

Title (en)
PIGMENTS THAT ARE AT LEAST PARTIALLY SHEATHED IN RADIATION-CURABLE POLYURETHANE, THEIR PRODUCTION AND USE

Title (de)
MIT STRAHLUNGSHÄRTBAREM POLYURETHAN ZUMINDEST PARTIELL UMHÜLLTE PIGMENTE, IHRE HERSTELLUNG UND VERWENDUNG

Title (fr)
PIGMENTS PARTIELLEMENT RECOUVERTS DE POLYURETHANNE, LEUR PRODUCTION ET LEUR UTILISATION

Publication
EP 1856172 A1 20071121 (DE)

Application
EP 06708487 A 20060223

Priority
• EP 2006060233 W 20060223
• DE 102005008930 A 20050224
• DE 102005008932 A 20050224

Abstract (en)
[origin: WO2006089934A1] The invention relates to an aqueous dispersion containing a pigment (B) that is at least partially sheathed in at least one radiation-curable polyurethane (A). Said radiation-curable polyurethane (A) is obtained by the reaction of (a) at least one diisocyanate with (b) at least one compound comprising at least two groups that are capable of reacting with isocyanate and (c) at least one compound of general formula (I), in which the variables are defined as follows: R¹ and R² are identical or different and selected independently of one another from hydrogen and C₁₋₁₀ alkyl; X¹ is selected from oxygen and N-R³; A¹ is selected from C₁₋₂₀ alkene, which is unsubstituted or mono- or polyvalently substituted by C₁₋₄ alkyl, phenyl or O-C₁₋₄ alkyl, whereby in the C₁₋₂₀ alkene one or more non-adjacent CH₂ groups can be replaced by oxygen; X² is selected from hydroxyl and NH-R³, where R³ is identical or different and selected from hydrogen, C₁₋₁₀ alkyl and phenyl.

IPC 8 full level
C08G 18/08 (2006.01); **C08G 18/67** (2006.01); **C08J 3/03** (2006.01); **C09D 11/00** (2006.01); **C09D 17/00** (2006.01)

CPC (source: EP US)
B82Y 30/00 (2013.01 - EP US); **C08G 18/0823** (2013.01 - EP US); **C08G 18/12** (2013.01 - EP US); **C08G 18/423** (2013.01 - EP US); **C08G 18/6659** (2013.01 - EP US); **C08G 18/755** (2013.01 - EP US); **C08G 18/8116** (2013.01 - EP US); **C09C 1/56** (2013.01 - EP US); **C09C 3/10** (2013.01 - EP US); **C09D 11/101** (2013.01 - EP US); **C09D 11/322** (2013.01 - EP US); **C09D 175/16** (2013.01 - EP US); **C01P 2004/61** (2013.01 - EP US); **C01P 2004/62** (2013.01 - EP US); **C01P 2004/64** (2013.01 - EP US); **C01P 2006/22** (2013.01 - EP US); **C08K 9/10** (2013.01 - EP US)

C-Set (source: EP US)
C08G 18/12 + **C08G 18/3275**

Citation (search report)
See references of WO 2006089934A1

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

DOCDB simple family (publication)
WO 2006089934 A1 20060831; CA 2598970 A1 20060831; EP 1856172 A1 20071121; JP 2008531779 A 20080814; US 2008146691 A1 20080619

DOCDB simple family (application)
EP 2006060233 W 20060223; CA 2598970 A 20060223; EP 06708487 A 20060223; JP 2007556610 A 20060223; US 81570406 A 20060223