

Title (en)

EFFECT PIGMENT, PRODUCTION METHOD, VALUE DOCUMENT AND PRINTING INK

Title (de)

EFFEKTPIGMENT, HERSTELLUNGSVERFAHREN, WERTDOKUMENT UND DRUCKFARBE

Title (fr)

PIGMENT À EFFET, PROCÉDÉ DE PRODUCTION, DOCUMENT DE VALEUR ET ENCRE D'IMPRESSION

Publication

EP 4065381 A1 20221005 (DE)

Application

EP 20815714 A 20201120

Priority

- DE 102019008289 A 20191127
- EP 2020025525 W 20201120

Abstract (en)

[origin: WO2021104666A1] The invention relates to a platelet-shaped magnetic effect pigment for use in a printing ink, comprising a layer structure with a magnetic layer and an optical functional layer, wherein the magnetic layer is based on a magnetic material with a columnar nanostructure and the magnetic columns each have a substantially uniform magnetic preferred direction that deviates from the platelet plane.

IPC 8 full level

B42D 25/369 (2014.01); **B05D 3/00** (2006.01); **B05D 5/06** (2006.01); **B42D 25/29** (2014.01); **B42D 25/41** (2014.01); **C09C 1/00** (2006.01); **C09D 11/037** (2014.01)

CPC (source: EP US)

B41M 3/14 (2013.01 - US); **B41M 7/0072** (2013.01 - US); **B42D 25/29** (2014.10 - EP); **B42D 25/369** (2014.10 - EP US); **B42D 25/41** (2014.10 - EP); **C09C 1/0015** (2013.01 - EP); **C09C 1/0021** (2013.01 - US); **C09C 1/0078** (2013.01 - US); **C09D 11/037** (2013.01 - EP US); **C09D 11/101** (2013.01 - EP US); **C09D 11/50** (2013.01 - US); **H01F 1/0551** (2013.01 - US); **B05D 3/207** (2013.01 - EP); **B05D 5/065** (2013.01 - EP); **B42D 25/23** (2014.10 - US); **B42D 25/29** (2014.10 - US); **C01P 2006/42** (2013.01 - EP US)

Citation (search report)

See references of WO 2021104666A1

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)

DE 102019008289 A1 20210527; CN 114728537 A 20220708; CN 114728537 B 20231031; EP 4065381 A1 20221005; US 2022403177 A1 20221222; WO 2021104666 A1 20210603

DOCDB simple family (application)

DE 102019008289 A 20191127; CN 202080082734 A 20201120; EP 2020025525 W 20201120; EP 20815714 A 20201120; US 202017779270 A 20201120