

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

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CPC (source: EP US)

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Citation (search report)

See references of WO 2019092217A1

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