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(54) Title: HEAT-SETTING METHOD

(57) Abstract: The invention provides a method of treating fabrics containing polyetherester fibers so that the fabrics retain their basis weight, power, and stretch without edge curl. Fabrics containing polyetherester fibers are heat-set after dyeing, preferably in a temperature range of 160-180 °C (dry) or 115-140 °C (steam).

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 02/37281

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 D06P3/00 D06P3/52 D06C7/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 D06C D06P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 152 079 A (ASAHI CHEMICAL IND) 7 November 2001 (2001-11-07) page 3, line 29 - line 32 paragraph '0023!; claims; examples ---	1-7
X	US 3 522 642 A (AMEMIYA KUNIO ET AL) 4 August 1970 (1970-08-04) examples 2,5 ---	1,5,7
X	DATABASE WPI Section Ch, Week 198604 Derwent Publications Ltd., London, GB; Class A23, AN 1986-024989 XP002271296 & JP 60 246874 A (TOYOBO KK), 6 December 1985 (1985-12-06) abstract --- -/--	1,5,7

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE WPI Section Ch, Week 199650 Derwent Publications Ltd., London, GB; Class A23, AN 1996-503344 XP002271297 & JP 08 260367 A (UNITIKA LTD), 8 October 1996 (1996-10-08) abstract ---	1,5,7
X	DATABASE WPI Section Ch, Week 198251 Derwent Publications Ltd., London, GB; Class A35, AN 1982-10212J XP002271298 & JP 57 183480 A (ASAHI CHEM IND CO LTD), 11 November 1982 (1982-11-11) abstract ---	1,5,7
X	WO 00 29654 A (YOSHIDA YUJI ;ASAHI CHEMICAL IND (JP); TANIGUCHI YUKIHITO (JP)) 25 May 2000 (2000-05-25) the whole document	1-7
P,X	& EP 1 167 603 A (ASAHI CHEMICAL IND) 2 January 2002 (2002-01-02) page 3, line 11 - line 13 page 4, line 44 - line 49; claims; examples -----	1-7

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 02/37281

Patent document cited in search report	Publication date	Patent family member(s)	Publication date	
EP 1152079	A	07-11-2001	AU 1181500 A	05-06-2000
			EP 1152079 A1	07-11-2001
			JP 3231306 B2	19-11-2001
			CN 1326519 T	12-12-2001
			WO 0029653 A1	25-05-2000
US 3522642	A	04-08-1970	CH 503817 B	15-10-1970
			CH 1516967 A	15-10-1970
			FR 1553829 A	17-01-1969
			GB 1199588 A	22-07-1970
JP 60246874	A	06-12-1985	JP 1959203 C	10-08-1995
			JP 6084590 B	26-10-1994
JP 8260367	A	08-10-1996	NONE	
JP 57183480	A	11-11-1982	NONE	
WO 0029654	A	25-05-2000	AU 1181600 A	05-06-2000
			CN 1326520 T	12-12-2001
			EP 1167603 A1	02-01-2002
			WO 0029654 A1	25-05-2000
			JP 3195598 B2	06-08-2001