

Title (en)
URETHANE DISPERSANTS

Title (de)
URETHANDISPERSIONSMITTEL

Title (fr)
DISPERSANTS À BASE D'URÉTHANE

Publication
EP 3046661 A4 20161012 (EN)

Application
EP 14843193 A 20141125

Priority
CN 2014001051 W 20141125

Abstract (en)
[origin: WO2016082058A1] A urethane type dispersant comprising segments derived from: (1) one or more polyisocyanates having at least 2.0 isocyanate groups, (2) a mono-functional compound having an isocyanate reactive functional moiety; and (3) a polyamine having an amine functionality of two or more. The dispersant can be made in a solvent-free manufacturing process. The dispersant can be applied in water-based pigment dispersion system.

IPC 8 full level
C09K 23/00 (2022.01); **C08G 18/32** (2006.01); **C08G 18/40** (2006.01); **C09D 7/45** (2018.01)

CPC (source: CN EP US)
C08G 18/10 (2013.01 - CN EP); **C08G 18/283** (2013.01 - EP); **C08G 18/3228** (2013.01 - CN EP); **C08G 18/6685** (2013.01 - CN); **C08G 18/73** (2013.01 - CN); **C08G 18/755** (2013.01 - CN EP); **C08G 18/7614** (2013.01 - CN); **C08G 18/7621** (2013.01 - EP); **C09B 67/009** (2013.01 - EP); **C09D 17/001** (2013.01 - CN); **C09D 17/003** (2013.01 - CN); **C09D 17/004** (2013.01 - CN); **C09K 23/16** (2022.01 - CN EP US)

Citation (search report)
• [X] WO 0110923 A1 20010215 - DU PONT [US]
• [X] US 4929705 A 19900529 - MAZANEK JAN [DE], et al
• [X] US 4647647 A 19870303 - HAUBENNESTEL KARLHEINZ [DE], et al
• [X] JP 2010189514 A 20100902 - TOYO INK MFG CO
• [I] US 5910556 A 19990608 - WAMPRECHT CHRISTIAN [DE], et al
• See references of WO 2016082058A1

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 2016082058 A1 20160602; CN 106146796 A 20161123; EP 3046661 A1 20160727; EP 3046661 A4 20161012

DOCDB simple family (application)
CN 2014001051 W 20141125; CN 201510144172 A 20150330; EP 14843193 A 20141125