

Title (en)
A SECURITY DOCUMENT

Title (de)
SICHERHEITSDOKUMENT

Title (fr)
DOCUMENT DE SÉCURITÉ

Publication
EP 3342601 B1 20190327 (EN)

Application
EP 17210769 A 20171228

Priority
EP 17461501 A 20170102

Abstract (en)
[origin: EP3342601A1] A security document comprising a substrate layer (12) with a printed security feature (11) comprising a first area (11a) and a second area (11b), wherein in both areas (11a, 11b) the security feature (11) is visible under visible light in a basic colour (P), characterized in that when excited with infrared light, the first area (11a) is visible in visible light in a first colour (1) and the second area (11b) is visible in visible light in a second colour (2) different than the first colour (1), wherein the security feature (11) is a print layer made of a composition comprising, in the first area (11a), a first additional up-conversion luminescence pigment excitable by the infrared light, and in the second area (11b) a second additional up-conversion luminescence pigment excitable by the infrared light, wherein the second additional pigment is different than the first additional pigment.

IPC 8 full level
B42D 25/29 (2014.01); **B41M 3/14** (2006.01); **B42D 25/382** (2014.01); **G07D 7/1205** (2016.01)

CPC (source: EP)
B42D 25/29 (2014.10); **B42D 25/382** (2013.01); **G07D 7/1205** (2017.05); **B41M 3/144** (2013.01)

Citation (opposition)
Opponent : Bundesdruckerei GmbH
• WO 9513597 A2 19950518 - DE LA RUE THOMAS & CO LTD [GB], et al
• US 2011298204 A1 20111208 - ESCHBACH REINER [US]
• WO 2004050376 A1 20040617 - RUE DE INT LTD [GB], et al
• DE 60302086 T2 20060720 - DAINIPPON PRINTING CO LTD [JP]
• GB 2258659 A 19930217 - DE LA RUE THOMAS & CO LTD [GB]
• US 2016176224 A1 20160623 - SCHAEDE JOHANNES GEORG [DE], et al
• US 2007044679 A1 20070301 - PETRIK VIKTOR I [RU]
• DE 19860093 A1 20000706 - GIESECKE & DEVRIENT GMBH [DE]
• WO 9710958 A1 19970327 - DE LA RUE THOMAS & CO LTD [GB], et al
• US 2013221656 A1 20130829 - SEKINE YOKO [JP], et al
• WO 03072682 A1 20030904 - HONEYWELL SPECIALITY CHEMICALS [DE], et al
• DE 10113266 A1 20020919 - BUNDESDRUCKEREI GMBH [DE]
• DE 60210378 T2 20061019 - BANQUE DE FRANCE [FR]
• EP 0595583 A1 19940504 - CANON KK [JP]
• RUDOLF L. VAN RENESSE, OPTICAL DOCUMENT SECURITY, pages 97 - 102, 126-127, XP055667691, ISBN: 1-58053-258-6

Cited by
DE102019210762A1

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

DOCDB simple family (publication)
EP 3342601 A1 20180704; EP 3342601 B1 20190327; CY 1121774 T1 20200731; DK 3342601 T3 20190611; ES 2731365 T3 20191115; HR P20190984 T1 20190823; HU E044906 T2 20191128; LT 3342601 T 20190710; PL 3342601 T3 20190930; PT 3342601 T 20190611; RS 58978 B1 20190830; SI 3342601 T1 20190830; TR 201907834 T4 20190621

DOCDB simple family (application)
EP 17210769 A 20171228; CY 191100570 T 20190529; DK 17210769 T 20171228; ES 17210769 T 20171228; HR P20190984 T 20190530; HU E17210769 A 20171228; LT 17210769 T 20171228; PL 17210769 T 20171228; PT 17210769 T 20171228; RS P20190658 A 20171228; SI 201730056 T 20171228; TR 201907834 T 20171228