

Title (en)  
PAN-BASED CARBON FIBER AND PRODUCTION METHOD THEREFOR

Title (de)  
PAN-BASIERTE KOHLEFASER UND PRODUKTIONSVERFAHREN DAFÜR

Title (fr)  
FIBRE DE CARBONE À BASE DE PAN ET PROCÉDÉ POUR SA PRODUCTION

Publication  
**EP 3093380 A4 20170816 (EN)**

Application  
**EP 14878023 A 20141226**

Priority  
• JP 2014001505 A 20140108  
• JP 2014084468 W 20141226

Abstract (en)  
[origin: EP3093380A1] Provided are: a PAN-based carbon fiber comprising three or more phases different in crystal size, preferably having a sheath-core structure with three or more layers; and a production method therefor. By configuring a carbon fiber from three or more phases different in crystal size, or by a production method wherein a specified polymer for spinning is spun, stabilization is performed under specified conditions and thereafter carbonization is performed, time for the stabilization can be greatly shortened and productivity can be improved, and a PAN-based carbon fiber capable of exhibiting a high degree of elongation while maintaining a sufficiently high strength can be obtained.

IPC 8 full level  
**D01F 9/22** (2006.01); **D01D 5/06** (2006.01); **D01D 5/34** (2006.01); **D01F 8/00** (2006.01)

CPC (source: EP KR US)  
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Citation (search report)  
• [XAY] US 2001031238 A1 20011018 - OMARU ATSUO [JP], et al  
• [Y] JP 2009149712 A 20090709 - TORAY INDUSTRIES  
• [A] GB 1375136 A 19741127  
• See references of WO 2015105019A1

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 RS SE SI SK SM TR

DOCDB simple family (publication)  
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**EP 14878023 A 20141226**; CN 201480072235 A 20141226; JP 2014084468 W 20141226; JP 2015509246 A 20141226; KR 20167012813 A 20141226; US 201415110336 A 20141226