

Title (en)
Electrical insulating material.

Title (de)
Elektrisches Isolationsmaterial.

Title (fr)
Matériau isolant électrique.

Publication
EP 0521588 A2 19930107 (EN)

Application
EP 92202891 A 19910426

Priority
• GB 9009407 A 19900427
• US 51530290 A 19900427

Abstract (en)
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 DEG 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.

IPC 1-7
C08L 27/18; **C08L 29/10**; **H01B 3/44**

IPC 8 full level
C08L 27/18 (2006.01); **C08L 57/00** (2006.01); **H01B 3/44** (2006.01); **H01B 5/16** (2006.01); **H01B 7/02** (2006.01); **H01B 7/29** (2006.01); **H01B 17/56** (2006.01); **H01B 17/60** (2006.01)

CPC (source: EP)
H01B 3/445 (2013.01); **H01B 7/0241** (2013.01); **H01B 7/29** (2013.01)

Cited by
US5560986A; CN111081413A; EP1661947A4; GB2319029A; GB2319029B; US7732531B2; WO9736952A1; WO03095552A1

Designated contracting state (EPC)
DE ES FR GB IT SE

DOCDB simple family (publication)
WO 9117551 A1 19911114; DE 69130062 D1 19981001; DE 69130062 T2 19990408; EP 0521588 A2 19930107; EP 0521588 A3 19930908; EP 0526556 A1 19930210; EP 0526556 B1 19980826; ES 2122972 T3 19990101; GB 2261668 A 19930526; GB 2261668 B 19950111; GB 9219772 D0 19921111; JP 3263071 B2 20020304; JP H05509433 A 19931222

DOCDB simple family (application)
GB 9100661 W 19910426; DE 69130062 T 19910426; EP 91908818 A 19910426; EP 92202891 A 19910426; ES 91908818 T 19910426; GB 9219772 A 19920918; JP 50849591 A 19910426