

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

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

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

Publication  
**EP 2327648 A3 20120718 (DE)**

Application  
**EP 10008359 A 20100811**

Priority  
DE 102009056189 A 20091127

Abstract (en)  
[origin: EP2327648A2] The device for producing uni-directional layer (7) from a predetermination number of filament strands (10), comprises a dispenser arrangement (8) for issuing the filament strands, a storage system (16) for intermediate storage of the filament strands, a spreader arrangement, and an output. The storage system comprises a storage for each filament strands. The storage is relatively arranged to each other adjacent to movable filament strands. The storage system comprises a fault sensor. A supply work is arranged between the dispenser arrangement and the storage system. The device for producing uni-directional layer (7) from a predetermination number of filament strands (10), comprises a dispenser arrangement (8) for issuing the filament strands, a storage system (16) for intermediate storage of the filament strands, a spreader arrangement, and an output. The storage system comprises a storage for each filament strands. The storage is relatively arranged to each other adjacent to movable filament strands. The storage system comprises a fault sensor. A supply work is arranged between the dispenser arrangement and the storage system. A filament strand-drive arrangement is arranged in running direction behind the spreader arrangement, which comprises a spreading device, which is arranged at different positions, where the adjacent filament strands run through different spreading device. The spreader arrangement is arranged downstream to a calibration device, which forms a breadth reduction device for each filament strands. The calibration device comprises a bandwidth variation device. A dividing device (24) is arranged before the spreader arrangement, which comprises a guide body with a groove for each filament strands. The filament strand-drive device comprises a nip in which the spread filament strands are impinged with a pressure. An independent claim is included for a method for producing uni-directional layer.

IPC 8 full level  
**D02J 1/18** (2006.01); **B65H 59/36** (2006.01); **D04H 3/04** (2012.01)

CPC (source: EP US)  
**B65H 59/36** (2013.01 - EP US); **D02J 1/18** (2013.01 - EP US); **D04H 3/04** (2013.01 - EP US); **B65H 2701/314** (2013.01 - EP US); **B65H 2701/38** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)  
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Designated extension state (EPC)  
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**EP 2327648 A2 20110601**; **EP 2327648 A3 20120718**; **EP 2327648 B1 20130925**; CN 102080305 A 20110601; CN 102080305 B 20140212; DE 102009056189 A1 20110601; JP 2011111329 A 20110609; JP 5343059 B2 20131113; US 2011154630 A1 20110630; US 8578575 B2 20131112

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