

Title (en)

AUTOMATIC AUTHENTICATION OF DOCUMENTS PROTECTED WITH SECURITY FEATURES

Title (de)

AUTOMATISCHE AUTHENTIFIKATION VON MIT SICHERHEITSMERKMALEN GESCHÜTZTEN DOKUMENTEN

Title (fr)

AUTHENTIFICATION AUTOMATIQUE DE DOCUMENTS PROTEGES PAR DES CARACTERISTIQUES DE SECURITE

Publication

EP 1195045 B1 20071114 (DE)

Application

EP 01905705 A 20010130

Priority

- DE 10005835 A 20000210
- EP 0100957 W 20010130

Abstract (en)

[origin: WO0160047A2] Method for quick, automatic authentication of documents which are protected with optical features, wherein the positions of the features in relation to the coordinate system of the document and/or automatic testing machine are unknown or only known in an approximate manner. According to the invention, the document is either entirely or partially illuminated with an illuminating means in a first working phase, whereby the spectral and geometric distribution, degree of polarization and/or alignment, coherence and temporal activity are selected in such a way that one or more images arise for the illuminated end surfaces which can be detected by one or more imaging sensors, wherein the position of the security features form a difference in relation to the rest of the background of the document, so that said positions are automatically determined by means of the image recognition method in relation to the coordinate system of the document. In a second working phase, the corresponding features are only verified in the image areas corresponding to the positions found in the first working phase and the corresponding picture areas are illuminated. The corresponding features of the image generate spectral signatures and/or other optical patterns, wherefrom the information required for verification of the features can be derived using image processing methods and spectrometry.

IPC 8 full level

H04N 1/00 (2006.01); **G07D 7/1205** (2016.01); **G07D 7/20** (2016.01); **H04N 1/32** (2006.01)

CPC (source: EP US)

G07D 7/1205 (2017.05 - EP); **G07D 7/121** (2013.01 - EP US); **G07D 7/20** (2013.01 - EP US)

Citation (examination)

EP 0675631 A2 19951004 - SHARP KK [JP]

Cited by

CN110830670A

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 0160047 A2 20010816; **WO 0160047 A3 20020117**; AT E378778 T1 20071115; AU 3371901 A 20010820; CY 1107191 T1 20120125; DE 10005835 A1 20010816; DE 50113260 D1 20071227; DK 1195045 T3 20080421; EP 1195045 A2 20020410; EP 1195045 B1 20071114; ES 2296727 T3 20080501; PT 1195045 E 20080207

DOCDB simple family (application)

EP 0100957 W 20010130; AT 01905705 T 20010130; AU 3371901 A 20010130; CY 081100167 T 20080213; DE 10005835 A 20000210; DE 50113260 T 20010130; DK 01905705 T 20010130; EP 01905705 A 20010130; ES 01905705 T 20010130; PT 01905705 T 20010130