

(19)



Europäisches Patentamt

European Patent Office

Office européen des brevets



(11)

EP 0 953 673 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
07.06.2000 Bulletin 2000/23

(43) Date of publication A2:
03.11.1999 Bulletin 1999/44

(21) Application number: **99303196.2**

(22) Date of filing: **26.04.1999**

(51) Int Cl.7: **D06M 15/647**, D06M 15/657,
D06M 13/46, D06M 13/285,
D06M 15/53, D02J 13/00,
D02G 1/02

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE**
Designated Extension States:
AL LT LV MK RO SI

(30) Priority: **27.04.1998 JP 13457598**

(71) Applicant: **Takemoto Yushi Kabushiki Kaisha**
Gamagouri-shi Aichi-ken (JP)

(72) Inventors:
• **Yamamoto, Hisao**
Nukata-gun, Aichi-ken (JP)

- **Kimura, Fumihiko**
Toyohashi-shi, Aichi-ken (JP)
- **Nagaya, Masahiro**
Okazaki-shi, Aichi-ken (JP)
- **Kitagawa, Yukiko**
Gamagouri-shi, Aichi-ken (JP)

(74) Representative: **Ablewhite, Alan James**
MARKS & CLERK,
57/60 Lincoln's Inn Fields
London WC2A 3LS (GB)

(54) **Agents for and methods of processing synthetic fibers**

(57) An agent containing a polyether compound, a straight-chain polyether modified polyorganosiloxane of

a specified kind and an ionic surfactant at specified ratios are applied at a specified rate to synthetic fibers subjected to a heat treatment such as false twisting.

EP 0 953 673 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 99 30 3196

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.6)
A	EP 0 367 281 A (TORAY SILICONE CO) 9 May 1990 (1990-05-09) ---	1, 2	D06M15/647 D06M15/657 D06M13/46
D, A	US 5 061 384 A (SUZUKI AKIRA ET AL) 29 October 1991 (1991-10-29) * the whole document * ---	1, 3-6, 9-11	D06M13/285 D06M15/53 D02J13/00 D02G1/02
A	DATABASE WPI Section Ch, Week 199050 Derwent Publications Ltd., London, GB; Class A23, AN 1990-372553 XP002134908 & JP 02 269878 A (NIPPON ESTER CO LTD), 5 November 1990 (1990-11-05) * abstract * -----	1, 5, 9, 10	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			D06M D15M
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 5 April 2000	Examiner Bernardo Noriega, F
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			

EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 99 30 3196

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

05-04-2000

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0367281 A	09-05-1990	JP 2127569 A	16-05-1990
		JP 2709729 B	04-02-1998
		CA 2001792 A,C	04-05-1990
		DE 68914395 D	11-05-1994
		DE 68914395 T	18-08-1994
		KR 9613198 B	30-09-1996
		US 5036123 A	30-07-1991
US 5061384 A	29-10-1991	JP 1092475 A	11-04-1989
		JP 1693677 C	17-09-1992
		JP 3060949 B	18-09-1991
		DE 3889416 D	09-06-1994
		DE 3889416 T	25-08-1994
		EP 0313227 A	26-04-1989
		KR 9008846 B	30-11-1990
JP 2269878 A	05-11-1990	JP 2703620 B	26-01-1998