

Title (en)  
IMPROVEMENTS IN AND RELATING TO SECURITY DOCUMENTS

Title (de)  
VERBESSERUNGEN VON UND IN ZUSAMMENHANG MIT SICHERHEITSDOKUMENTEN

Title (fr)  
AMÉLIORATIONS DE DOCUMENTS DE SÉCURITÉ

Publication  
**EP 3166798 B1 20200819 (EN)**

Application  
**EP 15738425 A 20150707**

Priority  

- GB 201412067 A 20140707
- GB 201415728 A 20140905
- GB 201419991 A 20141110
- GB 2015051964 W 20150707

Abstract (en)  
[origin: WO2016005736A1] A method of manufacturing a security device (10) for a security document. The method comprising: providing a substrate (20) having a face (30), the face including a plurality of first walls (50), each first wall (50) being orientated in a first direction and a plurality of second walls (60), each second wall (60) being orientated in a second, different direction; and directing a flow of particles to form a layer of material (70) on one of either (i) each of the plurality of first walls (50) or (ii) each of the plurality of second walls (60).

IPC 8 full level  
**B42D 25/324** (2014.01); **B42D 25/351** (2014.01); **B42D 25/373** (2014.01); **B42D 25/387** (2014.01); **B42D 25/425** (2014.01); **B42D 25/45** (2014.01)

CPC (source: EP)  
**B42D 25/324** (2014.10); **B42D 25/351** (2014.10); **B42D 25/373** (2014.10); **B42D 25/387** (2014.10); **B42D 25/425** (2014.10)

Citation (opposition)  
Opponent : Oberthur Fiduciaire SAS, VHP Security Paper B.V.  

- WO 2011060910 A1 20110526 - GIESECKE & DEVRIENT GMBH [DE], et al
- WO 2008049533 A2 20080502 - GIESECKE & DEVRIENT GMBH [DE], et al
- US 2009317595 A1 20091224 - BREHM LUDWIG [DE], et al
- US 2012068450 A1 20120322 - MACPHERSON CHARLES DOUGLAS [US], et al
- WO 2007093300 A2 20070823 - GIESECKE & DEVRIENT GMBH [DE], et al
- WO 2014096794 A1 20140626 - RUE DE INT LTD [GB]
- WO 2011066991 A2 20110609 - GIESECKE & DEVRIENT GMBH [DE], et al
- GB 2300596 A 19961113 - PORTALS LTD [GB]
- GB 2490603 A 20121107 - DW SPINKS EMBOSsing LTD [GB]
- WO 2012130907 A1 20121004 - OBERTHUR FIDUCIAIRE SAS [FR], et al
- WO 2010100360 A1 20100910 - OBERTHUR TECHNOLOGIES [FR], et al
- US 3887742 A 19750603 - REINNAGEL RICHARD E
- WO 2010151177 A1 20101229 - JOINT STOCK COMPANY RES AND PRODUCTION CORP KRYPTEN [RU], et al
- EP 2598693 B1 20200930 - OBERTHUR FIDUCIAIRE SAS [FR]

Cited by  
CN111791629A

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2016005736 A1 20160114**; AU 2015287440 A1 20170209; AU 2015287440 B2 20200423; CA 2991552 A1 20160114; CA 2991552 C 20230815; EP 3166798 A1 20170517; EP 3166798 B1 20200819

DOCDB simple family (application)  
**GB 2015051964 W 20150707**; AU 2015287440 A 20150707; CA 2991552 A 20150707; EP 15738425 A 20150707