

11) Publication number:

0 432 489 A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 90121748.9

② Date of filing: 14.11.90

(5) Int. Cl.⁵: **D01F 8/14**, D01F 8/10, D21H 13/16, D21H 13/24

Priority: 15.11.89 JP 294911/89 11.09.90 JP 238994/90

- 43 Date of publication of application: 19.06.91 Bulletin 91/25
- ② Designated Contracting States:
 DE FR GB
- Date of deferred publication of the search report: 18.12.91 Bulletin 91/51
- 71 Applicant: TEIJIN LIMITED 6-7, Minamihonmachi 1-chome Chuo-ku Osaka-shi Osaka 541(JP)
- 2 Inventor: Shinoki, Takanori
 1-2, Aza Ohara, Yatou
 Kawanishi-shi, Hyogo 666-01(JP)
 Inventor: Kobayashi, Tsukasa
 2750-1-29, Minamiyoshida-cho
 Matsuyama-shi, Ehime 791(JP)
 Inventor: Yamamura, Yasuo
 1015-8, Tokumaru, Masaki-cho
 Iyo-gun, Ehime 791-31(JP)
 Inventor: Uemura, Ryuji
 1-6-14-306, Kaji-cho
 Moriguchi-shi, Osaka 570(JP)
- Representative: Hoeger, Stellrecht & Partner Uhlandstrasse 14 c
 W-7000 Stuttgart 1(DE)
- (54) Heat-adhesive composite fiber and nonwoven fabric made by using same.
- The A heat-adhesive synthetic composite fiber useful as a bonding fiber for producing a nonwoven fabric by a wet sheet-forming method, comprises (A) an ethylene-vinyl alcohol copolymer filamentary constituent and (B) a metal sulfonate group-containing copolyester filamentary constituent incorporated to the ethylene-vinyl alcohol copolymer filamentary constituent (A) to form a composite fiber; the ethylene-vinyl alcohol copolymer filamentary constituent being exposed to the outside in at least a portion of the peripheral surface of the composite fiber.

P 0 432 489 A3



EUROPEAN SEARCH REPORT

EP 90 12 1748

DOCUMENTS CONSIDERED TO BE RELEVANT					000
ategory		th Indication, where appropriate, vant passages		elevant claim	CLASSIFICATION OF THE APPLICATION (Int. CI.5)
D,&,A	DA-T- (18)Derwent Publications Ltd., London, GB; &JP-A-56026008 (KURARAY KK) 13 March 1981 * the whole document *		1-1	1	D 01 F 8/14 D 01 F 8/10 D 21 H 13/16 D 21 H 13/24
Α	DA-T- (43)Derwent Publica &JP-A-1229899 (TEIJIN Kh * the whole document *		1-1	1	
A	PATENT ABSTRACTS OF March 6, 1980 & JP-A-55 1 379 (NIPPON 6 the whole document *			1	
Α	PATENT ABSTRACTS OF (C-65)November 24, 1979 & JP-A-54 120 734 (CHISS) * the whole document *		1-1	1	
					TECHNICAL FIELDS SEARCHED (Int. CI.5)
					D 01 F
					D 21 H
			- - - -		
	The present search report has i	peen drawn up for all claims			
	Place of search	Date of completion of se	arch		Examiner
	The Hague	11 October 91		Т	ARRIDA TORRELL J.B.
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same catagory A: technological background			E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons		
0: P:	recriministical background non-written disclosure intermediate document theory or principle underlying the in	vention			patent family, corresponding