

Title (en)  
SECURITY AND/OR VALUABLE DOCUMENT

Title (de)  
SICHERHEITS- UND/ODER WERTDOKUMENT

Title (fr)  
DOCUMENT DE SECURITE ET/OU DE VALEUR

Publication  
**EP 1727684 A2 20061206 (DE)**

Application  
**EP 05740715 A 20050321**

Priority  
• DE 2005000528 W 20050321  
• DE 102004014778 A 20040326

Abstract (en)  
[origin: EP2077190A1] The document has a support (1) made of paper material and including window shaped through holes that are closed by a thread-like film unit (2). A transparent sealing layer covers surfaces of the unit in an area of the holes. The layer is applied to the side of the support lying opposite to the unit. The layer has a linear expansion coefficient that does not deviate more than 10 percent from a linear expansion coefficient of the unit.

IPC 8 full level  
**B42D 15/00** (2006.01); **D21H 21/42** (2006.01)

CPC (source: EP KR US)  
**B42D 15/00** (2013.01 - KR); **B42D 25/29** (2014.10 - EP KR US); **D21H 21/42** (2013.01 - EP US); **B42D 2035/36** (2022.01 - EP)

Cited by  
DE102019006890A1; WO2021063542A1

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**US 2008036197 A1 20080214; US 8132830 B2 20120313**; AT E432830 T1 20090615; AU 2005229477 A1 20051013;  
AU 2005229477 B2 20091008; BR PI0509260 A 20070911; BR PI0509260 B1 20161122; CA 2560518 A1 20051013; CA 2560518 C 20120626;  
CN 100496995 C 20090610; CN 1938165 A 20070328; DE 102004014778 A1 20051013; DE 502005007407 D1 20090716;  
DK 1727684 T3 20091005; DK 1727684 T4 20160118; DK 2077190 T3 20120730; EP 1727684 A2 20061206; EP 1727684 B1 20090603;  
EP 1727684 B2 20150930; EP 2077190 A1 20090708; EP 2077190 B1 20120523; ES 2328263 T3 20091111; ES 2328263 T5 20160125;  
ES 2388657 T3 20121017; JP 2007530313 A 20071101; JP 4611377 B2 20110112; KR 100869206 B1 20081118; KR 20070007849 A 20070116;  
PL 1727684 T3 20091130; PL 1727684 T5 20160229; PL 2077190 T3 20121031; RU 2006137693 A 20080510; RU 2359837 C2 20090627;  
TW 200535739 A 20051101; TW I347271 B 20110821; WO 2005095118 A2 20051013; WO 2005095118 A3 20051215

DOCDB simple family (application)  
**US 59906605 A 20050321**; AT 05740715 T 20050321; AU 2005229477 A 20050321; BR PI0509260 A 20050321; CA 2560518 A 20050321;  
CN 200580009821 A 20050321; DE 102004014778 A 20040326; DE 2005000528 W 20050321; DE 502005007407 T 20050321;  
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ES 09004025 T 20050321; JP 2007504249 A 20050321; KR 20067022338 A 20061026; PL 05740715 T 20050321; PL 09004025 T 20050321;  
RU 2006137693 A 20050321; TW 94108703 A 20050322