

Title (en)  
Pitch based carbon fibers.

Title (de)  
Auf Peck basierte Kohlenstoffasern.

Title (fr)  
Fibres de carbone à base de brai.

Publication  
**EP 0428944 A2 19910529 (EN)**

Application  
**EP 90121410 A 19901108**

Priority  
JP 29922689 A 19891117

Abstract (en)  
The present invention resides in carbon fibers essentially consisting of liquid crystal pitch based continuous monofilaments having an average filament diameter of 20  $\mu$  m or greater. The carbon fibers of the present invention can have modulus of elasticity of 80,000 Kgf/mm<sup>2</sup> or greater and tensile strength of 200 Kgf/mm<sup>2</sup> or greater. The carbon fibers of the present invention can be used as a multifilament fiber consisting of plural monofilaments as in case of conventional carbon fibers but it is particularly preferable that a number of constituting monofilaments is one.

IPC 1-7  
**D01F 9/145**

IPC 8 full level  
**D01F 9/14** (2006.01); **D01F 9/145** (2006.01)

CPC (source: EP)  
**D01F 9/145** (2013.01)

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 0428944 A2 19910529; EP 0428944 A3 19910828; EP 0428944 B1 19960214**; DE 69025376 D1 19960328; DE 69025376 T2 19960620; JP 2711918 B2 19980210; JP H03161523 A 19910711

DOCDB simple family (application)  
**EP 90121410 A 19901108**; DE 69025376 T 19901108; JP 29922689 A 19891117