

Title (en)
PILE LAYER COMPRISING BUNDLES OF CARBON FIBERS

Title (de)
FLORSCHICHT MIT CARBONFASERN UMFASSENDEN BÜNDELN

Title (fr)
COUCHE DE MATÉRIAU A POILS CONTENANT DES FIBRES DE CARBONE EN FAISCEAUX

Publication
EP 2635733 A1 20130911 (DE)

Application
EP 11782098 A 20111103

Priority

- DE 102011078739 A 20110706
- DE 102011078741 A 20110706
- DE 102011077880 A 20110621
- DE 102011077881 A 20110621
- DE 102011077879 A 20110621
- DE 102010043347 A 20101103
- DE 102010043346 A 20101103
- DE 102010043300 A 20101103
- DE 102010043345 A 20101103
- DE 102010043349 A 20101103
- EP 2011069316 W 20111103

Abstract (en)
[origin: WO2012059538A1] A flat textile structure comprising a reinforcing grid and at least one pile layer which is situated in a flat manner on at least one surface of the reinforcing grid, characterized in that the flat textile structure has a weight per unit area of from 40 to 140 g/m², the pile layer consists predominantly of carbon fibres, the carbon fibres in the flat textile structure have a proportion of the weight per unit area of from 60 to 97%, the reinforcing grid has a proportionate weight per unit area of from 2.5 to 12.5 g/m² and the flat textile structure is strengthened.

IPC 8 full level
B32B 5/02 (2006.01); **B29B 11/16** (2006.01); **B29C 70/08** (2006.01); **B32B 5/06** (2006.01); **B32B 7/12** (2006.01); **D04H 1/06** (2012.01); **D04H 1/4242** (2012.01); **D04H 1/4274** (2012.01); **D04H 1/4374** (2012.01); **D04H 1/46** (2012.01); **D04H 1/498** (2012.01); **D04H 1/74** (2006.01); **D04H 3/045** (2012.01); **D04H 5/02** (2012.01)

CPC (source: EP KR US)
B29B 11/16 (2013.01 - KR); **B29C 70/081** (2013.01 - EP KR US); **B32B 5/022** (2013.01 - EP KR US); **B32B 5/028** (2013.01 - EP KR US); **B32B 5/06** (2013.01 - EP KR US); **B32B 5/26** (2013.01 - KR); **B32B 7/12** (2013.01 - EP KR US); **D01G 1/04** (2013.01 - KR US); **D01G 7/00** (2013.01 - KR US); **D01G 13/00** (2013.01 - KR US); **D01G 15/00** (2013.01 - KR US); **D04H 1/06** (2013.01 - EP KR US); **D04H 1/4242** (2013.01 - EP KR US); **D04H 1/4274** (2013.01 - EP KR US); **D04H 1/4374** (2013.01 - EP KR US); **D04H 1/46** (2013.01 - EP KR US); **D04H 1/498** (2013.01 - EP KR US); **D04H 1/74** (2013.01 - EP KR US); **D04H 3/045** (2013.01 - EP KR US); **D04H 5/02** (2013.01 - EP KR US); **D04H 11/00** (2013.01 - KR US); **B29B 11/16** (2013.01 - EP US); **B32B 2250/20** (2013.01 - EP KR US); **B32B 2262/0276** (2013.01 - EP KR US); **B32B 2262/101** (2013.01 - EP KR US); **B32B 2262/106** (2013.01 - EP KR US); **B32B 2307/40** (2013.01 - EP KR US); **B32B 2307/50** (2013.01 - EP KR US); **B32B 2605/08** (2013.01 - EP KR US); **Y10T 428/23929** (2015.04 - EP US); **Y10T 428/23957** (2015.04 - EP US); **Y10T 428/23964** (2015.04 - EP US); **Y10T 428/23979** (2015.04 - EP US); **Y10T 428/23993** (2015.04 - EP US)

Citation (search report)
See references of WO 2012059540A1

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

DOCDB simple family (publication)
WO 2012059538 A1 20120510; BR 112012031770 A2 20170221; BR 112012031770 A8 20180102; CA 2802296 A1 20120510; CA 2802296 C 20150324; CA 2802301 A1 20120510; CA 2802301 C 20160426; CA 2802315 A1 20120510; CA 2802315 C 20150106; CN 103025494 A 20130403; CN 103025940 A 20130403; CN 103025940 B 20160309; CN 103025942 A 20130403; CN 103025942 B 20161005; EP 2635417 A1 20130911; EP 2635417 B1 20150902; EP 2635732 A1 20130911; EP 2635732 B1 20150513; EP 2635733 A1 20130911; ES 2544991 T3 20150907; ES 2554928 T3 20151228; HK 1181433 A1 20131108; JP 2013534278 A 20130902; JP 2013535588 A 20130912; JP 2013540902 A 20131107; JP 5718462 B2 20150513; JP 5728577 B2 20150603; JP 5745052 B2 20150708; KR 101494507 B1 20150217; KR 101497788 B1 20150302; KR 101577861 B1 20151215; KR 20130042504 A 20130426; KR 20130042506 A 20130426; KR 20130054968 A 20130527; MX 2012014598 A 20130207; MX 2012014612 A 20130207; MX 2012014614 A 20130207; MX 336749 B 20160129; PL 2635417 T3 20160429; PL 2635732 T3 20151030; PT 2635417 E 20151222; US 2013209724 A1 20130815; US 2013209725 A1 20130815; US 2013287991 A1 20131031; US 9551098 B2 20170124; WO 2012059539 A1 20120510; WO 2012059540 A1 20120510

DOCDB simple family (application)
EP 2011069313 W 20111103; BR 112012031770 A 20111103; CA 2802296 A 20111103; CA 2802301 A 20111103; CA 2802315 A 20111103; CN 201180032788 A 20111103; CN 201180032963 A 20111103; CN 201180032975 A 20111103; EP 11782096 A 20111103; EP 11782097 A 20111103; EP 11782098 A 20111103; EP 2011069315 W 20111103; EP 2011069316 W 20111103; ES 11782096 T 20111103; ES 11782097 T 20111103; HK 13108771 A 20130726; JP 2013521169 A 20111103; JP 2013522272 A 20111103; JP 2013523646 A 20111103; KR 20127034277 A 20111103; KR 20127034299 A 20111103; KR 20127034314 A 20111103; MX 2012014598 A 20111103; MX 2012014612 A 20111103; MX 2012014614 A 20111103; PL 11782096 T 20111103; PL 11782097 T 20111103; PT 11782097 T 20111103; US 201113704104 A 20111103; US 201113704114 A 20111103; US 201113704121 A 20111103