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54 **A method of preparing a polyamidic fiber suitable for staple spinning, and fiber obtained thereby.**

57 The invention is concerned with a method of preparing a suitable fiber for staple processing and having good moisture absorption characteristics. The method consists of preparing a copolymer of Nylon 6 and poly(4,7-dioxydecamethylene) adipamide containing 10 to 40% by weight of the latter component, spinning said copolymer by melting at a temperature in the 246 to 300°C range and extruding through a die having capillaries with larger diameter dimensions than those used in the standard polyamide staple spinning, cooling the filaments by blowing air, hot drawing the filaments in air at a draft ratio in the 2.2 to 3.6 range, effecting a heat setting operation under tension, at least the final step of the heat setting operation being effected at a temperature close to the softening temperature of said filaments, and subjecting the resulting filaments to a mainly antistatic type of finish. The invention also relates to the polyamidic fiber thus obtained.

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EUROPEAN SEARCH REPORT

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EP 83 11 2917

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. ³)
Y	US-A-4 168 602 (R.M. THOMPSON) * Claims; column 11, lines 13-47 *	1	D 01 F 6/80 D 01 D 5/08 D 01 D 5/16
Y	--- US-A-3 459 845 (H.H. HEBELER) * Claims; column 2, lines 43-49, 64-66 *	1	
Y	--- US-A-3 527 860 (M.T. WATSON et al.) * Claims; column 3, lines 29-39 *	1	
Y	--- US-A-3 436 450 (H. SPECKER et al.) * Claims; column 3, lines 41-44 *	1	

			TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
			D 01 F D 01 D
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 24-06-1985	Examiner VAN GOETHEM G.A.J.M.
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	

