

Title (en)  
Method for refining a structural panel

Title (de)  
Verfahren zur Veredelung einer Bauplatte

Title (fr)  
Procédé d'amélioration d'un panneau de construction

Publication  
**EP 1820640 B1 20100526 (DE)**

Application  
**EP 07000311 A 20070109**

Priority  
DE 102006007976 A 20060221

Abstract (en)  
[origin: EP1820640A1] The method involves embossing a structure and a relief (5) in the upper side (2) of the structural panel (1) and applying a decoration (3) on the embossed side of the panel. The decoration is sealed by coating an abrasion-resistant layer (4) on the decoration. A polyurethane or a powder coating is applied as abrasion-resistant layer. The upper, lower and opposite side edges of panel are embossed, particularly of a timber material, plastic or a mixture from timber material and plastic. The structural panel is heated before embossing on a temperature of 40 to 150 degree celsius.

IPC 8 full level  
**B32B 23/00** (2006.01)

CPC (source: EP US)  
**B41F 19/02** (2013.01 - US); **B44B 5/0009** (2013.01 - US); **B44C 1/24** (2013.01 - EP US); **B44C 5/0492** (2013.01 - EP US);  
**B44F 9/02** (2013.01 - EP US); **B44F 9/04** (2013.01 - EP US); **E04F 13/08** (2013.01 - EP US); **E04F 15/02** (2013.01 - EP US)

Cited by  
EP3711970A1; EP3578385A1; EP3885155A1; WO2019233652A1; CN106371165A; EP2784706A3; EP2110267A3; EP2927003A1;  
RU2677704C2; CN106794704A; AT520241A3; ITVE20080081A1; EP3216621A1; CN112423995A; US9796194B2; US11872837B2;  
US9174423B2; WO2015149894A1; WO2011095237A1; WO2009043483A3; WO2009080772A1; WO2016060574A1; WO2009135883A1;  
US11884097B2; EP3702172A1; WO2020178037A1; WO2009080813A1; EP3578382A1; WO2019234239A1; US11220130B2; US8366854B2;  
US11156004B2; EP3578383A1; EP4159470A1

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 LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1820640 A1 20070822; EP 1820640 B1 20100526**; AT E468969 T1 20100615; DE 102006007976 A1 20070830;  
DE 102006007976 B4 20071108; DE 502007003894 D1 20100708; ES 2345567 T3 20100927; PL 1820640 T3 20101231;  
PT 1820640 E 20100820; US 2007193174 A1 20070823; US 9365028 B2 20160614

DOCDB simple family (application)  
**EP 07000311 A 20070109**; AT 07000311 T 20070109; DE 102006007976 A 20060221; DE 502007003894 T 20070109;  
ES 07000311 T 20070109; PL 07000311 T 20070109; PT 07000311 T 20070109; US 67474307 A 20070214