Title (en)

VALUABLE DOCUMENT AND SECURITY MARK USING A MARKING SUBSTANCE

Title (de)

WERTDOKUMENT UND SICHERHEITSMARKIERUNG MIT MARKIERUNGSSTOFF

Title (fr)

DOCUMENT DE VALEUR ET MARQUAGE DE SECURITE AU MOYEN D'UNE SUBSTANCE DE MARQUAGE

Publication

EP 1436774 A1 20040714 (DE)

Application

EP 02781215 A 20021004

Priority

- DE 10149265 A 20011005
- EP 0211142 W 20021004

Abstract (en)

[origin: WO03032243A1] The invention relates to a valuable document, a security element and a security mark, which contain a marking substance that is absorbent in the infra-red spectral range between 1000 and 2500 nm, but is not significantly absorbent in either the visible spectral range, or at 800 nm. Said marking substance cannot therefore be recognised by the widespread simple IR reading devices, which operate at approximately 800 nm. Preferably, an additional overprint is added, which is absorbent in the visible spectral range and also at approximately 800 nm, but not in the 1000 to 2500 nm range. According to the inventive method, for verification the marked location is irradiated with infra-red light in the 1000 to 2500 nm range and the absorption is determined.

IPC 1-7

G06K 19/06; B41M 3/14; B41M 5/40

IPC 8 full level

B41M 3/14 (2006.01); **B42D 15/00** (2006.01); **B42D 15/10** (2006.01); **B42D 25/29** (2014.01); **B44F 1/12** (2006.01); **D21H 21/48** (2006.01); **G06K 7/00** (2006.01); **G06K 7/12** (2006.01); **G06K 19/06** (2006.01); **G06K 19/077** (2006.01); **G06K 19/10** (2006.01); B41M 5/40 (2006.01)

CPC (source: EP US)

B41M 3/14 (2013.01 - EP US); **B42D 25/29** (2014.10 - EP US); **D21H 21/48** (2013.01 - EP US); **G06K 19/06028** (2013.01 - EP US); B41M 5/40 (2013.01 - EP US); G06K 2019/06225 (2013.01 - EP US)

Citation (search report)

See references of WO 03032243A1

Cited by

DE102007058888A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

WO 03032243 A1 20030417; BR 0213133 A 20041019; CA 2462803 A1 20030417; CN 100476870 C 20090408; CN 1564998 A 20050112; DE 10149265 A1 20030417; EP 1436774 A1 20040714; JP 2005505444 A 20050224; JP 2009274448 A 20091126; MX PA04002958 A 20040715; PL 368057 A1 20050321; RU 2004114246 A 20050827; RU 2305866 C2 20070910; US 2005052519 A1 20050310; ZA 200402086 B 20050527

DOCDB simple family (application)

EP 0211142 W 20021004; BR 0213133 A 20021004; CA 2462803 A 20021004; CN 02819632 A 20021004; DE 10149265 A 20011005; EP 02781215 A 20021004; JP 2003535138 A 20021004; JP 2009154879 A 20090630; MX PA04002958 A 20021004; PL 36805702 A 20021004; RU 2004114246 A 20021004; US 49153004 A 20041013; ZA 200402086 A 20040316