

Title (en)

Device and method for checking valuable documents

Title (de)

Verfahren und Vorrichtung zur Prüfung von Wertdokumenten

Title (fr)

Procédé et dispositif destinés à la vérification de documents de valeur

Publication

EP 2056260 A3 20100217 (DE)

Application

EP 08014847 A 20080821

Priority

DE 102007044878 A 20070920

Abstract (en)

[origin: US2009078886A1] The invention relates to a method and an apparatus for recognizing forged documents of value, wherein the documents of value are illuminated with clocked excitation light of a light source. Within the bright phase of the excitation light a first luminescence intensity is detected, within the dark phase a second luminescence intensity. Because of the afterglow of the light pulses there is a residual fluorescence, which distorts the luminescence intensity in the dark phase. By linking the second luminescence intensity with the first luminescence intensity, e.g. by subtracting a scaled first luminescence intensity, a corrected second luminescence intensity is determined, which substantially corresponds to the phosphorescence signal of the document of value.

IPC 8 full level

G07D 7/12 (2006.01)

CPC (source: EP US)

G07D 7/1205 (2017.04 - EP US)

Citation (search report)

- [X] GB 2366371 A 20020306 - MARS INC [US]
- [A] WO 9909382 A1 19990225 - RUE DE INT LTD [GB], et al
- [A] US 6035914 A 20000314 - RAMSEY J MICHAEL [US], et al

Cited by

EP3147873B1

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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