

Title (en)  
IMPROVEMENTS IN SECURITY DOCUMENTS AND SUBSTRATES THEREFOR

Title (de)  
SICHERHEITSDOKUMENTE UND SUBSTRATE DAFÜR

Title (fr)  
AMELIORATIONS APORTEES A DES DOCUMENTS DE SECURITE ET SUBSTRATS PREVUS A CET EFFET

Publication  
**EP 1094943 A1 20010502 (EN)**

Application  
**EP 99928086 A 19990624**

Priority  
• GB 9901987 W 19990624  
• GB 9813783 A 19980625

Abstract (en)  
[origin: GB2338680A] A substrate for security documents such as banknotes, cheques and passports which are required to provide a high degree of security against imitation comprises at least a plurality of layers (14,15) of polymeric film laminated together with at least one metallic layer (17) therebetween, wherein at least one of the polymeric layers (14) is biaxially oriented and at least another (15) comprises an opaque voided film wherein the opacity of at least a portion of the voided polymeric layer is reduced. The metallic layer (18) may be partially demetallised.

IPC 1-7  
**B32B 27/06**; **B32B 5/18**; **B42D 15/00**; **B42D 15/10**

IPC 8 full level  
**B32B 3/26** (2006.01); **B42D 15/00** (2006.01); **B42D 15/10** (2006.01)

CPC (source: EP KR US)  
**B32B 3/26** (2013.01 - EP); **B32B 15/08** (2013.01 - US); **B32B 27/06** (2013.01 - KR); **B32B 27/08** (2013.01 - US); **B32B 38/10** (2013.01 - US); **B42D 25/29** (2014.10 - EP); **B42D 25/342** (2014.10 - EP); **B42D 25/351** (2014.10 - EP); **B42D 25/369** (2014.10 - EP); **B42D 25/373** (2014.10 - EP US); **B42D 25/378** (2014.10 - US); **B42D 25/425** (2014.10 - EP); **B42D 25/445** (2014.10 - EP); **B42D 25/455** (2014.10 - EP); **B42D 25/46** (2014.10 - EP); **B32B 2307/41** (2013.01 - US); **B32B 2307/518** (2013.01 - US)

Citation (search report)  
See references of WO 9967093A1

Designated contracting state (EPC)  
AT DE ES FR GB IT NL SE

DOCDB simple family (publication)  
**GB 2338680 A 19991229**; **GB 2338680 B 20000517**; **GB 9813783 D0 19980826**; AU 4521399 A 20000110; AU 741706 B2 20011206; BR 9911330 A 20010403; CA 2333417 A1 19991229; EP 1094943 A1 20010502; ID 29551 A 20010906; KR 20010053087 A 20010625; WO 9967093 A1 19991229

DOCDB simple family (application)  
**GB 9813783 A 19980625**; AU 4521399 A 19990624; BR 9911330 A 19990624; CA 2333417 A 19990624; EP 99928086 A 19990624; GB 9901987 W 19990624; ID 20002693 A 19990624; KR 20007014567 A 20001221