

Title (en)

ORGANOSILICON COMPOUNDS HAVING AMINO ACID MOIETIES, AND PROCESS FOR PREPARATION THEREOF

Title (de)

AMINOSÄURE-GRUPPIERUNGEN AUFWEISENDE ORGANOSILICIUMVERBINDUNGEN UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)

COMPOSÉS D'ORGANOSILICIUM PRÉSENTANT DES GROUPEMENTS ACIDES AMINÉS ET PROCÉDÉ DE PRODUCTION DESDITS COMPOSÉS

Publication

**EP 3303452 A1 20180411 (DE)**

Application

**EP 16726848 A 20160530**

Priority

- DE 102015210171 A 20150602
- EP 2016062104 W 20160530

Abstract (en)

[origin: WO2016193189A1] The invention provides a process for preparing organosilicon compounds (O) which contain free amino acid moieties and contain at least one unit of the general formula (I) and no unit or at least one unit of the general formula (II),  $R_1 b(X)cSiO[4-(b+c)]/2$  (I),  $R_2 aSiO(4-a)/2$  (II), in which epoxy-functional organosilicon compounds composed of at least one unit of the general formula (III) and no unit or at least one unit of the general formula (II),  $R_1 b(Z)cSiO[4-(b+c)]/2$  (III),  $R_2 aSiO(4-a)/2$  (II), where Z has the definition (formula A), are reacted with unprotected amino acids of the general formula (IV):  $H-NR_7-(CH_2)_f-CR_8R_9-COOH$ , in the presence of aliphatic alcohols, where  $R_1, R_2, R_4, R_5, R_6, R_7, R_8, R_9, X, Z, Y, a, b, c, e$  and  $f$  have the definitions given in claim 1, the organosilicon compounds (O) which contain free amino acid moieties and are preparable by the process, and uses for the organosilicon compounds (O).

IPC 8 full level

**C08G 77/388** (2006.01)

CPC (source: EP KR US)

**A61K 8/89** (2013.01 - KR); **A61Q 19/00** (2013.01 - KR); **C08G 77/14** (2013.01 - KR); **C08G 77/388** (2013.01 - EP KR US); **C08K 5/05** (2013.01 - EP KR US); **C08K 5/175** (2013.01 - EP KR US); **C08L 83/06** (2013.01 - EP KR US); **C08G 77/14** (2013.01 - EP US)

Citation (search report)

See references of WO 2016193189A1

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)

**DE 102015210171 A1 20161208**; CN 107636048 A 20180126; EP 3303452 A1 20180411; JP 2018522092 A 20180809; KR 20170140323 A 20171220; KR 20190075180 A 20190628; US 2018155502 A1 20180607; WO 2016193189 A1 20161208

DOCDB simple family (application)

**DE 102015210171 A 20150602**; CN 201680027336 A 20160530; EP 16726848 A 20160530; EP 2016062104 W 20160530; JP 2017562706 A 20160530; KR 20177033941 A 20160530; KR 20197017924 A 20160530; US 201615572989 A 20160530