

Title (en)
Process for production of wood fiber insulating panels

Title (de)
Verfahren zur Herstellung einer Holzfaserdämmstoffplatte bzw. -matte

Title (fr)
Process for production of wood fiber insulating panels

Publication
EP 1674224 B1 20110323 (DE)

Application
EP 05090341 A 20051219

Priority
DE 102004062649 A 20041221

Abstract (en)
[origin: EP1674224A1] Manufacturing method involves installing of wood fibers and binding fibers from bale openers over separate weighing devices downstreamed to bale openers in desired mixture ratio equally in blowing line. Wood fibers and binding fibers are conveyed pneumatically to a storage tank through blowing line. Fiber mixture is blown from the storage tank on first transport band under spatial adjustment of fibers. A thermally activated synthetic granule is spread out on the fiber mat over the entire width. The deposited mat defibers at the end of the first transport band and blown after reblending on a second transport band under spatial adjustment of the fiber. The thickness of the deposited mat is adjusted by the velocity of circulation of second transport band, alternatively a fiber mat, fiber core or a foil is applied. The final thickness of the wood fiber insulating board is from 3 to 350 mm, preferably 4 to 250 mm, by calibration and/or compression. Independent claims are also included for the following: (A) Wood fiber insulating board and/or mat; (B) Wood fiber acoustic insulating board; (C) Wood fiber insulating board for absorber or resonator; (D) Wood fiber/Flax fibre-insulating board; (E) Wood fiber impact sound insulating mat for laminating- and parquet-floors; (F) Wood fiber insulating board as surface board in the dry mortarless construction; (G) Wood fiber rafter top insulating board; (H) Wood fiber-WDVS-carrier board; and (I) Passage safe wood fiber insulating board.

IPC 8 full level
B27N 3/00 (2006.01); **B27N 3/04** (2006.01); **B27N 3/14** (2006.01)

CPC (source: EP US)
B27N 3/002 (2013.01 - EP US); **B27N 3/04** (2013.01 - EP US); **B27N 3/14** (2013.01 - EP US)

Cited by
EP3150345A1; EP3170635A1; RU2684738C1; CN110142831A; RU2766676C2; WO2017198473A1; WO2015155105A1; US10730202B2; EP3725482A1; WO2016135415A1; WO2017084884A1; US11905717B2; US10369721B2; US11072087B2

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 1674224 A1 20060628; **EP 1674224 B1 20110323**; AT E502746 T1 20110415; DE 102004062649 A1 20060713; DE 102004062649 B4 20060907; DE 102004062649 C5 20130606; DE 502005011154 D1 20110505; ES 2361753 T3 20110621; PL 1674224 T3 20110831; PT 1674224 E 20110602; US 2006143869 A1 20060706; US 8273201 B2 20120925

DOCDB simple family (application)
EP 05090341 A 20051219; AT 05090341 T 20051219; DE 102004062649 A 20041221; DE 502005011154 T 20051219; ES 05090341 T 20051219; PL 05090341 T 20051219; PT 05090341 T 20051219; US 31470405 A 20051221