

Title (en)  
Security paper

Title (de)  
Sicherheitspapier

Title (fr)  
Papier de securité

Publication  
**EP 0625431 B1 19981111 (DE)**

Application  
**EP 94106421 A 19940425**

Priority  
DE 4314380 A 19930501

Abstract (en)  
[origin: US5783275A] An antifalsification paper is described having an embedded safeguarding thread which is embedded in the paper so as to be freely accessible in some areas. The safeguarding thread has a width greater than 2 mm. The antifalsification paper comprises at least two paper layers produced on separate paper machines. The safeguarding thread is embedded in the first paper layer which has openings or recesses in its surface through which the thread is partly accessible on both sides. This first paper layer is covered with at least one second paper layer and firmly connected therewith, the second paper layer having a thickness of 10 to 50%, preferably 20%, of the total thickness of the antifalsification paper. The use of particularly wide safeguarding threads and the resulting possibility of equipping the threads with certain optical effects can improve the resistance to forgery of the antifalsification paper provided therewith.

IPC 1-7  
**B42D 15/00**

IPC 8 full level  
**B42D 15/00** (2006.01); **B42D 25/355** (2014.01); **D21F 1/44** (2006.01); **D21F 11/00** (2006.01); **D21F 11/06** (2006.01); **D21H 21/42** (2006.01); **D21H 27/34** (2006.01)

IPC 8 main group level  
**B41M 3/00** (2006.01); **D21F 9/00** (2006.01); **D21H 27/00** (2006.01)

CPC (source: EP FI US)  
**B42D 25/355** (2014.10 - EP US); **D21F 1/44** (2013.01 - EP US); **D21F 11/06** (2013.01 - EP US); **D21H 21/42** (2013.01 - EP FI US); **D21H 27/34** (2013.01 - EP US); **Y10S 428/916** (2013.01 - EP US); **Y10T 428/24273** (2015.01 - EP US); **Y10T 428/24298** (2015.01 - EP US); **Y10T 428/24331** (2015.01 - EP US); **Y10T 428/24802** (2015.01 - EP US)

Citation (examination)  
EP 0229645 A1 19870722 - GAO GES AUTOMATION ORG [DE]

Cited by  
WO2005098748A1; FR2901813A1; CN102089476A; US6036230A; EP2280119A1; FR2889853A1; GB2531581A; GB2531581B; FR2891848A1; FR2891761A1; CH696744A5; WO2020224800A1; US8083894B2; US8132830B2; US8372241B2; DE102016001107A1; WO2005026440A1; WO2005095118A3; WO2017133832A1; WO2008006983A1; WO9510419A1; WO0039391A1; WO2009151607A1; WO2007020359A3; US8465625B2; DE102016001106A1; US6616803B1; DE102015000694A1; EP4372146A1; DE102022130277A1; DE102010034693A1; WO2012022402A1; DE102015000690A1; US9708773B2; US10344431B2; EP3862191A1; WO03054297A3; WO2017133831A1; WO2007042637A1; WO2007042718A1; WO2005003458A1; JP2007530313A; EP3580066B1

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

DOCDB simple family (publication)  
**US 5783275 A 19980721**; AT E173201 T1 19981115; AT E221465 T1 20020815; BR 9401667 A 19941206; CA 2122528 A1 19941102; CA 2122528 C 20070220; CA 2569243 A1 19941102; CA 2569243 C 20070619; CN 1062927 C 20010307; CN 1102865 A 19950524; DE 4314380 A1 19941103; DE 4314380 B4 20090806; DE 59407255 D1 19981217; DE 59410164 D1 20020905; DK 0625431 T3 19990726; EP 0625431 A1 19941123; EP 0625431 B1 19981111; EP 0860298 A2 19980826; EP 0860298 A3 19980902; EP 0860298 B1 20020731; ES 2123072 T3 19990101; ES 2178067 T3 20021216; FI 121019 B 20100615; FI 942003 A0 19940429; FI 942003 A 19941102; KR 100309649 B1 20011228; NO 20040538 L 19941102; NO 20045040 L 19941102; NO 941538 D0 19940427; NO 941538 L 19941102; PL 173624 B1 19980430; RU 2125938 C1 19990210; RU 94015183 A 19960827; SI 21608 A 20050430; SI 21608 B 20051231; SI 9400202 A 19941231; SI 9400202 B 20051231; TW 261643 B 19951101

DOCDB simple family (application)  
**US 50187595 A 19950713**; AT 94106421 T 19940425; AT 98107119 T 19940425; BR 9401667 A 19940502; CA 2122528 A 19940429; CA 2569243 A 19940429; CN 94105571 A 19940501; DE 4314380 A 19930501; DE 59407255 T 19940425; DE 59410164 T 19940425; DK 94106421 T 19940425; EP 94106421 A 19940425; EP 98107119 A 19940425; ES 94106421 T 19940425; ES 98107119 T 19940425; FI 942003 A 19940429; KR 19940009404 A 19940430; NO 20040538 A 20040205; NO 20045040 A 20041119; NO 941538 A 19940427; PL 30326394 A 19940429; RU 94015183 A 19940428; SI 9400202 A 19940428; SI 9400462 A 19940428; TW 83104779 A 19940526