

Title (en)
SEMI-FINISHED PRODUCT AND METHOD FOR PRODUCING A STRUCTURAL COMPONENT

Title (de)
HALBZEUG UND VERFAHREN ZUR HERSTELLUNG EINES STRUKTURBAUTEILS

Title (fr)
PRODUIT SEMI-FINI ET PROCÉDÉ DE FABRICATION D'UN COMPOSANT STRUCTURAL

Publication
EP 3860835 A2 20210811 (DE)

Application
EP 19779842 A 20190926

Priority
• DE 102018217018 A 20181004
• EP 2019076079 W 20190926

Abstract (en)
[origin: WO2020069978A2] The present invention relates to a semi-finished product (1) for producing a structural component (B), comprising a plurality of prepreg strips (2), each of which comprises unidirectionally arranged reinforcement fibers (21) embedded in a thermoplastic matrix material (20), and a plurality of connecting strands (3) containing a thermoplastic plastic material (30). The prepreg strips (2) and the connecting strands (3) are either connected to form a textile fabric structure (4) or the prepreg strips (2) are arranged to form a multi-axial scrim (6), wherein individual layers (60) of the scrim (6) are connected by the connecting strands (3). The invention further relates to a method for producing a curved structural component (B) from such a semi-finished product (1).

IPC 8 full level
B29C 70/42 (2006.01); **B29C 70/22** (2006.01); **B32B 5/02** (2006.01); **C08J 5/24** (2006.01); **D03D 17/00** (2006.01); **D04H 3/04** (2012.01); **D04H 3/08** (2006.01); **B29K 101/12** (2006.01)

CPC (source: EP US)
B29C 35/0805 (2013.01 - US); **B29C 70/222** (2013.01 - EP US); **B29C 70/42** (2013.01 - EP); **B29C 70/465** (2013.01 - US); **B32B 5/02** (2013.01 - EP US); **B32B 5/26** (2013.01 - EP US); **B32B 7/09** (2019.01 - US); **C08J 5/04** (2013.01 - EP); **C08J 5/24** (2013.01 - US); **D03D 1/00** (2013.01 - EP); **D03D 15/46** (2021.01 - EP US); **D03D 15/47** (2021.01 - EP US); **D03D 15/587** (2021.01 - EP); **D04H 3/04** (2013.01 - EP); **D04H 3/14** (2013.01 - EP); **B29C 2035/0811** (2013.01 - US); **B29K 2101/12** (2013.01 - EP US); **B29K 2105/0845** (2013.01 - US); **B29K 2105/0881** (2013.01 - US); **B29K 2995/0046** (2013.01 - EP); **B32B 2260/023** (2013.01 - EP US); **B32B 2260/046** (2013.01 - EP US); **B32B 2262/02** (2013.01 - EP); **B32B 2262/10** (2013.01 - EP); **B32B 2262/101** (2013.01 - EP); **B32B 2262/103** (2013.01 - EP); **B32B 2262/105** (2013.01 - EP); **B32B 2262/106** (2013.01 - EP); **B32B 2305/076** (2013.01 - EP US); **B32B 2605/18** (2013.01 - EP US); **C08J 2300/22** (2013.01 - EP US); **D10B 2401/041** (2013.01 - EP US); **D10B 2505/02** (2013.01 - EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2020069978 A2 20200409; **WO 2020069978 A3 20200528**; DE 102018217018 A1 20200409; EP 3860835 A2 20210811; US 2021370620 A1 20211202

DOCDB simple family (application)
EP 2019076079 W 20190926; DE 102018217018 A 20181004; EP 19779842 A 20190926; US 201917282266 A 20190926