

Title (en)

METHOD FOR PRODUCING COLOR FORMULAS COMPRISING EFFECT PIGMENTS

Title (de)

VERFAHREN ZUR HERSTELLUNG EFFEKTPIGMENTHALTIGER FARBREZEPTUREN

Title (fr)

PROCÉDÉ DE FABRICATION DE FORMULATIONS DE PEINTURES CONTENANT DES PIGMENTS À EFFETS

Publication

**EP 2269014 A1 20110105 (DE)**

Application

**EP 09732196 A 20090409**

Priority

- EP 2009002625 W 20090409
- DE 102008018910 A 20080414

Abstract (en)

[origin: WO2009127356A1] The invention relates to a method for producing color formulas comprising effect pigments adapted to a color pattern, comprising the steps (a) creating a calibration table for each pigment contained in the coloring system of a color pattern comprising effect pigments, (b) experimentally determining the reflection values  $R?$  of the color pattern and the calibration tables, (c) calculating the optical material parameter of the color pattern and the components of the coloring system, (d) choosing a suitable starting formula, (e) determining the remaining color difference between the starting formula and the color pattern, (f) creating a first adapted color formula (g) and repeating the steps (e) and (f) until an acceptable remaining color difference between the adapted color formula and the color pattern is obtained, wherein (i) the reflection values  $R?$  of the color pattern and the calibration tables are transformed by means of a suitable mathematical function in such a way that all transformed reflection values  $R'?$  are between 0 and 1, and (ii) the calculation of the optical material parameter is carried out according to the Kubelka-Munk approximation while using the transformed reflection values  $R'?$ .

IPC 8 full level

**C09D 7/80** (2018.01); **G01N 21/25** (2006.01); **G01J 3/46** (2006.01)

CPC (source: EP US)

**G01J 3/46** (2013.01 - EP US); **G01J 3/463** (2013.01 - EP US); **G01N 21/25** (2013.01 - EP US)

Citation (search report)

See references of WO 2009127356A1

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 TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**WO 2009127356 A1 20091022**; CN 102007390 A 20110406; DE 102008018910 A1 20091231; EP 2269014 A1 20110105; JP 2011516699 A 20110526; KR 20110003527 A 20110112; US 2011058173 A1 20110310

DOCDB simple family (application)

**EP 2009002625 W 20090409**; CN 200980112685 A 20090409; DE 102008018910 A 20080414; EP 09732196 A 20090409; JP 2011504354 A 20090409; KR 20107025239 A 20090409; US 93674209 A 20090409