

Title (en)
USE OF POLY(OXYALKYLENE)OXY- AND/OR POLY(OXYALKYLENE)AMINOALKYLTRIALKOXYSILANES AS DISPERSANTS

Title (de)
VERWENDUNG VON POLY(OXYALKYLEN)OXY- BZW. POLY(OXYALKYLEN)AMINOALKYLTRIALKOXYSILANEN ALS DISPERGIERMITTEL

Title (fr)
UTILISATION DE POLY(OXYALKYLÈNE)OXY-AMINOALKYLTRIALCOXYSILANES OU DE POLY(OXYALKYLÈNE)AMINOALKYLTRIALCOXYSILANES COMME AGENTS DISPERSANTS

Publication
EP 3052452 A1 20160810 (DE)

Application
EP 14777340 A 20140930

Priority

- EP 13187182 A 20131002
- EP 2014070912 W 20140930
- EP 14777340 A 20140930

Abstract (en)
[origin: WO2015049227A1] The present invention relates to the use of poly(oxyalkylene)oxy- and/or poly(oxyalkylene)aminoalkyltrialkoxysilanes of the general formula (I) where the symbols and indices in the formula (I) have the following definitions: -X- is -O- or -N(R4)2-a-; -Y- is -CH2-; -z- is -O-(CH2)d-C(R5)2-c-; a is 1 if -X- = -O-, and 1 or 2 if -X- = -N(R4)2-a-; b is 0 or 1; c is 0, 1 or 2; d is 0 or 1; m is selected independently from an integer from 1 to 6; p is a number from 7 to 200; R1 is identical or different and selected from the group consisting of methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, sec-butyl, tert-butyl, and phenyl; R2 is H or methyl; R3, R4, R5 are each identical or different and selected independently from the group consisting of H and linear or branched C1-C6 alkyl; R6 is identical or different and selected independently from the group consisting of H, methyl and ethyl; and R7 is selected from the group consisting of H, linear or branched C1-C6 alkyl, linear or branched C1-C10 alkanoyl, and C6-C10 aryloyl; as dispersants for aqueous suspensions composed of aggregates and hydraulic binders, and also to the aqueous suspensions as such. The invention also relates to a process for preparing the alkyltrialkoxysilanes, and to the alkyltrialkoxysilanes as such.

IPC 8 full level
C04B 24/42 (2006.01); **C04B 28/00** (2006.01); **C04B 28/02** (2006.01); **C08G 65/336** (2006.01)

CPC (source: EP KR US)
C04B 14/42 (2013.01 - KR); **C04B 24/42** (2013.01 - EP KR US); **C04B 28/006** (2013.01 - EP KR US); **C04B 28/02** (2013.01 - EP KR US); **C08G 65/336** (2013.01 - EP US); **C08G 77/18** (2013.01 - KR); **C04B 2103/408** (2013.01 - EP KR US); **C08G 2650/50** (2013.01 - EP US); **Y02P 40/10** (2015.11 - EP KR US)

Citation (search report)
See references of WO 2015049227A1

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 2015049227 A1 20150409; CN 105612134 A 20160525; EP 3052452 A1 20160810; KR 20160065850 A 20160609; US 2016297928 A1 20161013

DOCDB simple family (application)
EP 2014070912 W 20140930; CN 201480054503 A 20140930; EP 14777340 A 20140930; KR 20167008778 A 20140930; US 201415026373 A 20140930