

Title (en)

A method for producing a precursor pitch for carbon fiber.

Title (de)

Verfahren zur Herstellung eines Vorläuferpechs für Kohlenstoffaser.

Title (fr)

Méthode pour la production d'un brai précurseur pour une fibre de carbone.

Publication

EP 0172955 A1 19860305 (EN)

Application

EP 84305857 A 19840828

Priority

EP 84305857 A 19840828

Abstract (en)

Precursor pitch to be used for formation of carbon fiber is produced by heating a coal tar soft or middle pitch at a temperature of 350-500 DEG C at a first stage to form mesophase, extracting the thus treated pitch with a solvent, separating and removing the solvent insoluble portion including mesophase to obtain a pitch containing no free carbon and further at the second stage heat-treating the pitch containing no free carbon in an inert gas atmosphere under atmospheric pressure or a reduced pressure under the following condition $600-1.2 T \leq \theta \leq 8,800-3.6 T$ (provided that $350 \leq T \leq 500$) wherein T (DEG C) is the temperature of the heat treatment and theta (min) is the time for which said temperature is held, to form bulk mesophase pitch containing 20-60% by weight of quinoline insoluble portion.

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

D01F 9/15 (2013.01); **D01F 9/155** (2013.01)

Citation (search report)

- [X] EP 0089840 A1 19830928 - TOA NENRYO KOGYO KK [JP]
- [X] DERWENT JAPANESE PATENTS REPORT, Derwent Publications, Section Chemical, vol. 6, no. 239 (C-137)[1117], 26th November 1982; & JP - A - 57 139 179 (KAWATETSU KAGAKU K.K.)

Cited by

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EP 0172955 A1 19860305; EP 0172955 B1 19890208; DE 3476685 D1 19890316

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