

Title (en)
METHOD FOR MANUFACTURING A FIBROUS MATERIAL PRE-IMPREGNATED WITH THERMOPLASTIC POLYMER IN A FLUIDISED BED

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES MIT THERMOPLASTISCHEM POLYMER VORIMPRÄGNIERTEN FASERSTOFFES IN EINEM WIRBELBETT

Title (fr)
PROCEDE DE FABRICATION D'UN MATERIAU FIBREUX PRE-IMPREGNE DE POLYMERE THERMOPLASTIQUE EN LIT FLUIDISE

Publication
EP 3898159 A1 20211027 (FR)

Application
EP 19817366 A 20191216

Priority
• EP 18306720 A 20181218
• EP 2019085282 W 20191216

Abstract (en)
[origin: WO2020126996A1] Method for manufacturing a material comprising a fibrous material with continuous fibres and a thermoplastic polymer matrix, the material being produced as a unidirectional band, the method comprising a step of pre-impregnation of a strand (81a) of the fibrous material by the matrix in powdered form, the pre-impregnation step being carried out in a fluidised bed (22) comprising a grooved roller component (82), the strand (81a) being in contact with the surface of the roller component (82) and comprising up to 0.1% by weight of sizing, the matrix rate being controlled by controlling the dwell time in the powder and by constantly controlling the tension of the strand (81a) when it is introduced into the fluidised bed.

IPC 8 full level
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