology additive wherein: A) said additive consists of: a) at least one symmetrical fatty diamide of the following formula (I): (AGH)-CONH-(PMDA)-NHCO-(AGH) (I) where: - (AGH) is a hydroxylated fatty acid residue R 1 CO 2 H, without a -CO2H group, with R1 in C18 to C20 having a hydroxyl group; -NHCO- or -CONH- is an amide group; -(PMDA) is a residue without amine groups of 1,5-pentamethylenediamine, preferably cadaverine diamine which is the biosourced diamine 1,5-pentamethylenediamine; or, alternatively, according to B) said additive comprises: a) at least one symmetrical fatty diamide as defined above in formula (I) and, in addition, b) at least one further symmetrical fatty diamide of the following formula (II): (AGH)-CONH-(R)-NHCO-(AGH) (II) where (AGH), -NHCO- and -CONH- have the same definition as above in formula (I) and (R) is the residue without amine groups of a diamine other than (PMDA), chosen from a cycloaliphatic, aliphatic or aromatic diamine. The invention also relates to binder compositions comprising said additive, for use in coatings, glues or adhesives, moulding compositions, mastics, sealants or cosmetics, and to finished products produced therewith.

IPC 8 full level
C08K 5/20 (2006.01); **A61K 8/42** (2006.01); **C07C 235/10** (2006.01); **C09D 7/43** (2018.01); **C09J 11/06** (2006.01)

CPC (source: EP KR US)
A61K 8/42 (2013.01 - EP KR); **A61Q 19/00** (2013.01 - EP KR); **C07C 235/10** (2013.01 - US); **C08K 5/20** (2013.01 - EP KR US); **C08L 63/00** (2013.01 - KR); **C09D 7/43** (2018.01 - EP KR US); **A61K 2800/48** (2013.01 - EP); **C08K 2201/014** (2013.01 - EP)

C-Set (source: EP)
C08K 5/20 + C08L 63/00

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 2020084231 A1 20200430; CN 112955501 A 20210611; CN 112955501 B 20230314; EP 3870642 A1 20210901; FR 3087779 A1 20200501; FR 3087779 B1 20211008; JP 2022505753 A 20220114; JP 7447106 B2 20240311; KR 20210084510 A 20210707; TW 202024022 A 20200701; TW I707837 B 20201021; US 2021380527 A1 20211209

DOCDB simple family (application)
FR 2019052478 W 20191018; CN 201980070556 A 20191018; EP 19813376 A 20191018; FR 1859908 A 20181026; JP 2021522411 A 20191018; KR 20217015095 A 20191018; TW 108138640 A 20191025; US 201917288100 A 20191018