

Title (en)

METHOD FOR MAKING CARBON FIBRE PREFORMS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON VORFORMEN AUS KOHLENSTOFFFASERN

Title (fr)

PROCEDE DE FABRICATION DE PREFORMES EN FIBRES DE CARBONE

Publication

EP 1025295 A1 20000809 (FR)

Application

EP 98952798 A 19981027

Priority

- FR 9802298 W 19981027
- FR 9713424 A 19971027

Abstract (en)

[origin: FR2770233A1] Carbon fiber preforms are produced from a thread or yarn of continuous intermediate carbonized carbon precursor fibers by stretching/breaking to obtain discontinuous fibers, slightly twisting the thread or yarn, forming the preform and then completing the carbonization. Carbon fiber preforms are produced from a thread or yarn of continuous fibers made from carbon precursor fibers by intermediate carbonization to a carbon content of 70-90% and a tensile breaking strength of \-3000 MPa such that subsequent complete carbonization can be carried out without tensioning. The process comprises subjecting the thread or yarn to a stretching/breaking operation to obtain a thread or yarn of discontinuous fibers, slightly twisting the thread or yarn, forming the preform from the thread or yarn and subjecting the preform to thermal treatment to complete the transformation of the discontinuous fibers into carbon fibers.

IPC 1-7

D01F 9/08; **C04B 35/00**

IPC 8 full level

C04B 35/80 (2006.01); **C04B 35/83** (2006.01); **D01F 9/22** (2006.01); **D01F 11/10** (2006.01); **D01F 11/14** (2006.01); **D02G 1/02** (2006.01); **D02J 1/22** (2006.01); **D02J 13/00** (2006.01); **D03D 15/00** (2006.01); **D04H 13/00** (2006.01); **F16D 69/02** (2006.01)

CPC (source: EP)

C04B 35/83 (2013.01); **D01F 9/22** (2013.01); **D01F 11/10** (2013.01); **D01F 11/14** (2013.01); **D02G 1/02** (2013.01); **D02J 1/222** (2013.01); **D02J 13/001** (2013.01); **D04H 3/002** (2013.01); **D04H 3/105** (2013.01); **D04H 13/00** (2013.01); **F16D 69/023** (2013.01)

Citation (search report)

See references of WO 9922052A1

Cited by

CN103274714A

Designated contracting state (EPC)

AT BE DE ES FR GB IT NL

DOCDB simple family (publication)

FR 2770233 A1 19990430; **FR 2770233 B1 20000114**; CA 2307137 A1 19990506; CN 1092723 C 20021016; CN 1277642 A 20001220; EP 1025295 A1 20000809; JP 2001521073 A 20011106; WO 9922052 A1 19990506

DOCDB simple family (application)

FR 9713424 A 19971027; CA 2307137 A 19981027; CN 98810543 A 19981027; EP 98952798 A 19981027; FR 9802298 W 19981027; JP 2000518137 A 19981027