

Title (en)

Security document with light-active dyes for authenticity verification

Title (de)

Wert- und Sicherheitsdokument mit optisch anregbaren Farbstoffen zur Echtheitsprüfung

Title (fr)

Document de sécurité avec des colorants optiquement excitables pour validation

Publication

EP 0980763 B1 20031015 (DE)

Application

EP 99115363 A 19990804

Priority

DE 19836813 A 19980814

Abstract (en)

[origin: EP0980763A1] The document contains an optically excitable color (3) used to detect a defined emission spectrum for the document and provides a characteristic spectrum for the document. The spectrum is characteristic for the color embedded in the document and for the material of the document. The color is directly applied on or in the document or is embedded in it. The document has a color (3) embedded in a carrier material (4) to form a laser active element. Colors used for different valuable and security documents have different emission properties providing reliable differentiation of different documents. Alternatively the color is embedded in a resonator or pigment platelet consisting of a carrier layer coated on both sides by reflective coating.

IPC 1-7

B41M 3/14

IPC 8 full level

B41M 3/14 (2006.01); **B42D 15/00** (2006.01)

CPC (source: EP US)

B42D 25/23 (2014.10 - US); **B42D 25/29** (2014.10 - EP US); **B41M 3/14** (2013.01 - EP US); **B41M 5/287** (2013.01 - EP US); **B42D 2035/34** (2022.01 - EP)

Cited by

EP2168780A3; EP1550562A3; CN102483866A; US9903821B2; WO03045708A3

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0980763 A1 20000223; **EP 0980763 B1 20031015**; AT E251994 T1 20031115; DE 19836813 A1 20000224; DE 59907352 D1 20031120; US 6234537 B1 20010522

DOCDB simple family (application)

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