

Title (en)

SECURITY ELEMENT FOR A VALUE-DOCUMENT, MANUFACTURING PROCESS AND CORRESPONDING DOCUMENT

Title (de)

SICHERHEITSELEMENT FÜR EIN WERTSDOKUMENT, HERSTELLUNGSPROZESS UND ENTSPRECHENDES DOKUMENT

Title (fr)

ELEMENT DE SECURITE POUR UN DOCUMENT-VALEUR, UN PROCEDE DE FABRICATION, ET DOCUMENT CORRESPONDANT

Publication

EP 2691573 B1 20160504 (FR)

Application

EP 12713078 A 20120328

Priority

- FR 1152648 A 20110330
- EP 2012055565 W 20120328

Abstract (en)

[origin: WO2012130907A1] The present invention relates, in particular, to a security element (12) for a value document (1), which consists of an initially planar substrate (G), including an array (14) of raised lines (16), each raised line (16) comprising a profile (F), said profile (F) comprising gradual variations in the shape thereof along a predetermined line (16) or from one line to the other, said array (16) being colored, characterized in that said colored network (16) consists of repeating contiguous strips (3) formed by adjacent or contiguous threads (120, 121, 122) of at least two different colors (B, R, Y), said strips (3) being overall oriented in the same direction as that of said lines (16) of said array (14).

IPC 8 full level

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Citation (opposition)

Opponent : Giesecke & Devrient GmbH

- WO 2010100360 A1 20100910 - OBERTHUR TECHNOLOGIES [FR], et al
- WO 2008049566 A2 20080502 - GIESECKE & DEVRIENT GMBH [DE], et al
- WO 9717211 A1 19970515 - GIESECKE & DEVRIENT GMBH [DE], et al
- EP 0157921 B1 19900207
- US 5105306 A 19920414 - OHALA JOHN J [US]
- WO 03107042 A2 20031224 - KIMBERLY CLARK CO [US]
- WO 0020225 A1 20000413 - GIESECKE & DEVRIENT GMBH [DE], et al
- WO 9748555 A1 19971224 - GIESECKE & DEVRIENT GMBH [DE], et al
- RICHARD ERNST: "Wörterbuch der industriellen Technik", vol. IV, 1988, ISBN: 3870971371, pages: 587, XP055351829

Cited by

FR3130194A1; WO2023110227A1

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DOCDB simple family (publication)

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