

Title (en)
SECURITY ELEMENT STRUCTURE FOR DOCUMENTS, DEVICES FOR CHECKING DOCUMENTS WITH SUCH SECURITY ELEMENTS,
METHOD FOR THE USE THEREOF

Title (de)
AUFBAU VON SICHERHEITSELEMENTEN FÜR DOKUMENTE UND VORRICHTUNGEN ZUR PRÜFUNG VON DOKUMENTEN MIT
DERARTIGEN SICHERHEITSELEMENTEN SOWIE VERFAHREN ZUR ANWENDUNG

Title (fr)
STRUCTURE D'ELEMENTS DE SECURITE POUR DOCUMENTS ET DISPOSITIFS POUR LE CONTROLE DE DOCUMENTS DOTES DE TELS
ELEMENTS DE SECURITE, AINSI QUE PROCEDE D'APPLICATION Y RELATIF

Publication
EP 0978107 B1 20011212 (DE)

Application
EP 98932023 A 19980424

Priority
• DE 9801179 W 19980424
• DE 19718916 A 19970425
• DE 19812812 A 19980316

Abstract (en)
[origin: WO9849657A2] The invention relates to the structuring of security elements for documents, devices for checking documents with such security elements and a method for the use thereof according to patent application DE 197 18 916.4. The aim of the invention is to add further security elements to a security element structure for documents and to provide devices for checking said security elements, in addition to proposing a new method for using security elements and devices, which would make it substantially more difficult or even impossible for counterfeiters to produce counterfeit products, which are so close to the original that they cannot be detected by checking devices, by imitating the manner in which the checking procedures and devices work. The security element structure for documents to be checked is designed in such a way that it focuses on the checking procedure rather than on visual observation. Said design, described here as a functional design, is a combination of electrically conducting and insulating structures of the same or varying size, on similar or varying planes, with the same or varying degree of conductivity. Said inventive structure design is produced from metallized structures and/or conductive inks or printing color inks.

IPC 1-7
G07D 1/00

IPC 8 full level
B44F 1/12 (2006.01); **G07D 7/00** (2006.01); **G07D 1/00** (2006.01); **G07D 7/02** (2006.01); **G07D 7/12** (2006.01)

CPC (source: EP KR US)
G07D 7/0032 (2017.05 - EP KR US); **G07D 7/026** (2013.01 - EP KR US)

Cited by
CN103679242A

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI NL PT SE

DOCDB simple family (publication)
WO 9849657 A2 19981105; WO 9849657 A3 19990204; AT E210870 T1 20011215; AU 8208298 A 19981124; BG 103838 A 20000630; BR 9809777 A 20000905; CA 2298494 A1 19981105; CN 1253649 A 20000517; CZ 295133 B6 20050518; CZ 380199 A3 20000216; DE 19812812 A1 19990923; DE 59802444 D1 20020124; EP 0978107 A2 20000209; EP 0978107 B1 20011212; ES 2169918 T3 20020716; HU P0003820 A2 20010228; HU P0003820 A3 20021128; JP 2001523362 A 20011120; KR 20010020270 A 20010315; LV 12424 A 20000120; LV 12424 B 20000520; NO 994725 D0 19990929; NO 994725 L 19991223; PL 336525 A1 20000703; PT 978107 E 20020531; RO 118987 B1 20040130; TR 199902663 T2 20000221; US 2004012773 A1 20040122; US 7116406 B1 20061003; US 7133124 B2 20061107

DOCDB simple family (application)
DE 9801179 W 19980424; AT 98932023 T 19980424; AU 8208298 A 19980424; BG 10383899 A 19991028; BR 9809777 A 19980424; CA 2298494 A 19980424; CN 98804494 A 19980424; CZ 380199 A 19980424; DE 19812812 A 19980316; DE 59802444 T 19980424; EP 98932023 A 19980424; ES 98932023 T 19980424; HU P0003820 A 19980424; JP 54649998 A 19980424; KR 19997009870 A 19991025; LV 990168 A 19991123; NO 994725 A 19990929; PL 33652598 A 19980424; PT 98932023 T 19980424; RO 9901128 A 19980424; TR 9902663 T 19980424; US 42327500 A 20000127; US 61903803 A 20030713