

Title (en)
Security feature for valuable documents

Title (de)
Sicherheitsmerkmal für Wertdokumente

Title (fr)
Caractéristique de sécurité pour documents de valeur

Publication
EP 1826730 A2 20070829 (DE)

Application
EP 07003502 A 20070220

Priority
DE 102006008245 A 20060222

Abstract (en)
The security features for security papers and value documents with ultraviolet-stimulating organic luminescent materials, comprises a core-covering-particle (20), with which luminescence material as core (22) is coated with an organic covering (24). The covering contains a UV absorber (26), which does not substantially impair the UV-stimulating ability of the luminescence material, and IR (infrared)-absorber with an absorption in the spectral region of 800-1100 Nm. The absorption maximum of the luminescence material lies in larger wavelengths than the absorption maximum of the UV absorber. The security features for security papers and value documents with ultraviolet-stimulating organic luminescent materials, comprises a core-covering-particle (20), with which luminescence material as core (22) is coated with an organic covering (24). The covering contains a UV absorber (26), which does not substantially impair the UV-stimulating ability of the luminescence material, and IR (infrared)-absorber with an absorption in the spectral region of 800-1100 Nm. The absorption maximum of the luminescence material lies in larger wavelengths than the absorption maximum of the UV absorber. The luminescence material is luminized in the red or blue spectral region after UV-stimulation. The coating contains a characteristic material having concentration of 1 ppm-50wt.%. The characteristic material is a luminescent material, which shows another stimulation- and/or emission spectrum than the organic luminescent material in the core, and contains specific molded articles. The characteristic material is soluble, an infrared absorber, magnetic, light polarizing and electrically conductive. Independent claims are included for: (1) procedure for manufacturing a security feature for security papers and value documents or such a thing; (2) security papers for the production of safety- or value documents, like notes, cheque, badges or such a thing; and (3) branded article, value document or such a thing.

Abstract (de)
Die Erfindung betrifft ein Sicherheitsmerkmal für Sicherheitspapiere, Wertdokumente und dergleichen mit einem UV-anregbaren organischen Lumineszenzstoff. Erfindungsgemäß enthält das Sicherheitsmerkmal Kern-Hülle-Teilchen (20), bei denen der organische Lumineszenzstoff als Kern (22) mit einer Hülle (24) beschichtet ist, die die chemische und/oder physikalische Beständigkeit des Lumineszenzstoffs erhöht.

IPC 8 full level
G07D 7/12 (2006.01)

CPC (source: EP US)
B42D 25/20 (2014.10 - US); **B42D 25/29** (2014.10 - EP); **B42D 25/387** (2014.10 - US); **D21H 21/40** (2013.01 - EP); **G07D 7/12** (2013.01 - EP); **B42D 2033/20** (2022.01 - EP); **B42D 2035/24** (2022.01 - EP); **D21H 21/48** (2013.01 - EP)

Citation (applicant)
WO 2005108110 A1 20051117 - GIESECKE & DEVRIENT GMBH [DE], et al

Cited by
EP2169650A1; CN108349281A; CN104411505A; AU2013286338B2; RU2615262C2; US9327542B2; US9540772B2; US10953684B2; US9542788B2; WO2014005686A3; WO2015043761A3; WO2015043760A3; WO2017080654A1; DE102012003601A1; WO2013124059A1

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