

Title (en)  
Method and device for creating a UD layer

Title (de)  
Verfahren und Vorrichtung zum Erzeugen einer UD-Lage

Title (fr)  
Dispositif et procédé de production d'une position UD

Publication  
**EP 2327822 A1 20110601 (DE)**

Application  
**EP 10008360 A 20100811**

Priority  
DE 102009056197 A 20091127

Abstract (en)  
The method for producing uni-directional layer (2) with a predetermined layer width from a predetermined number of filament strands (5), comprises spreading the filament strands transverse to longitudinal direction of the uni-directional layer to tape and then arranging to each other. The tape spreads on a width, which is greater than a division width that arises itself from the layer width divided through the number of the filament strands. The tapes fold together after spreading transverse to the longitudinal direction on a tape width, which corresponds to the division width. The method for producing uni-directional layer (2) with a predetermined layer width from a predetermined number of filament strands (5), comprises spreading the filament strands transverse to longitudinal direction of the uni-directional layer to tape and then arranging to each other. The tape spreads on a width, which is greater than a division width that arises itself from the layer width divided through the number of the filament strands. The tapes fold together after spreading transverse to the longitudinal direction on a tape width, which corresponds to the division width. The tape width is smaller than the division width. The tape is arranged transverse to longitudinal direction. The tape spreads and pushes together on tape width, which is greater than the division width. The filament strand spreads in two different plains. An independent claim is included for a device for producing uni-directional layer.

Abstract (de)  
Es wird ein Verfahren zum Erzeugen einer UD-Lage (2) aus einer vorbestimmten Lagenbreite aus einer vorbestimmten Anzahl von Filamentsträngen (5) angegeben, bei dem man die Filamentstränge (5) quer zur Längsrichtung der UD-Lage (2) zu Bändchen (16, 17) ausbreitet und nebeneinander anordnet. Man möchte eine UD-Lage (2) mit möglichst gleichförmiger Dicke erzeugen. Hierzu ist vorgesehen, dass man die Bändchen (16, 17) auf eine Breite ausbreitet, die größer ist als eine Teilungsbreite, die sich aus der Lagenbreite dividiert durch die Anzahl der Filamentstränge (5) ergibt.

IPC 8 full level  
**D04H 3/04** (2012.01)

CPC (source: EP US)  
**D02J 1/18** (2013.01 - EP US); **D04H 3/002** (2013.01 - EP US); **D04H 3/04** (2013.01 - EP US)

Citation (applicant)  
• EP 0972102 B1 20031112 - DECONSTRUCTION DE MOTEURS D AV [FR], et al  
• DE 102005008705 B3 20060921 - MAYER MALIMO TEXTILMASCHF [DE]  
• DE 102005052660 B3 20070426 - MAYER MALIMO TEXTILMASCHF [DE]  
• DE 19707125 A1 19980610 - EPO FASER TECHNIK GMBH [DE]

Citation (search report)  
• [X] WO 9955943 A1 19991104 - OWENS CORNING FIBERGLASS CORP [US], et al  
• [XP] EP 2151517 A1 20100210 - LIBA MASCHF [DE]  
• [X] FR 2826672 A1 20030103 - SNECMA MOTEURS [FR]

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 SE SI SK SM TR

Designated extension state (EPC)  
BA ME RS

DOCDB simple family (publication)  
**EP 2327822 A1 20110601**; **EP 2327822 B1 20130515**; CN 102080304 A 20110601; CN 102080304 B 20130206;  
DE 102009056197 A1 20110601; ES 2410580 T3 20130702; JP 2011111709 A 20110609; JP 5498352 B2 20140521;  
US 2011146040 A1 20110623; US 8567024 B2 20131029

DOCDB simple family (application)  
**EP 10008360 A 20100811**; CN 201010564100 A 20101126; DE 102009056197 A 20091127; ES 10008360 T 20100811;  
JP 2010247184 A 20101104; US 95162310 A 20101122