

Title (en)

Method of reducing the emissions of fleeting organic compounds in wooden materials and wooden material

Title (de)

Verfahren zur Verminderung der Emission von flüchtigen organischen Verbindungen aus Holzwerkstoffen und Holzwerkstoffe

Title (fr)

Procédé destiné à la réduction de l'émission de composés organiques liquides à partir de matières dérivées du bois et matières dérivées du bois

Publication

EP 2607032 B1 20200122 (DE)

Application

EP 11194281 A 20111219

Priority

EP 11194281 A 20111219

Abstract (en)

[origin: EP2607032A1] Preparing wood products comprises: (a) providing lignocellulose containing comminution products; (b1) introducing a first additive to the lignocellulose containing comminution products, where the first additive is an amidine compound (I); (b2) introducing a second additive to the lignocellulose-containing comminution products, where the second additive is borate, aluminate and/or phosphate; and (c) optionally compressing the lignocellulose containing comminution products mixed with the additive/additives with an adhesive under heat treatment to form wood material. Preparing wood products comprises: (a) providing lignocellulose containing comminution products; (b1) introducing a first additive to the lignocellulose containing comminution products, where the first additive is an amidine compound of formula $(RC(=NH)-NH)_2$ (I) or optionally its salt; (b2) introducing a second additive to the lignocellulose-containing comminution products, where the second additive is borate, aluminate and/or phosphate; and (c) optionally compressing the lignocellulose containing comminution products mixed with the additive/additives with an adhesive under heat treatment to form wood material, where the addition of the additives can be reduced according to the emission of volatile organic compounds and optionally very volatile organic compounds, preferably acids and terpenes. R : a carbonaceous group or an amine group, Independent claims are included for: (1) a treating agent for reducing the emission of volatile organic compounds and optionally very volatile organic compounds, preferably terpenes and acids from the lignocellulose containing comminution products and wood composites from lignocellulose containing comminution products comprising (I) and at least one borate; and (2) the wood product, preferably a fiber plate, which is a light and super lightweight medium density fiberboard or oriented strand board obtained by the above method.

IPC 8 full level

B27N 1/00 (2006.01)

CPC (source: EP)

B27N 1/003 (2013.01)

Citation (examination)

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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)

EP 2607032 A1 20130626; EP 2607032 B1 20200122; ES 2773350 T3 20200710; HU E049225 T2 20200928; PL 2607032 T3 20200727; PT 2607032 T 20200429

DOCDB simple family (application)

EP 11194281 A 20111219; ES 11194281 T 20111219; HU E11194281 A 20111219; PL 11194281 T 20111219; PT 11194281 T 20111219