Title (en)

LIGHTWEIGHT PANEL AND METHOD FOR THE PRODUCTION THEREOF

Title (de)

LEICHTBAUPLATTE UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)

PANNEAU LÉGER ET SON PROCÉDÉ DE PRODUCTION

Publication

EP 2946044 A1 20151125 (DE)

Application

EP 14700656 A 20140115

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Abstract (en)

[origin: WO2014111425A1] The invention relates to a novel lightweight panel (100), comprising layers (01, 02, 03, 04...) bound to one another in a planar manner, which are each formed from groups (20) of boards (2), wherein the boards (2) of each layer (01, 02, 03, 04...) are laterally bound to one another at lateral edges of the boards and each have a group of grooves that are parallel to one another on at least one main face (205, 205') and the boards of a first and a second layer (01, 02) are oriented perpendicular to one another and at a first acute angle (+α, -α) of 25 to 60° to the longitudinal lateral edges (200, 200') of the lightweight panel (100). The boards (2) are laterally bound to one another in a form-closed manner at the lateral edges of the boards by means of a groove (202) and a tongue (2021). The boards (2) of at least one layer (01, 02) of a middle ply (MI) are each provided on both sides (205, 205'), or rather in both main faces (205, 205'), with a first and a second group of grooves (3, 3') that intersect one another at angles (γ) from 5 to 100°. Because of the intersecting groove groups, lightweight panels having minimal internal stresses and high load capacity can be provided.

IPC 8 full level

E04C 2/12 (2006.01); **E04C 2/14** (2006.01)

CPC (source: EP RU)

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