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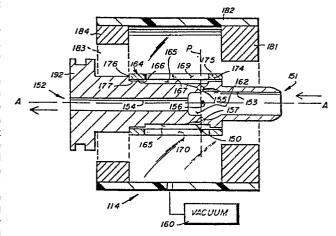
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## Vacuum spinning.

5 Vacuum spun yarn may be produced that have strength and properties approaching that of ring spun yarn, and at speeds greatly in excess of production speeds for ring spun yarn. An elongated hollow shaft (15, 150) has a throughextending passageway (153, 154) from a first end to a second end thereof, with a portion of the shaft adjacent the first end perforated (16, 155-157). The perforation slant in the direction of the second end, and a spherical vacuum reservoir (162) is formed in the shaft. A diffuser in the form of a collar (164) having elongated slots (169, 170) corresponding to the perforations surrounds the shaft, surrounds the shaft. The shaft is rotated about an axis at a constant high speed so that free ends of fibers passing through the shaft will draw toward the shaft perforations and be caused to rotate with the shaft as the fibers move linearly along the axis of rotation. A core filament yarn (c), such as a full stretched textured yarn, may be fed into the shaft with the nipped sliver or roving fibers. Yarns may be produced having a spun-like appearance, a loop or Boucle effect, or a yarn having a core with real twists with fibers wrapped about the core to provide surface effects.



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## **EUROPEAN SEARCH REPORT**

Application number

EP 85 30 2322

ategory		th indication, where appropriate, vant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
A	US-A-4 322 944 * Figures 1,4,1	(SRAITR et al.)	1	D 01 H 1/00 D 02 G 1/16 D 02 G 3/38
A	EP-A-O 099 726 JIDOSHOKKI SEIS * Figures; Clai	SAKUSHO)	1,2,4	
A	US-A-3 706 192 al.) * Figure 1; cla		4	
E		(MORRISON, E.F.) 13-14; figures *	1,7-9, 12-13	
			.	TECHNICAL FIELDS SEARCHED (int. Cl.4)
				D 01 H D 02 G
	The present search report has to	peen drawn up for all claims  Date of completion of the search	1, 1	Examiner
	THE HAGUE	11-05-1987	RAYE	OULD B.D.J.
Y: pari doc	CATEGORY OF CITED DOCU ticularly relevant if taken alone ticularly relevant if combined w ument of the same category noological background -written disclosure	E: earlier par after the f ith another D: documen	tent document, t	ring the invention but published on, or lication easons