

Title (en)  
METHOD FOR IMPREGNATING LIGNOCELLULOSIC MATERIALS WITH EFFECT AGENTS

Title (de)  
VERFAHREN ZUM IMPRÄGNIEREN VON LIGNOCELLULOSE MATERIALIEN MIT EFFEKTSTOFFEN

Title (fr)  
PROCEDE D'IMPREGNATION DE MATERIAUX LIGNOCELLULOSIQUES AVEC DES SUBSTANCES D'EFFET

Publication  
**EP 1885533 A2 20080213 (DE)**

Application  
**EP 06753452 A 20060428**

Priority  
• EP 2006004019 W 20060428  
• DE 102005020386 A 20050502

Abstract (en)  
[origin: WO2006117162A2] The invention relates to a method for impregnating lignocellulosic materials, in particular, wood, wood materials or materials for manufacturing wood materials, with effect agents. The invention also relates to novel compositions, containing effect agents. Said method comprises the steps of a) impregnating the lignocellulosic material with a fluid formulation, which contains at least one effect agent in a dissolved or dispersed form, b) impregnating said material, during or after step a), with a hardenable aqueous composition, which contains at least one cross-linkable compound, selected from a) low-molecular weight compounds V, having at least two N-bonded groups of formula CH<SUB>2</SUB>OH, wherein R = hydrogen or C<SUB>1</SUB>-C<SUB>4</SUB> alkyl, and/or one 1,2-bishydroxyethan-1,2-diyl group, bridging two nitrogen atoms, β) precondensates of the compound V and γ) reaction products or mixtures of the compound V with at least one alcohol, selected from C<SUB>1</SUB>-C<SUB>6</SUB> alkanols, C<SUB>2</SUB>-C<SUB>6</SUB> polyols and oligoalkylene glycols, and c) treating the material obtained in step b) at an elevated temperature.  
[origin: WO2006117162A2] Method for impregnating lignocellulosic material with effect agents, comprises impregnating the lignocellulosic material with a fluid formation, which contains at least one effect agent in a dissolved or dispersed form; impregnating the material with a hardenable aqueous composition, which contains at least one cross-linkable compound; and treating the material obtained at an elevated temperature. Method for impregnating lignocellulosic material with effect agents, comprises impregnating the lignocellulosic material with a fluid formation, which contains at least one effect agent in a dissolved or dispersed form; impregnating the material with a hardenable aqueous composition, which contains at least one cross-linkable compound such as low-molecular weight compounds (V), having at least two N-bonded groups of formula (CH<sub>2</sub>OR) and/or one 1,2-bishydroxyethane-1,2-diyl group, bridging two nitrogen atoms, precondensates the compound (V), and reaction products or mixtures of the compound (V) with at least one alcohol such as 1-6C alkanols, 2-6C polyols and oligoalkylene glycols; and treating the material obtained at an elevated temperature. R : H or 1-4C alkyl. Independent claims are also included for: (1) a lignocellulose material, is obtained by the process; and (2) an aqueous composition comprising dissolved or dispersed form of effect agent and hardenable compound.

IPC 8 full level  
**B27K 5/00** (2006.01); **B27K 3/15** (2006.01); **B27K 3/24** (2006.01); **C07D 233/40** (2006.01)

CPC (source: EP KR US)  
**B27K 3/007** (2013.01 - EP US); **B27K 3/0292** (2013.01 - EP US); **B27K 3/15** (2013.01 - KR); **B27K 3/153** (2013.01 - EP US); **B27K 3/34** (2013.01 - KR); **B27K 3/343** (2013.01 - EP US); **B27K 5/00** (2013.01 - KR); **B27K 5/02** (2013.01 - EP US); **C07D 233/40** (2013.01 - KR); **C09D 15/00** (2013.01 - EP US); **Y10T 428/253** (2015.01 - EP US)

Citation (search report)  
See references of WO 2006117162A2

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)  
**WO 2006117162 A2 20061109**; **WO 2006117162 A3 20070125**; AR 054352 A1 20070620; AU 2006243371 A1 20061109; BR PI0610472 A2 20161108; CA 2606781 A1 20061109; CN 101171109 A 20080430; EP 1885533 A2 20080213; JP 2008540159 A 20081120; KR 20080005252 A 20080110; MX 2007012874 A 20071210; NO 20075190 L 20071228; RU 2007144304 A 20090610; US 2008160288 A1 20080703

DOCDB simple family (application)  
**EP 2006004019 W 20060428**; AR P060101720 A 20060428; AU 2006243371 A 20060428; BR PI0610472 A 20060428; CA 2606781 A 20060428; CN 200680015116 A 20060428; EP 06753452 A 20060428; JP 2008509351 A 20060428; KR 20077025413 A 20071101; MX 2007012874 A 20060428; NO 20075190 A 20071011; RU 2007144304 A 20060428; US 91308006 A 20060428