

Title (en)
Decorative coating of a plate of wooden material

Title (de)
Dekoratives Veredeln einer Holzwerkstoffplatte

Title (fr)
Ennoblement décoratif d'une plaque de matériel de bois

Publication
EP 1454763 A2 20040908 (DE)

Application
EP 03020230 A 20030906

Priority
DE 10310199 A 20030306

Abstract (en)
A method for finishing wood-based panels, especially MDF or HDF panels, involves sealing with melamine resin and printing a pattern directly onto the sealing layer before adding a protective layer of melamine resin and hot-pressing as usual. A method for finishing sheets of wood or timber products, especially MDF or HDF sheet, involves (a) coating the top of the sheet with a sealing layer (A) of melamine resin, (b) printing a pattern onto the sealing layer, (c) coating the pattern with a protective layer (B) of melamine resin and (d) pressing the sheet at elevated temperature until layers (A) and (B) melt and bond together with the printed pattern between them. An independent claim is also included for timber sheeting, especially HDF or MDF flooring panels with a wood or tile pattern, in which the base panel is coated with a sealing layer which is then printed with a pattern and provided with protective anti-wear coating(s).

Abstract (de)
Ein Verfahren zum Veredeln einer Holz- oder Holzwerkstoffplatte, insbesondere MDF- oder HDF-Platte mit einer Oberseite und einer Unterseite, zeichnet sich durch folgende Schritte aus: a): Auftragen einer Versiegelungsschicht aus Melaminharz auf die Oberseite der Platte, b): Aufdrucken eines Dekors auf die Versiegelungsschicht, c): Auftragen einer Schutzschicht aus Melaminharz auf das Dekor, d): Verpressen der Platte unter Temperatureinwirkung, bis die Schutzschicht und die Versiegelungsschicht schmelzen und sich unter Einschluss des aufgedruckten Dekors miteinander verbinden.

IPC 1-7
B44C 5/04; B44B 5/00

IPC 8 full level
B05D 7/06 (2006.01); **B27N 3/04** (2006.01); **B27N 7/00** (2006.01); **B44B 5/00** (2006.01); **B44C 5/04** (2006.01); **E04F 15/02** (2006.01)

CPC (source: EP)
B27N 7/005 (2013.01); **B44C 1/24** (2013.01); **B44C 5/043** (2013.01); **E04F 15/02** (2013.01); **E04F 15/02033** (2013.01); **E04F 15/181** (2013.01); **E04F 2290/043** (2013.01)

Cited by
EP1859912A1; EP2236313A1; EP2402174A1; EP2589499A1; EP2179864A1; EP2338693A1; WO2012037950A1; WO2011076305A1; WO2010112125A1; US9573343B2; US9605168B2; EP1858244A1; EP2036741A3; CN100449090C; EP1990186A3; EP2837737A1; US9409382B2; CN102917888A; EP3053757A1; EP3290173A1; EP3766651A1; CN114072282A; CN102171057A; DE102005042658B3; EP1762671A1; EP2179863A1; EP3470193A1; EP2098304A3; EP1512468A3; CN103118878A; AU2010361006B2; US10369837B2; CN102083636A; EP4321336A3; WO2009124704A1; WO2009080813A1; US10286633B2; US10899166B2; EP1820640A1; CN101998896A; BE1018954A3; CN103889724A; AT520241A3; EP3792058A1; EP2808636B1; EP2406045A1; WO2011129757A1; WO2016124433A1; WO2021008946A3; US10315219B2; US10442164B2; US10857765B2; US11040371B2; US10556461B2; US10307984B2; US10344379B2; US10967608B2; US11541630B2; US11597187B2; US8366854B2; US8419877B2; US8481111B2; US9783996B2; US10017950B2; US10364578B2; US11401718B2; WO2011045690A3; WO2013056745A1; US9759653B2; US9994010B2; US10214913B2; US10899121B2; US10828881B2; US11167533B2; US11904588B2; WO2018096213A1; US9238356B2; US10071563B2; US10737506B2; US10981362B2; US11090972B2; US11173722B2; US11738540B2; US7811489B2; WO2011045690A2; US8349234B2; US8973270B2; US8993049B2; EP2942207A1; US9273472B2; US9809984B2; US10041259B2; EP3508352A1; US10913176B2; US11046063B2; WO2010103417A1; US8632875B2; US1013094B2; US10926509B2; US11292291B2; US11752657B2; US8349234B2; US8973270B2; US8993049B2; EP2942207A1; WO2015169450A1; US10036169B2; EP3378675A1; US10059030B2; US10392812B2; US11186997B2; US11905717B2; US10800186B2; US11072156B2; US11235565B2; US11485126B2; US11511318B2; US11717850B2; US11717851B2; US11883843B2; EP2402173A1; EP2572896A1; US8512804B2; EP3067219A1; US9522567B2; US10226960B2; EP3858639A1; US11313123B2; US11472224B2; US11633884B2; WO2014167472A1; US9695599B2; US9890542B2; US10125499B2; US10328680B2; US10358831B2; US10493729B2; US10519674B2; US10745921B2; US10975579B2; US10975578B2; US11077652B2; US11135814B2; US11680414B2; US11933055B2; US8833259B2; US9199449B2; US9783995B2; US10094123B2; US10100533B2; US10233655B2; US10301831B2; US10597876B2; US10815676B2; US10876303B2; US10889998B2; US10927553B2; US11193282B2; US11236514B2; US11377857B2; US11505949B2; WO2011141850A2; EP2979895A1; US9670683B2; US9670682B2; US10100535B2; US10190323B2; US10208490B2; US10214921B2; US10267048B2; US10428534B2; US10550582B2; EP3690165A1; US10870994B2; US10988941B2; US11015352B2; US11318726B2; US11371249B2; US11370209B2; US11559824B2; US11566432B2; US11634913B2; US11634914B2; US11668099B2; US11702849B2; US11795702B2; US11890847B2; EP2452829B2; EP3878648B1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1454763 A2 20040908; EP 1454763 A3 20050817; EP 1454763 B1 20090805; EP 1454763 B2 20160608; AT E438519 T1 20090815; DE 10310199 A1 20040923; DE 10310199 B4 20070920; DE 50311774 D1 20090917; EP 2105320 A1 20090930; EP 2105320 B1 20121017; ES 2328236 T3 20091111; ES 2328236 T5 20161115; ES 2394744 T3 20130205; PT 2105320 E 20121212

DOCDB simple family (application)
EP 03020230 A 20030906; AT 03020230 T 20030906; DE 10310199 A 20030306; DE 50311774 T 20030906; EP 09005141 A 20030906; ES 03020230 T 20030906; ES 09005141 T 20030906; PT 09005141 T 20030906