

Title (en)  
Method for homogenising the puncture pattern in a needled nonwoven fabric

Title (de)  
Verfahren zur Homogenisierung des Einstichbildes bei einem vernadelten Vlies

Title (fr)  
Procédé d'homogénéisation de l'image de piqûre dans une étoffe aiguilletée

Publication  
**EP 2918719 B1 20160914 (DE)**

Application  
**EP 14159491 A 20140313**

Priority  
EP 14159491 A 20140313

Abstract (en)  
[origin: CN104911857A] A method for homogenizing the stitching pattern in a needled fleece (6) requires a detector (22) which is arranged between a first needling device (2) and a second needling device (4) and detects areas in the fleece (6) where stitches are absent. Then the fleece (6) needled by the first needling device (2) is also needled in the second needling device (4), wherein at least one operating parameter or at least one structure parameter of the second needling device (4) is adapted specifically on the basis of the result of the detection of the absent-stitch areas, so that, during the further needling of the fleece (6) in the second needle machine (4), the absent-stitch areas are filled in a targeted manner.

IPC 8 full level  
**D04H 18/02** (2012.01)

CPC (source: CN EP US)  
**D04H 1/46** (2013.01 - US); **D04H 18/02** (2013.01 - CN EP US)

Cited by  
DE102019100916A1; DE102019100922A1; DE102019100919A1; DE102019118163A1; EP3165659A1; EP3165660A1; US9994983B2; US10100448B2; WO2021001439A1; WO2020148145A1; WO2020148150A1; WO2020148147A1

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DOCDB simple family (publication)  
**EP 2918719 A1 20150916; EP 2918719 B1 20160914**; CN 104911857 A 20150916; CN 104911857 B 20170606; CN 105401375 A 20160316; CN 105401375 B 20180925; EP 3000923 A1 20160330; US 2015259836 A1 20150917; US 2016069006 A1 20160310; US 9260806 B2 20160216; US 9567698 B2 20170214

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**EP 14159491 A 20140313**; CN 201510109430 A 20150312; CN 201510796410 A 20150312; EP 15193801 A 20140313; US 201514640089 A 20150306; US 201514945705 A 20151119