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08.09.93 Bulletin 93/36(71) Applicant: **W.L. GORE & ASSOCIATES, INC.**
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1 Bell Yard
London WC2A 2JP(GB)(72) Inventor: **Mortimer, William Patrick**
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Conowingo, MD 21918(US)(74) Representative: **Horne, Martin Grenville et al**
Cruikshank & Fairweather 19 Royal
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Glasgow G1 3AE Scotland (GB)(54) **Electrical insulating material.**

(57) An electrical insulating composite material comprises an intimate admixture of

(a) 5-90 weight percent of a thermoplastic copolymer of tetrafluoroethylene and perfluoro (propyl vinyl ether); and

(b) 90-5 weight percent of coagulated dispersion type polytetrafluoroethylene (PTFE), or of porous expanded PTFE.

Tape made from the composite material may be porous expanded tape or non-porous tape. The tape is wrapped around a conductor (C) and sintered at 320-450 °C. A dual-wrap construction having layers (A, B) of both porous expanded tape and of non-porous tape give particularly good dynamic cut-through and scrape resistance properties.

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EUROPEAN SEARCH REPORT

Application Number

EP 92 20 2891

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.5)
A	DE-A-3 712 308 (DAIKIN INDUSTRIES) * claims 1,7,8; examples; tables * ---	1-4	H01B3/44 C08L27/18 C08L29/10
A	US-A-4 128 693 (K.S.DHAMI) ---		
A	US-A-4 454 249 (H. SUZUKI ET AL) ---		
A	US-A-3 484 503 (L. M. MAGNER ET AL) ---		
A	EP-A-0 138 524 (RAYCHEM CORPORATION) ---		
A	EP-A-0 010 152 (HOECHST AG) -----		
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			H01B C08L
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 09 JULY 1993	Examiner KLIER E.K.
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	