

Title (en)

Method for creating an opening in a multiple layer safety paper

Title (de)

Verfahren zur Erzeugung einer Durchgangsöffnung in einem mehrlagigen Sicherheitspapier

Title (fr)

Procédé de production d'une ouverture de passage dans un papier de sécurité multicouche

Publication

EP 2031127 B1 20151021 (DE)

Application

EP 08019594 A 20060314

Priority

- EP 06723411 A 20060314
- DE 102005013474 A 20050323
- DE 102005045566 A 20050923

Abstract (en)

[origin: WO2006099971A2] The invention relates to multi-ply security paper for the production of security or value documents, such as banknotes, identity cards and similar. An endless security element (54) is introduced into a first paper ply (52), which is freely accessible on at least one side of the paper ply (52). The first paper ply (52) is covered on the side thereof from which the security element (54) is freely accessible, by a second paper ply (56) and the second paper ply (56) comprises one or more openings (58) in the region of the security element (54).

IPC 8 full level

D21F 11/06 (2006.01); **D21F 1/44** (2006.01); **D21F 11/08** (2006.01)

CPC (source: EP US)

D21F 1/44 (2013.01 - EP US); **D21F 11/08** (2013.01 - EP US); **D21H 21/42** (2013.01 - EP US)

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

DOCDB simple family (publication)

DE 102005045566 A1 20060928; CN 101146954 A 20080319; CN 101146954 B 20111116; CN 102154945 A 20110817; CN 102154945 B 20121128; CN 102174782 A 20110907; CN 102174782 B 20141210; EP 1899527 A2 20080319; EP 1899527 B1 20160622; EP 2031126 A1 20090304; EP 2031126 B1 20181226; EP 2031127 A1 20090304; EP 2031127 B1 20151021; ES 2556258 T3 20160114; ES 2717631 T3 20190624; PL 2031126 T3 20190930; RU 2007138905 A 20090427; RU 2401208 C2 20101010; RU 2433217 C1 20111110; US 2009001709 A1 20090101; WO 2006099971 A2 20060928; WO 2006099971 A3 20070419

DOCDB simple family (application)

DE 102005045566 A 20050923; CN 200680009117 A 20060314; CN 201110035190 A 20060314; CN 201110035784 A 20060314; EP 06723411 A 20060314; EP 08019593 A 20060314; EP 08019594 A 20060314; EP 2006002333 W 20060314; ES 08019593 T 20060314; ES 08019594 T 20060314; PL 08019593 T 20060314; RU 2007138905 A 20060314; RU 2010110324 A 20100319; US 90911506 A 20060314