

Title (en)

A METHOD FOR THE THERMOMECHANICAL DENSIFICATION OF POPLAR PLYWOOD

Title (de)

VERFAHREN ZUR THERMOMECHANISCHEN VERDICHTUNG VON PAPPELSPERRHOLZ

Title (fr)

PROCÉDÉ DE DENSIFICATION THERMOMÉCANIQUE DE CONTREPLAQUÉ DE PEUPLIER

Publication

EP 3323573 A1 20180523 (EN)

Application

EP 17202100 A 20171116

Priority

PL 41949916 A 20161117

Abstract (en)

The subject of the invention is a method of the thermomechanical densification of poplar plywood consisting of heating poplar plywood characterised by the fact that plywood of a moisture of 5-15% is subjected to is subjected to interval compression between the press plates, where the poplar plywood is heated to a temperature between 70° -105°C, and then compressed in 2-3 cycles under pressure of 5-20MPa, reducing the thickness of the plywood to 25-50% of its original thickness. Furthermore, the plywood obtained by the method according to the invention is characterized by relative deformations of 50%-75%

IPC 8 full level

B27M 1/02 (2006.01); **B27K 5/00** (2006.01); **B27K 5/06** (2006.01)

CPC (source: EP)

B27K 5/001 (2013.01); **B27K 5/007** (2013.01); **B27K 5/06** (2013.01); **B27M 1/02** (2013.01); **B27K 2200/30** (2013.01)

Citation (applicant)

- PL 215663 A2 19800211 - BASF AG [DE]
- US 7404422 B2 20080729 - KAMKE FREDERICK A [US], et al

Citation (search report)

- [Y] CN 101603623 A 20091216 - ZHEJIANG SHIYOU TIMBER CO LTD [CN]
- [IY] US 4606388 A 19860819 - FAVOT PETER [CA]
- [I] US 6689301 B1 20040210 - MOYES HARTLEY [GB]

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3323573 A1 20180523; **EP 3323573 B1 20200916**; ES 2837023 T3 20210629; PL 238810 B1 20211004; PL 3323573 T3 20210308; PL 419499 A1 20180521

DOCDB simple family (application)

EP 17202100 A 20171116; ES 17202100 T 20171116; PL 17202100 T 20171116; PL 41949916 A 20161117