

Title (en)

METHOD AND DEVICE FOR PRODUCING A MATERIAL COMPOSITE AND USE THEREOF

Title (de)

VERFAHREN UND VORRICHTUNG ZUM HERSTELLEN EINES WERKSTOFFVERBUNDES SOWIE DESSEN VERWENDUNG

Title (fr)

PROCÉDÉ ET DISPOSITIF DE PRODUCTION D'UN COMPOSITE DE MATIÈRES ET SON UTILISATION

Publication

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Application

**EP 17701272 A 20170104**

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Abstract (en)

[origin: WO2017125261A1] The invention relates to a method and a device for producing a material composite (2) having at least two layers (3, 4) made of a metal material and at least one layer arranged between the two layers and made of a polymer matrix material (5), comprising the following steps: providing two metal bundles (6, 7), and a bundle (8) with a polymer film, unwinding the bundles and continuously supplying the metal bands (3, 4) and the polymer film (5) to a respective pre-heating unit; pre-heating the metal bands (3, 4) and the polymer film (5) in the pre-heating units (9, 10, 11) and continuously supplying to a coating-laminating-calendering unit (12) to create a material composite using pressure and/or temperature, subsequently supplying the composite (2) to at least one cooling unit (13) and/or at least one post-processing unit (14) and subsequently cutting to length the material composite to form sheets or winding up the material composite to form a bundle, wherein the first and the second metal band (3, 4) pass through at least a respective pre-treatment unit in a conditioning station (16.1, 17.1) between the unwinding and the pre-heating units (9, 10, 11), and the respective conditioned sides of the metal bands (3, 4) are brought into contact with the polymer film (5) in the coating-laminating-calendering unit (12) and joined to one another.

IPC 8 full level

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