

Title (en)
Laser markable security element

Title (de)
Lasermarkierbares Sicherheitselement

Title (fr)
Élément de sécurité pouvant être marqué au laser

Publication
EP 1826728 A2 20070829 (DE)

Application
EP 07003504 A 20070220

Priority
DE 102006008247 A 20060222

Abstract (en)
The features has a laser-marked marking substance with core-covering-particles (20,30). One of the material of the core (22,32) and covering (24) absorbs the radiation of the marking laser and the other materials of core and covering does not absorb the radiation of the marking laser. Independent claims are also included for the following: (1) a method for manufacturing of a laser-marked safety features (2) a safety paper for the manufacturing of protective cover or value document (3) a data carrier e.g. branded articles, value documents.

Abstract (de)
Die Erfindung betrifft ein lasermarkierbares Sicherheitselement zur Absicherung von Wertgegenständen. Erfindungsgemäß enthält das Sicherheitselement einen lasermarkierbaren Merkmalsstoff mit Kern-Hülle-Teilchen (20; 30), wobei eines der Materialien (24, 32) von Kern und Hülle die Strahlung eines Markierungslaser absorbiert und das andere der Materialien (22, 34) von Kern und Hülle die Strahlung des Markierungslasers nicht absorbiert.

IPC 8 full level
G07D 7/00 (2006.01)

CPC (source: EP US)
B41M 3/14 (2013.01 - EP); **B41M 5/24** (2013.01 - EP); **B41M 5/26** (2013.01 - EP); **B41M 5/287** (2013.01 - EP); **B42D 25/00** (2014.10 - EP); **B42D 25/20** (2014.10 - US); **B42D 25/29** (2014.10 - EP); **B42D 25/405** (2014.10 - EP); **B42D 25/435** (2014.10 - US); **B41M 3/142** (2013.01 - EP)

Citation (examination)
• WO 2004050767 A1 20040617 - DSM IP ASSETS BV [NL], et al
• WO 2005035272 A2 20050421 - GIESECKE & DEVRIENT GMBH [DE], et al

Cited by
EP2169650A1; DE102013218752A1; EP2168780A3; DE102013218752B4; WO2010103499A1; DE102012003601A1; WO2013124059A1; EP2168780A2; DE102008049511A1; DE102008049512A1; WO2014002014A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

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