

Title (en)

METHOD FOR PRODUCING AMINOALKYLALKOXYSILANES

Title (de)

VERFAHREN ZUR HERSTELLUNG VON AMINOALKYLALKOXYSILANEN

Title (fr)

PROCÉDÉ DE PRODUCTION D'AMINOALKYLALCOXYSILANES

Publication

**EP 2828270 A1 20150128 (DE)**

Application

**EP 13709393 A 20130306**

Priority

- DE 102012204315 A 20120319
- EP 2013054503 W 20130306

Abstract (en)

[origin: WO2013139604A1] The invention relates to a method for synthesizing aminoalkylalkoxysilanes of the general formula I  $RR'N-X-Si(R_1)_n(OR_2)_3-n$ , and hydrohalogenides thereof, by reacting the halogen (alkylhalogen) silane of the general formula II  $Y-X-Si(R_1)_nZ^{3-n}$  II, with ammonia or an organic amine of the general formula III,  $R-NH-R'$ , and an alcohol of the general formula IV,  $R_2-OH$ , where R and R' denote hydrogen or hydrocarbon residual having 1 to 12 C-atoms, wherein non-adjacent carbon atoms can be replaced by nitrogen atoms or oxygen atoms, R1 means hydrocarbon residual having 1 to 8 C-atoms, wherein non-adjacent carbon atoms can be replaced by oxygen atoms, R2 denotes an alkyl group having 1 to 8 C-atoms, wherein non-adjacent carbon atoms can be replaced by oxygen, X denotes a bivalent alkyl group having 1 to 12 C-atoms, Y and Z denotes halogen and n denotes the values 0, 1 or 2.

IPC 8 full level

**C07F 7/18** (2006.01)

CPC (source: EP US)

**C07F 7/1804** (2013.01 - EP US); **C07F 7/188** (2013.01 - EP US)

Citation (search report)

See references of WO 2013139604A1

Cited by

WO2019154479A1; US11440926B2

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 102012204315 A1 20130919**; CN 104203963 A 20141210; EP 2828270 A1 20150128; JP 2015510902 A 20150413; KR 20140129387 A 20141106; US 2015051418 A1 20150219; US 9181284 B2 20151110; WO 2013139604 A1 20130926

DOCDB simple family (application)

**DE 102012204315 A 20120319**; CN 201380015213 A 20130306; EP 13709393 A 20130306; EP 2013054503 W 20130306; JP 2015500826 A 20130306; KR 20147029111 A 20130306; US 201314386167 A 20130306