Title (en)

MULTI-LAYER SECURITY PAPER

Title (de)

MEHRLAGIGES SICHERHEITSPAPIER

Title (fr)

PAPIER DE SÉCURITÉ MULTIJET

Publication

EP 1687484 B2 20140806 (FR)

Application

EP 04791542 A 20041015

Priority

- FR 2004002631 W 20041015
- FR 0312020 A 20031015

Abstract (en)

[origin: FR2861101A1] Multi-web security paper is made from at least two fibre webs - a first, outer web containing an authentification element such as a watermark, irridescent particles, fluorescent, phosphorescent or coloured fibres or particles and a second web containing a reinforcing and/or authentification element. Multi-web security paper is made from at least two fibre webs - a first, outer web containing an authentification element such as a watermark, irridescent particles, fluorescent, phosphorescent or coloured fibres or particles and a second web containing a reinforcing and/or authentification element. The second web's reinforcing element is not present in the first web, and the authentification element of the first web is not present in the second one, which is thicker than the other webs and preferably twice as thick. The authentification element in the first, and optionally the second, web is detectable by optical means or responds to certain stimuli, such as an electromagnetic and preferably microwave field, by giving out a detectable signal. The reinforcement can be provided by natural or synthetic fibres.

IPC 8 full level

D21H 21/40 (2006.01); **D21H 27/30** (2006.01); D21H 11/20 (2006.01); D21H 13/10 (2006.01); D21H 21/18 (2006.01)

CPC (source: EP US)

B42D 25/30 (2014.10 - US); **B42D 25/40** (2014.10 - US); **D21H 21/40** (2013.01 - EP US); D21H 11/20 (2013.01 - EP US); D21H 13/10 (2013.01 - EP US); D21H 21/18 (2013.01 - EP US); D21H 27/30 (2013.01 - EP US); Y10T 428/24942 (2015.01 - EP US)

Citation (opposition)

Opponent :

- GB 469023 A 19370716 - DAVID RUSSELL
- EP 0666182 A1 19950809 - NACIONAL MONEDA TIMBRE [ES]
- EP 1036665 A1 20000920 - DYNIC CORP [JP]

Cited by

US9464385B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2007128418 A1 20070607; **US 9464385 B2 20161011**; AT E493546 T1 20110115; BR PI0415493 A 20061226; BR PI0415493 B1 20151222; CA 2542196 A1 20050428; CA 2542196 C 20120221; DE 602004030822 D1 20110210; EP 1687484 A1 20060809; EP 1687484 B1 20101229; EP 1687484 B2 20140806; ES 2358596 T3 20110512; ES 2358596 T5 20141028; FR 2861101 A1 20050422; FR 2861101 B1 20070615; WO 2005038135 A1 20050428

DOCDB simple family (application)

US 57536704 A 20041015; AT 04791542 T 20041015; BR PI0415493 A 20041015; CA 2542196 A 20041015; DE 602004030822 T 20041015; EP 04791542 A 20041015; ES 04791542 T 20041015; FR 0312020 A 20031015; FR 2004002631 W 20041015