

Title (en)
DEVICE AND METHOD FOR PRINTING SURFACES OF MATERIAL PANELS, ESPECIALLY WOOD PANELS, WITH A MULTI-COLOUR IMAGE

Title (de)
VORRICHTUNG UND VERFAHREN ZUM BEDRUCKEN VON OBERFLÄCHEN VON WERKSTOFFPLATTEN, INSBESONDERE HOLZPLATTEN, MIT EINER MEHRFARBIGEN ABBILDUNG

Title (fr)
DISPOSITIF ET PROCÉDÉ POUR IMPRIMER UNE IMAGE POLYCHROME SUR DES SURFACES DE PANNEAUX DE MATÉRIAU, NOTAMMENT DES PANNEAUX DE BOIS

Publication
EP 2536568 A2 20121226 (DE)

Application
EP 11711441 A 20110217

Priority
• DE 102010008295 A 20100217
• EP 2011000776 W 20110217

Abstract (en)
[origin: CA2823427A1] The invention relates to a printing device (100) for printing surfaces of material panels (30), especially wood panels (10), with a multi-colour image, comprising: means for holding a material panel (30) in an oriented position; a printing unit (110) for printing a surface of the material panel (30), the printing unit (110) comprising a plurality of adjacently arranged printing heads (12, 112), respectively for a plurality of colours, according to the width of the surface to be printed; means for moving the printing unit (110) along an area of displacement over the surface of the material panel (30) held in place; and means for preventing air turbulences in the area of displacement of the printing unit (110). The invention also relates to a method for printing surfaces of material panels, especially wood plates, with a multi-colour image, comprising: the orientation of the material panel (30) such that the surface thereof is in a defined position and at a defined height; holding the material panel (30) in place; moving a printing unit (110) along a path of displacement over the surface of the material panel (30) held in place; and printing the surface of the material panel held in place, by means of the printing unit, the printing unit (110) comprising a plurality of adjacently arranged printing heads (12, 112), respectively for a plurality of colours, according to the width of the surface to be printed. Air turbulences in the path of displacement of the printing unit (110), along the edges of the material panel (30), are prevented by the passage of air guiding devices (130, 132).

IPC 8 full level
B41J 2/21 (2006.01); **B41J 3/28** (2006.01); **B41J 3/407** (2006.01); **B41J 11/06** (2006.01); **B41J 19/20** (2006.01); **B41J 25/304** (2006.01); **B41J 25/308** (2006.01)

CPC (source: EP US)
B41J 2/2132 (2013.01 - US); **B41J 3/28** (2013.01 - EP US); **B41J 3/407** (2013.01 - EP US); **B41J 11/06** (2013.01 - EP US); **B41J 19/202** (2013.01 - EP US); **B41J 25/304** (2013.01 - EP US); **B41J 25/308** (2013.01 - EP US)

Citation (search report)
See references of WO 2011101151A2

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 102010008295 A1 20110818; BR 112012020677 A2 20180710; BR 112012020678 A2 20180327; BR 112012020679 A2 20170214; BR 112012020680 A2 20170214; BR 112012020681 A2 20170214; CA 2823427 A1 20110825; CA 2823432 A1 20110825; CA 2823433 A1 20110825; CA 2823435 A1 20110825; CA 2823437 A1 20110825; CL 2012002289 A1 20121214; CL 2012002291 A1 20130125; CL 2012002292 A1 20130125; CL 2012002294 A1 20130125; CL 2012002295 A1 20121130; CN 102844193 A 20121226; CN 102844194 A 20121226; CN 102844194 B 20160427; CN 102844195 A 20121226; CN 102844195 B 20160309; CN 102858549 A 20130102; CN 102858549 B 20160106; CN 102858550 A 20130102; CN 102858550 B 20160622; EP 2536565 A1 20121226; EP 2536566 A2 20121226; EP 2536567 A1 20121226; EP 2536568 A2 20121226; EP 2536569 A1 20121226; EP 2536569 B1 20150121; EP 2536570 A1 20121226; EP 2536572 A2 20121226; ES 1079066 U 20130423; ES 1079066 Y 20130723; ES 1079067 U 20130423; ES 1079067 Y 20130723; ES 1079068 U 20130423; ES 1079068 Y 20130723; ES 1079069 U 20130423; ES 1079069 Y 20130723; ES 1079070 U 20130423; ES 1079070 Y 20130723; ES 1079071 U 20130423; ES 1079071 Y 20130723; ES 2535238 T3 20150507; RU 2012139441 A 20140327; RU 2012139442 A 20140327; RU 2012139448 A 20140327; RU 2012139449 A 20140327; RU 2012139450 A 20140327; US 2013008333 A1 20130110; US 2013016150 A1 20130117; US 2013016151 A1 20130117; US 2013033544 A1 20130207; US 2013229450 A1 20130905; WO 2011101144 A1 20110825; WO 2011101145 A1 20110825; WO 2011101146 A2 20110825; WO 2011101146 A3 20111027; WO 2011101147 A1 20110825; WO 2011101148 A2 20110825; WO 2011101148 A3 20111020; WO 2011101149 A1 20110825; WO 2011101150 A1 20110825; WO 2011101151 A2 20110825; WO 2011101151 A3 20111027

DOCDB simple family (application)
DE 102010008295 A 20100217; BR 112012020677 A 20110217; BR 112012020678 A 20110217; BR 112012020679 A 20110217; BR 112012020680 A 20110217; BR 112012020681 A 20110217; CA 2823427 A 20110217; CA 2823432 A 20110217; CA 2823433 A 20110217; CA 2823435 A 20110217; CA 2823437 A 20110217; CL 2012002289 A 20120817; CL 2012002291 A 20120817; CL 2012002292 A 20120817; CL 2012002294 A 20120817; CL 2012002295 A 20120817; CN 201180019354 A 20110217; CN 201180019355 A 20110217; CN 201180019358 A 20110217; CN 201180019362 A 20110217; CN 201180019367 A 20110217; EP 11710670 A 20110217; EP 11710671 A 20110217; EP 11710672 A 20110217; EP 11710673 A 20110217; EP 11711441 A 20110217; EP 11712160 A 20110217; EP 11713670 A 20110217; EP 2011000769 W 20110217; EP 2011000770 W 20110217; EP 2011000771 W 20110217; EP 2011000772 W 20110217; EP 2011000773 W 20110217; EP 2011000774 W 20110217; EP 2011000775 W 20110217; EP 2011000776 W 20110217; ES 11712160 T 20110217; ES 201290009 U 20110217; ES 201290010 U 20110217; ES 201290011 U 20110217; ES 201290012 U 20110217; ES 201290013 U 20110217; ES 201290014 U 20110217; RU 2012139441 A 20110217; RU 2012139442 A 20110217; RU 2012139448 A 20110217; RU 2012139449 A 20110217; RU 2012139450 A 20110217; US 201113579532 A 20110217; US 201113579535 A 20110217; US 201113579540 A 20110217; US 201113579542 A 20110217; US 201113579543 A 20110217