

Title (en)

Process for producing pitch-based carbon fibres superior in compressive physical properties.

Title (de)

Verfahren zur Herstellung von kohlenstoffhaltigen Fasern mit verbesserten physikalischen Druckeigenschaften.

Title (fr)

Procédé de fabrication de fibres de carbone à base de brai avec des propriétés physiques de compressivité supérieures.

Publication

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Application

EP 89306590 A 19890629

Priority

JP 16068388 A 19880630

Abstract (en)

A process for producing a pitch-based carbon fiber comprises hydrogenating a carbonaceous pitch in the presence of a hydrogenation catalyst to add to the pitch two moles or more hydrogen per pitch molecule; heat-treating the hydrogenated pitch at atmospheric pressure or under reduced pressure to obtain an optically anisotropic pitch; collecting from said optically anisotropic pitch a component which is insoluble in an organic solvent having a solubility parameter at 25 DEG C of 7.4 to 9.0 and soluble in an organic solvent having a solubility parameter at 25 DEG C of 9.2 to 11.0 to obtain a spinning pitch having an optically anisotropic phase content of 5% to 40% by volume; spinning said spinning pitch; and thereafter making the resulting pitch fiber infusible and then carbonizing the thus-infusibilized pitch fiber.

IPC 1-7

C10C 3/00; D01F 9/12

IPC 8 full level

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CPC (source: EP KR)

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