

Title (en)
NEEDED GLASS MAT

Title (de)
VERNADELTE GLASMATTE

Title (fr)
MAT DE VERRE AIGUILLETE

Publication
EP 1689924 A1 20060816 (FR)

Application
EP 04805738 A 20041007

Priority
• FR 2004050495 W 20041007
• FR 0313977 A 20031128

Abstract (en)
[origin: WO2005054559A1] The invention relates to a method of preparing a needled glass mat. The inventive method comprises the following steps consisting in: a) depositing or projecting fibres onto a conveyor in order to form a blanket of said fibres, which is driven by the conveyor; b) and needling using barbed needles which pass through the blanket and move in the direction of said blanket at essentially the same speed of same while passing therethrough, with a punch density varying between 1 and 25/cm<2>. The invention is quick and effective and the mat produced can be easily deformed by hand in order to be placed in a resin-injected composite production mould (RTM). The inventive mat can also be incorporated in a sheet moulding compound (SMC) and pressure moulded.

IPC 8 full level
B29C 70/24 (2006.01); **B29C 70/48** (2006.01); **D04H 1/4218** (2012.01); **D04H 1/46** (2012.01); **D04H 1/488** (2012.01); **D04H 3/004** (2012.01); **D04H 3/105** (2012.01); **D04H 3/12** (2006.01); **D04H 13/00** (2006.01)

CPC (source: EP US)
B29C 70/24 (2013.01 - EP US); **D04H 1/4218** (2013.01 - EP US); **D04H 1/46** (2013.01 - EP US); **D04H 1/488** (2013.01 - EP US); **D04H 3/004** (2013.01 - EP US); **D04H 3/105** (2013.01 - EP US); **D04H 3/12** (2013.01 - EP US); **D04H 18/02** (2013.01 - EP US)

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 PL PT RO SE SI SK TR

DOCDB simple family (publication)
FR 2862987 A1 20050603; **FR 2862987 B1 20060922**; AU 2004295511 A1 20050616; BR PI0416955 A 20070213; CA 2547340 A1 20050616; CN 1886542 A 20061227; EA 007699 B1 20061229; EA 200601057 A1 20061027; EP 1689924 A1 20060816; JP 2007512449 A 20070517; JP 4974221 B2 20120711; US 2007101561 A1 20070510; US 7509714 B2 20090331; WO 2005054559 A1 20050616; ZA 200604127 B 20070328

DOCDB simple family (application)
FR 0313977 A 20031128; AU 2004295511 A 20041007; BR PI0416955 A 20041007; CA 2547340 A 20041007; CN 200480035338 A 20041007; EA 200601057 A 20041007; EP 04805738 A 20041007; FR 2004050495 W 20041007; JP 2006540550 A 20041007; US 58093604 A 20041007; ZA 200604127 A 20060523