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(11) Publication number:

0 383 339 A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: **90103030.4**

(51) Int. Cl.⁵: **D01D 4/02, D01F 9/145**

(22) Date of filing: **16.02.90**

(30) Priority: **16.02.89 US 311511**

(43) Date of publication of application:
22.08.90 Bulletin 90/34

(84) Designated Contracting States:
DE ES FR GB IT NL

(88) Date of deferred publication of the search report:
28.08.91 Bulletin 91/35

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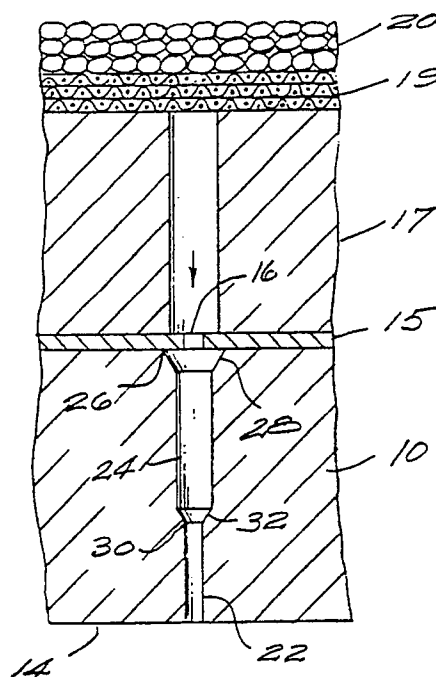
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(54) **Improved pitch carbon fiber spinning process.**

(57) Use of a ribbon shaped flow configuration at the entrance (15) to a round spinneret (10) used for spinning carbon fibers from mesophase pitch promotes the formation of random microstructure and prevents formation of axial cracking in the fibers.

Fig. 1



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EUROPEAN SEARCH REPORT

Application Number

EP 90 10 3030

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Y	US-A-4 859 381 (HIROAKI MORITA et al.) * Claims * & JP-A-62 170 527 (OSAKA GAS CO., LTD) (27-07-1987) -- --	1-10,13, 14	D 01 D 4/02 D 01 F 9/145
D,Y	US-A-4 576 811 (DENNIS M. RIGGS et al.) * Figure 2; claims * -- --	1-10,13, 14	
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A	US-A-4 859 382 (KAZUTOSHI HARAGUCHI et al.) * Claims * & JP-A-62 170 526 (OSAKA GAS CO., LTD) (27-07-1987) -- --	1-10,13, 14	
A	FR-A-2 554 834 (KASHIMA OIL CO., LTD) * Claims * -- -- --	1-10,13, 14	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			D 01 D D 01 F
The present search report has been drawn up for all claims			
Place of search		Date of completion of search	Examiner
The Hague		22 May 91	TARRIDA TORRELL J.B.
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons &: member of the same patent family, corresponding document			