

Title (en)

WOVEN COMPOSITE MADE BY ADDITIVE MANUFACTURING

Title (de)

DURCH GENERATIVE FERTIGUNG HERGESTELLTER GEWEBTER VERBUNDWERKSTOFF

Title (fr)

COMPOSITE TISSÉ FABRIQUÉ PAR FABRICATION ADDITIVE

Publication

**EP 3707000 A1 20200916 (EN)**

Application

**EP 18800166 A 20181109**

Priority

- GB 201718619 A 20171110
- EP 2018080834 W 20181109

Abstract (en)

[origin: WO2019092217A1] A 3D-printed, woven composite material is formed from a continuous filament. The woven material may comprise two sets of parallel segments formed from the same continuous filament, wherein the parallel segments of the first set cross the parallel segments of the second set in an under-over pattern. A unit cell of the pattern may comprise N segments of the first set and M segments of the second set, and if segment n 1 of the first set crosses segment m of the second set and segment n 2 of the first set crosses more segments of the second set than segment n 1, segment n 2 may also cross segment m for all n 1, n 2 ∈ N and all m ∈ M. A method and apparatus for producing such a woven composite material are also disclosed.

IPC 8 full level

**B33Y 10/00** (2015.01); **B29C 64/141** (2017.01); **B29C 70/22** (2006.01); **B29C 70/38** (2006.01); **B32B 5/02** (2006.01); **B32B 5/26** (2006.01); **B32B 27/34** (2006.01); **B33Y 30/00** (2015.01); **D03D 15/02** (2006.01); **D03D 25/00** (2006.01)

CPC (source: EP US)

**B29B 11/16** (2013.01 - EP); **B29C 64/141** (2017.07 - EP); **B29C 70/22** (2013.01 - EP); **B29C 70/382** (2013.01 - EP); **B33Y 10/00** (2014.12 - EP); **D03D 1/00** (2013.01 - EP); **D03D 15/267** (2021.01 - EP); **D03D 15/47** (2021.01 - EP US); **D03D 15/587** (2021.01 - EP); **D03D 25/005** (2013.01 - EP); **B29C 64/20** (2017.07 - EP); **B29K 2995/0089** (2013.01 - EP); **B29K 2995/0091** (2013.01 - EP); **B33Y 30/00** (2014.12 - EP); **D10B 2101/06** (2013.01 - EP); **D10B 2101/12** (2013.01 - EP); **D10B 2331/021** (2013.01 - EP); **D10B 2505/02** (2013.01 - EP)

Citation (search report)

See references of WO 2019092217A1

Designated contracting state (EPC)

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