

Title (en)
METHOD FOR THE PRODUCTION OF RESIN PREPREGS WITH LIQUID REINFORCER FOR NON-WOVEN OR TEXTILE MATERIAL AND COMPONENTS MADE FROM SAID RESIN PREPREGS

Title (de)
VERFAHREN ZUR HERSTELLUNG VON HARZMATTEN MIT FLIESSF HIGER G ELEGE- ODER TEXTILVERST RKUNG SOWIE VON BAUTEILEN AUS DIESEN HARZMATTEN

Title (fr)
PROCEDE DE FABRICATION DE MATS IMPREGNES DE RESINE A RENFORT TEXTILE OU PAR NON-TISSES ET COMPOSANTS PRODUITS A PARTIR DE CES MATS IMPREGNES DE RESINE

Publication
EP 1490208 A1 20041229 (DE)

Application
EP 03718694 A 20030317

Priority
• DE 10212414 A 20020321
• DE 10309806 A 20030305
• EP 0302774 W 20030317

Abstract (en)
[origin: WO03080319A1] In conventional methods for the production of components from resin prepregs made from fibre-reinforced plastics and sheet moulding compounds (SMCs), individual strips of varying lengths are cut from one or several rolls of semi-finished material. According to the form and size of the component the strips are laid adjacent to each other. A laminated pre-form is then produced by superimposing the strip sections of varying lengths with differing orientations for the individual layers in relation to the expected loadings, then laid in a press and moulded to give a component by flow moulding. According to the invention, the production of components made from SMC may be simplified and considerable styrol vaporisation on using unsaturated polyester resins may be avoided, whereby the material reinforcement for the resin prepreg comprises at least one layer of crossed fibres, which can also be a textile structure. The alignment of said fibres, the fibre orientation, is determined by the loading generated by the forces acting on the component.

IPC 1-7
B29C 70/08; **B29C 70/46**; **B29C 70/50**; **B32B 5/28**

IPC 8 full level
C08J 5/24 (2006.01); **B29C 43/30** (2006.01); **B29C 70/08** (2006.01); **B29C 70/46** (2006.01); **B29C 70/50** (2006.01); **B32B 5/08** (2006.01); **B32B 5/28** (2006.01); **B29K 105/10** (2006.01); **B29L 9/00** (2006.01)

CPC (source: EP US)
B29C 70/083 (2013.01 - EP US); **B29C 70/46** (2013.01 - EP US); **B29C 70/502** (2013.01 - EP US); **B32B 5/08** (2013.01 - EP US); **B32B 5/28** (2013.01 - EP US); **Y10T 442/20** (2015.04 - EP US); **Y10T 442/2926** (2015.04 - EP US); **Y10T 442/60** (2015.04 - EP US)

Citation (search report)
See references of WO 03080319A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 03080319 A1 20031002; AU 2003222769 A1 20031008; CA 2479815 A1 20031002; EP 1490208 A1 20041229; IL 164075 A0 20051218; JP 2005527659 A 20050915; NO 20044320 L 20041012; PL 372213 A1 20050711; US 2005186868 A1 20050825

DOCDB simple family (application)
EP 0302774 W 20030317; AU 2003222769 A 20030317; CA 2479815 A 20030317; EP 03718694 A 20030317; IL 16407503 A 20030317; JP 2003578125 A 20030317; NO 20044320 A 20041012; PL 37221303 A 20030317; US 50740304 A 20041209