

Title (en)

Composite wood board and method for producing same

Title (de)

Holzwerkstoffplatte sowie ein Verfahren zum Herstellen einer Holzwerkstoffplatte

Title (fr)

Plaque en matériau dérivé du bois et procédé de fabrication d'une plaque en matériau dérivé du bois

Publication

EP 2223786 A1 20100901 (DE)

Application

EP 09002727 A 20090226

Priority

EP 09002727 A 20090226

Abstract (en)

The board has a middle layer made of a mixture of derived timber material i.e. wood chips or wood fibers (2), and foamed natural material (4) i.e. foamed plastic. The foamed natural material is selected from corn, rice, wheat or a mixture of corn, rice and wheat. The derived timber material of the middle layer exhibits smaller density than derived timber material of an outer layer. The middle layer includes filament-like reinforcing fibers (5), which are made of carbon or glass fibers. The middle layer includes latent heat storage units to increase heat storage capacity. An independent claim is also included for a method for manufacturing a derived timber material board consisting of three layers.

Abstract (de)

Eine Holzwerkstoffplatte mit mindestens drei Schichten aus einem Holzwerkstoff, deren wenigstens eine mittlere Schicht aus einem Gemisch aus Holzwerkstoff und einem geschäumten Kunststoff besteht, zeichnet sich dadurch aus, dass die mittlere Schicht zusätzlich mindestens einen geschäumten natürlichen Werkstoff aufweist.

IPC 8 full level

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CPC (source: EP US)

B27N 3/005 (2013.01 - EP US); **B27N 3/04** (2013.01 - EP US); **Y10T 428/24992** (2015.01 - EP US); **Y10T 428/249953** (2015.04 - EP US); **Y10T 428/249986** (2015.04 - EP US)

Citation (applicant)

- DE 202006020503 U1 20081009 - BASF SE [DE]
- EP 1561554 A1 20050810 - KRONOTEC AG [CH]
- JP 2002338373 A 20021127 - KOA FUNENBAN KOGYO KK
- DE 1185806 B 19650121 - PROGRESSBAU ETS
- US 5554429 A 19960910 - IWATA RITSUO [JP], et al
- DE 4226988 A1 19940217 - SCHMUCKER WULFRAM JOHN [DE]
- EP 1253257 A1 20021030 - UNIDEK BOUWELEMENTEN [NL]
- DE 102004006385 A1 20050901 - KRONOTEC AG [CH]

Citation (search report)

- [X] WO 2008116466 A2 20081002 - BIOBIQ AS [DK], et al
- [DA] EP 1561554 A1 20050810 - KRONOTEC AG [CH]
- [A] EP 0546956 A2 19930616 - GOMEZ DANIEL [FR], et al
- [A] US 5300333 A 19940405 - WILKERSON C WILLIAM [US], et al
- [A] DE 1808349 A1 19700521 - REMY FRIEDR NFG
- [A] US 5607983 A 19970304 - CHI HONG [CN], et al

Cited by

DE102013101937A1; EP2397291A1; DE102010024515A1; DE102010024515B4

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