

Title (en)
COMPOSITE REINFORCEMENT

Title (de)
VERBUNDSTOFFVERSTÄRKUNG

Title (fr)
RENFORT COMPOSITE

Publication
EP 2601058 A1 20130612 (FR)

Application
EP 11727975 A 20110623

Priority
• FR 1056465 A 20100805
• EP 2011060543 W 20110623

Abstract (en)
[origin: WO2012016757A1] Self-adherent composite reinforcement (R-2) adhering, by curing, to a diene rubber matrix, which can be used as reinforcing element for a tyre, comprising: one or more reinforcing thread(s) (20), for example a carbon steel cord; a first layer (21) of a thermoplastic polymer, the glass transition temperature of which is positive, for example a nylon-6,6 polyamide, covering, individually, said thread, each thread, or collectively several threads; and a second layer (22) comprising a functionalized diene elastomer bearing functional groups chosen from epoxide, carboxyl and acid anhydride or ester groups, for example an epoxidized natural rubber, covering the first layer (21). Process for manufacturing such a composite reinforcement; and rubber article or semi-finished product, especially a tyre, incorporating such a composite reinforcement.

IPC 8 full level
B29C 70/16 (2006.01); **B32B 15/08** (2006.01); **B60C 9/00** (2006.01); **B60C 9/18** (2006.01); **B60C 9/20** (2006.01); **D07B 1/06** (2006.01); **D07B 1/16** (2006.01)

CPC (source: EP US)
B29B 15/122 (2013.01 - EP US); **B29B 15/14** (2013.01 - EP US); **B60C 9/0007** (2013.01 - EP US); **C08K 3/10** (2013.01 - US); **D07B 1/0633** (2013.01 - US); **D07B 1/0666** (2013.01 - EP US); **B29K 2021/00** (2013.01 - EP US); **B29K 2063/00** (2013.01 - EP US); **B29K 2077/00** (2013.01 - EP US); **D07B 2201/2012** (2013.01 - EP US); **D07B 2201/2013** (2013.01 - EP US); **D07B 2201/2044** (2013.01 - EP US); **D07B 2201/2045** (2013.01 - EP US); **D07B 2205/2039** (2013.01 - EP US); **D07B 2205/2046** (2013.01 - EP US); **D07B 2205/2078** (2013.01 - EP US); **D07B 2205/2082** (2013.01 - EP US); **D07B 2501/2046** (2013.01 - EP US); **Y10T 428/2933** (2015.01 - EP US); **Y10T 428/2938** (2015.01 - EP US); **Y10T 428/2947** (2015.01 - EP US); **Y10T 428/298** (2015.01 - EP US)

Citation (search report)
See references of WO 2012016757A1

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