

Title (en)  
INTERLACED COMPOSITES INTEGRATED WITH TRANSMISSION MATERIAL AND METHOD FOR FABRICATING THE SAME

Title (de)  
MIT ÜBERTRAGUNGSMATERIAL INTEGRIERTE VERFLOCHTENE VERBUNDWERKSTOFFE UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)  
COMPOSITES ENTRELACÉS INTÉGRÉS À UN MATÉRIAU DE TRANSMISSION ET LEUR PROCÉDÉ DE FABRICATION

Publication  
**EP 4072836 A4 20240110 (EN)**

Application  
**EP 20897907 A 20201210**

Priority  

- US 201916711668 A 20191212
- US 2020064157 W 20201210

Abstract (en)  
[origin: WO202119224A1] A machine for fabricating three-dimensional interlaced composite components including a frame, a deposition surface, a first set of two or more warp heads, a second set of two or more of warp heads, and a weft inserter. An interlaced composite component including a first set of two or more warp filaments parallel to each other and a first set of two or more weft filaments parallel to each other. Warp filaments are interlaced with, and bonded to, weft filaments s. Warp filaments and weft filaments are interlaced in at least two different weave patterns. Warp filaments and weft filaments are continuous, and the weave patterns transition from one pattern to another.

IPC 8 full level  
**B29C 70/22** (2006.01); **B29C 64/00** (2017.01); **B29C 70/24** (2006.01); **B29C 70/50** (2006.01); **B29C 70/54** (2006.01); **B29C 70/88** (2006.01); **B33Y 30/00** (2015.01); **D03D 1/00** (2006.01); **D03D 15/533** (2021.01); **D03D 15/547** (2021.01); **D03D 15/67** (2021.01); **D03D 41/00** (2006.01); **B29K 105/08** (2006.01)

CPC (source: EP KR)  
**B29C 70/22** (2013.01 - EP KR); **B29C 70/545** (2013.01 - EP KR); **B29C 70/88** (2013.01 - EP KR); **B29C 70/885** (2013.01 - EP KR); **D03D 1/0088** (2013.01 - EP); **D03D 15/533** (2021.01 - EP); **D03D 15/547** (2021.01 - EP); **D03D 15/67** (2021.01 - EP); **D03D 41/00** (2013.01 - EP); **B29C 64/118** (2017.08 - EP); **B33Y 10/00** (2014.12 - EP KR); **B33Y 30/00** (2014.12 - KR); **B33Y 70/00** (2014.12 - EP KR); **B33Y 80/00** (2014.12 - EP); **D10B 2101/20** (2013.01 - EP); **D10B 2401/16** (2013.01 - EP); **D10B 2401/18** (2013.01 - EP); **D10B 2401/20** (2013.01 - EP)

Citation (search report)  

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- [X] US 5568964 A 19961029 - PARKER JEFFERY R [US], et al
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- [X] EP 2971302 B1 20180829 - BEKAERT SA NV [BE]
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- [X] US 2016333503 A1 20161117 - SHEN CHIEN-LUNG [TW], et al
- See also references of WO 202119224A1

Designated contracting state (EPC)  
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**US 2020064157 W 20201210**; EP 20897907 A 20201210; JP 2022534639 A 20201210; KR 20227023995 A 20201210