

12

# **EUROPEAN PATENT APPLICATION**

21 Application number: **88100844.5**

51 Int. Cl.4: **D01F 8/04 , D01F 1/09**

22 Date of filing: **21.01.88**

30 Priority: **30.01.87 JP 20860/87**  
**23.03.87 JP 69454/87**  
**02.12.87 JP 306233/87**

43 Date of publication of application:  
**03.08.88 Bulletin 88/31**

84 Designated Contracting States:  
**DE FR GB IT**

88 Date of deferred publication of the search report:  
**21.02.90 Bulletin 90/08**

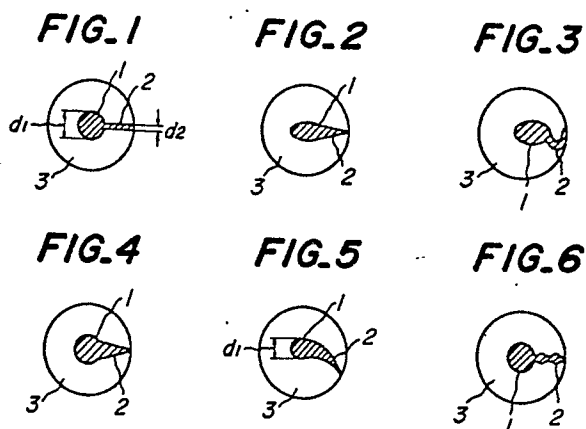
71 Applicant: **KANEBO, LTD.**  
**17-4 Sumida 5-chome Sumida-ku**  
**Tokyo 131(JP)**

72 Inventor: **Ogawa, Yasuhiro**  
**7-34, Tarumi-cho 3-chome**  
**Suita City Osaka-fu(JP)**  
Inventor: **Osagawa, Takao**  
**6-7-105, Kanebo-cho**  
**Hofu City Yamaguchi Pref.(JP)**  
Inventor: **Tsutsumi, Hidenobu**  
**4-1, Kanebo-cho**  
**Hofu City Yamaguchi Pref.(JP)**

74 Representative: **Hansen, Bernd, Dr.rer.nat. et al**  
**Hoffmann, Eitle & Partner Patentanwälte**  
**Arabellastrasse 4 Postfach 81 04 20**  
**D-8000 München 81(DE)**

54 **Conductive composite filaments and fibrous articles containing the same.**

57 A conductive composite filament comprising a non-conductive sheath component of a fiber-forming thermoplastic polymer and a conductive component consisting of a thick conductive core and a thin conductive path, which is lapped in said sheath and composed of a mixture of a thermoplastic polymer with inorganic conductive particles. The conductive path extends laterally from the periphery of the core, transversely through the sheath, up to or close to the outer circumference of the sheath and longitudinally along the entire length of the core, exposing its tip lengthwise continuously or intermittently and not more than 1.5  $\mu\text{m}$  in width on the surface of the filament.





DOCUMENTS CONSIDERED TO BE RELEVANT			EP 88100844.5
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
X	<u>GB - A - 2 077 182</u> (KANEBO SYNTHETIC FIBERS LTD., KANEBO LTD.) * Claims; fig.; page 9, lines 28-34; page 11, lines 39-41 *	1-16	D 01 F 8/04 D 01 F 1/09
X	<u>GB - A - 2 001 901</u> (KANEBO KABUSHIKI KAISHA) * Claims; fig.; page 2, lines 35-55; page 3, lines 41-49 *	1-16	
			TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
			D 01 F D 01 D
The present search report has been drawn up for all claims			
Place of search VIENNA		Date of completion of the search 14-12-1989	Examiner WEIGERSTORFER
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	