

Title (en)
AUTOCATALYZED, THERMOSETTING MATERIALS THAT ARE FREE FROM EXTERNAL CATALYSTS AND ARE BASED ON CONDENSATES OF EPOXY-FUNCTIONAL SILANES, AND USE THEREOF FOR THE PRODUCTION OF THERMOSETTING MATERIALS

Title (de)
VON EXTERNEN KATALYSATOREN FREIE, AUTOKATALYSIERTE, THERMISCH HÄRTBARE MASSEN AUF DER BASIS VON KONDENSATEN EPOXYFUNKTIONELLER SILANE UND IHRE VERWENDUNG ZUR HERSTELLUNG THERMISCH GEHÄRTETER MASSEN

Title (fr)
MATIERES THERMODURCISSABLES AUTOCATALYSEES EXEMPTES DE CATALYSEURS EXTERNES, A BASE DE CONDENSATS DE SILANES A FONCTION EPOXY, ET LEUR UTILISATION POUR PRODUIRE DES MATIERES THERMODURCIES

Publication
EP 1620513 A2 20060201 (DE)

Application
EP 04729104 A 20040423

Priority
• EP 2004004318 W 20040423
• DE 10320432 A 20030508

Abstract (en)
[origin: WO2004099322A2] Disclosed are autocatalyzed, thermosetting materials that are free from external catalysts and contain condensates of silanes comprising hydrolyzable atoms and/or hydrolyzable groups and (i) non-hydrolyzable groups which comprise epoxide groups and are free from isocyanate adduct groups as well as non-hydrolyzable, epoxide group-free groups with (a) bivalent, bonding -NH-C(X)-X- and/or -X(X)C-NH- urethane groups, (b) bivalent, bonding -HN-C(X)-NH- urea groups, and/or (c) monovalent, terminal Y-C(X)-NH- groups, wherein the variable X represents an oxygen atom or sulfur atom while the variable Y represents the radical of a blocking agent for isocyanate groups; or (ii) non-hydrolyzable groups with epoxide groups and groups (a), (b), and/or (c); or (iii) non-hydrolyzable groups with epoxide groups, which are free from isocyanate adduct groups, non-hydrolyzable, epoxide group-free groups with groups (a), (b), and/or (c), and non-hydrolyzable groups with epoxide groups and groups (a), (b), and/or (c). Also disclosed are a method for the production of the inventive autocatalyzed, thermosetting materials and the use thereof for producing thermosetting materials.

IPC 1-7
C09D 4/00; C09D 183/08; C08L 83/08

IPC 8 full level
C09D 4/00 (2006.01)

CPC (source: EP US)
C08G 18/807 (2013.01 - EP US); **C09D 4/00** (2013.01 - EP US); **Y10T 428/31511** (2015.04 - EP US); **Y10T 428/31663** (2015.04 - EP US)

Citation (search report)
See references of WO 2004099322A2

Citation (examination)
EP 0610831 A2 19940817 - FRAUNHOFER GES FORSCHUNG [DE]

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2004099322 A2 20041118; **WO 2004099322 A3 20050210**; DE 10320432 A1 20041202; EP 1620513 A2 20060201; JP 2006525388 A 20061109; JP 4714141 B2 20110629; US 2007166550 A1 20070719; US 7501480 B2 20090310

DOCDB simple family (application)
EP 2004004318 W 20040423; DE 10320432 A 20030508; EP 04729104 A 20040423; JP 2006505238 A 20040423; US 55546904 A 20040423