

Title (en)  
MULTI-LAYER BODY AND METHOD FOR THE PRODUCTION THEREOF

Title (de)  
MEHRSCHICHTKÖRPER UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)  
ÉLÉMENT MULTICOUCHE ET PROCÉDÉ POUR LE FABRIQUER

Publication  
**EP 3140127 B1 20200212 (DE)**

Application  
**EP 15724532 A 20150507**

Priority  
• DE 102014106340 A 20140507  
• EP 2015060050 W 20150507

Abstract (en)  
[origin: CA2946085A1] The invention relates to a method for producing a multi-layer body, in particular a security element, comprising the following steps: a) generating a metal layer on a substrate; b) partially demetallising the metal layer in order to form a first item of visual information in a first region of the multi-layer body; c) applying a partial coating layer in a second region of the multi-layer body in order to form a second item of visual information, said partial coating layer extending at least partially beyond the metal layer; d) structuring the partial metal layer in the second region using the partial coating layer as a mask. The invention also relates to a multi-layer body produced in this manner.

IPC 8 full level  
**B42D 25/445** (2014.01); **B42D 25/29** (2014.01); **B42D 25/328** (2014.01); **B42D 25/337** (2014.01); **B42D 25/36** (2014.01); **B42D 25/373** (2014.01); **B42D 25/382** (2014.01); **B42D 25/387** (2014.01); **B42D 25/43** (2014.01); **B42D 25/435** (2014.01)

CPC (source: CN EP US)  
**B41M 1/28** (2013.01 - US); **B41M 3/14** (2013.01 - EP US); **B41M 3/144** (2013.01 - US); **B41M 3/148** (2013.01 - US); **B41M 5/0047** (2013.01 - US); **B41M 5/0058** (2013.01 - US); **B42D 25/21** (2014.10 - US); **B42D 25/328** (2014.10 - CN EP US); **B42D 25/337** (2014.10 - CN EP US); **B42D 25/36** (2014.10 - CN EP US); **B42D 25/364** (2014.10 - CN EP US); **B42D 25/373** (2014.10 - CN EP US); **B42D 25/378** (2014.10 - CN EP US); **B42D 25/382** (2014.10 - CN EP US); **B42D 25/387** (2014.10 - CN EP US); **B42D 25/43** (2014.10 - CN EP US); **B42D 25/435** (2014.10 - CN EP US); **B42D 25/445** (2014.10 - CN EP US); **B44F 1/10** (2013.01 - US)

Citation (opposition)  
Opponent : Hueck Folien Gesellschaft m.b.H.  
• WO 2009053673 A1 20090430 - RUE DE INT LTD [GB], et al  
• DE 102007057658 A1 20090604 - LEONHARD KURZ STIFTUNG & CO KG [DE]  
• EP 1716007 B1 20080709 - HUECK FOLIEN GMBH [AT], et al  
• WO 2008017362 A2 20080214 - OVD KINEGRAM AG [CH], et al  
• WO 2009080262 A1 20090702 - GIESECKE & DEVRIENT GMBH [DE], et al  
• EP 0330733 A1 19890906 - GAO GES AUTOMATION ORG [DE]

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)  
**DE 102014106340 A1 20151112**; **DE 102014106340 B4 20210512**; AR 100330 A1 20160928; CA 2946085 A1 20151112; CA 2946085 C 20220830; CN 106457873 A 20170222; CN 106457873 B 20181109; EP 3140127 A1 20170315; EP 3140127 B1 20200212; ES 2774974 T3 20200723; HR P20200694 T1 20200724; HU E049087 T2 20200928; JP 2017517415 A 20170629; JP 6649275 B2 20200219; PL 3140127 T3 20200824; PT 3140127 T 20200511; RS 59973 B1 20200331; SI 3140127 T1 20200731; US 2017066279 A1 20170309; US 9975370 B2 20180522; WO 2015169895 A1 20151112

DOCDB simple family (application)  
**DE 102014106340 A 20140507**; AR P150101383 A 20150506; CA 2946085 A 20150507; CN 201580023805 A 20150507; EP 15724532 A 20150507; EP 2015060050 W 20150507; ES 15724532 T 20150507; HR P20200694 T 20200429; HU E15724532 A 20150507; JP 2016566887 A 20150507; PL 15724532 T 20150507; PT 15724532 T 20150507; RS P20200213 A 20150507; SI 201531203 T 20150507; US 201515308865 A 20150507