

Title (en)  
SELF-DISPERSED PIGMENTS AND METHODS FOR MAKING AND USING THE SAME

Title (de)  
SELBSTDISPERGIERTE PIGMENTE UND IHRE HERSTELLUNG UND VERWENDUNG

Title (fr)  
PIGMENTS AUTO-DISPERSES ET PROCEDES POUR LES FABRIQUER ET LES UTILISER

Publication  
**EP 2326688 A2 20110601 (EN)**

Application  
**EP 09791815 A 20090821**

Priority  

- US 2009054700 W 20090821
- US 9130008 P 20080822
- US 19708708 A 20080822
- US 9430708 P 20080904
- US 15468609 P 20090223

Abstract (en)  
[origin: WO2010022377A2] A modified pigment that may include a polymer. The pigment may be directly attached to a nitrogen atom. The nitrogen atom may be attached directly or indirectly to a group that may include -S-Z. S may be a substituted or unsubstituted alkyl group, substituted or unsubstituted aromatic group, or polymer chain having a molecular weight range from about 300 to about 20000. Z may be a hydrogen, carboxyl, sulfonyl, phenolic, phosphoryl, ammonium, trimethylammonium, or tributylammonium group. Also, a modified pigment that may include a polymer. The pigment may be attached to an organic group through a carbon atom that is part of a N-C=N bond. A cosmetic formulation that may include a pigment covalently bonded to an organic group.

IPC 8 full level  
**C09B 67/00** (2006.01); **C09B 67/08** (2006.01); **C09B 67/22** (2006.01); **C09B 67/40** (2006.01); **C09C 1/56** (2006.01); **C09D 7/62** (2018.01); **C09D 11/02** (2006.01)

CPC (source: EP KR US)  
**A61K 8/044** (2013.01 - EP); **A61K 8/4966** (2013.01 - EP); **A61Q 1/10** (2013.01 - EP); **C09B 67/00** (2013.01 - KR); **C09B 67/0004** (2013.01 - KR); **C09B 67/0009** (2013.01 - EP); **C09B 67/0013** (2013.01 - EP); **C09B 67/0033** (2013.01 - KR); **C09B 67/0066** (2013.01 - EP); **C09B 68/41** (2013.01 - EP); **C09B 68/4257** (2013.01 - EP); **C09B 68/427** (2013.01 - EP); **C09B 68/446** (2013.01 - EP); **C09C 1/56** (2013.01 - EP KR US); **C09D 7/41** (2017.12 - EP US); **C09D 7/62** (2017.12 - EP US); **C09D 11/322** (2013.01 - EP); **C09D 11/324** (2013.01 - EP); **C09D 15/00** (2013.01 - EP); **C09D 17/004** (2013.01 - EP); **A61K 2800/43** (2013.01 - EP); **A61K 2800/614** (2013.01 - EP); **A61K 2800/94** (2013.01 - EP); **C01P 2002/85** (2013.01 - EP); **C01P 2006/60** (2013.01 - EP); **C01P 2006/62** (2013.01 - EP); **C01P 2006/63** (2013.01 - EP); **C01P 2006/64** (2013.01 - EP); **C01P 2006/65** (2013.01 - EP); **C01P 2006/66** (2013.01 - EP); **C08K 3/04** (2013.01 - EP); **C08K 9/08** (2013.01 - EP)

Citation (search report)  
See references of WO 2010022377A2

Designated contracting state (EPC)  
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 SE SI SK SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**WO 2010022377 A2 20100225**; **WO 2010022377 A3 20101111**; AU 2009282715 A1 20100225; CA 2735049 A1 20100225; CN 102203192 A 20110928; EP 2326688 A2 20110601; JP 2012500866 A 20120112; KR 20110051253 A 20110517

DOCDB simple family (application)  
**US 2009054700 W 20090821**; AU 2009282715 A 20090821; CA 2735049 A 20090821; CN 200980142183 A 20090821; EP 09791815 A 20090821; JP 2011524058 A 20090821; KR 20117006405 A 20090821