

Title (en)
NONWOVEN FABRIC, FELT AND MANUFACTURING METHOD THEREOF

Title (de)
VLIESSTOFF, FILZ UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
TISSU NON TISSÉ, FEUTRE ET PROCÉDÉ POUR LEUR FABRICATION

Publication
EP 2287374 A4 20121024 (EN)

Application
EP 09762305 A 20090225

Priority
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Abstract (en)
[origin: EP2287374A1] A nonwoven fabric which contains pitch-based carbon fibers having a high elongation and a high elastic modulus which are not attained in the prior art and is obtained by improving the tensile elongation which was defect of carbon fibers derived from mesophase pitch, a felt obtained from the nonwoven fabric, and production processes therefor. The nonwoven fabric contains pitch-based carbon fibers, wherein the pitch-based carbon fibers have (i) an average fiber diameter (D1) measured by an optical microscope of more than 2 µm and 20 µm or less, (ii) a percentage of the degree of fiber diameter distribution (S1) to average fiber diameter (D1) measured by an optical microscope of 3 to 20 %, (iii) a tensile elastic modulus of 80 to 300 GPa and (iv) a tensile elongation of 1.4 to 2.5 %.

IPC 8 full level
D01F 9/145 (2006.01); **D04H 1/42** (2012.01); **D04H 1/4242** (2012.01); **D04H 1/488** (2012.01)

CPC (source: EP KR)
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D04H 1/488 (2013.01 - EP KR); **D04H 1/724** (2013.01 - KR)

Citation (search report)
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• [I] US 5238672 A 19930824 - SUMNER MICHAEL B [US], et al
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