

Title (en)
GEL-PHASE COLORANT DISPERSIONS FOR COATING COMPOSITIONS

Title (de)
GELPHASEN-FÄRBEDISPERSIONEN FÜR BESCHICHTUNGSZUSAMMENSETZUNGEN

Title (fr)
DISPERSIONS DE COLORANT EN PHASE GEL POUR COMPOSITIONS DE REVETEMENT

Publication
EP 1891173 A2 20080227 (EN)

Application
EP 06773459 A 20060616

Priority
• US 2006023687 W 20060616
• US 69203205 P 20050617

Abstract (en)
[origin: US2006282959A1] The present invention is a novel gel-phase colorant dispersion comprising (a) a gel-phase colorant comprising the reaction product of (1) a reactive material component, (2) a reactive colorant, and (3) a crosslinker having reactive groups capable of forming a bond with the reactive material component and the reactive colorant; and (b) a dispersion medium, wherein the dispersion medium can be an aqueous or non-aqueous-based dispersion. The gel-phase colorant dispersion of this invention can then be mixed or blended with typical coating materials. This invention is also directed to a method of preparing coating compositions comprising a binder phase of an aqueous or non-aqueous-based dispersion and a gel-phase colorant dispersion, and in particular, a method comprising the steps of (1) preparing at least one gel-phase colorant dispersion comprising a gel-phase colorant comprising a reaction product of (a) a reactive material component, (b) a reactive colorant, and (c) a crosslinker having reactive groups capable of forming a bond with the reactive material component and the reactive colorant; dispersed in a dispersion medium; and (2) mixing or blending the gel-phase colorant dispersion with typical coating materials. The coating composition can also comprise one or more independent gel-phase colorant dispersions. This invention is also directed to a process for achieving a multicolor faux finish pattern on a surface utilizing a gel-phase colorant dispersion-based one-pack multiphase coating composition. This invention is also directed to a two-layer coating system comprising a topcoat and an undercoat, wherein the topcoat is a waterborne dispersion comprising a gel-phase colorant dispersion comprising a gel-phase colorant comprising a reaction product of: (1) a reactive material component, (2) a reactive colorant, and (3) a crosslinker having reactive groups capable of forming a bond with the reactive material (a) component and the reactive colorant; and (b) a dispersion medium and wherein the undercoat is a waterborne dispersion comprising one or more highly water-absorbent pigments.

IPC 8 full level
C08G 18/38 (2006.01); **C09D 17/00** (2006.01)

CPC (source: EP US)
B05D 5/06 (2013.01 - EP US); **B05D 5/061** (2013.01 - EP US); **B44F 1/08** (2013.01 - EP US); **C08G 18/792** (2013.01 - EP US); **C09B 69/10** (2013.01 - EP US); **C09D 17/00** (2013.01 - EP US); **C09D 17/001** (2013.01 - EP US); **C09D 175/06** (2013.01 - EP US); **B05D 1/40** (2013.01 - EP US); **B05D 7/544** (2013.01 - EP US)

Citation (search report)
See references of WO 2006138685A2

Citation (examination)
EP 0769509 A2 19970423 - TEKTRONIX INC [US]

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
US 2006282959 A1 20061221; BR PI0614046 A2 20110309; CA 2611494 A1 20061228; CA 2611494 C 20140805; EP 1891173 A2 20080227; MX 2007016135 A 20080306; WO 2006138685 A2 20061228; WO 2006138685 A3 20070607

DOCDB simple family (application)
US 42474006 A 20060616; BR PI0614046 A 20060616; CA 2611494 A 20060616; EP 06773459 A 20060616; MX 2007016135 A 20060616; US 2006023687 W 20060616