

Title (en)
Process for the fabrication of a material for electric contact composite

Title (de)
Herstellungsverfahren eines elektrischen Verbundkontaktmaterials

Title (fr)
Procédé de fabrication d'un matériau de contact électrique composite

Publication
EP 0729162 A1 19960828 (FR)

Application
EP 96400406 A 19960226

Priority
FR 9502343 A 19950227

Abstract (en)
The fibre manufacturing method involves pulverisation which significantly reduces the length of the fibres from between 100 and 800 micrometres to residues less than about a single mode value of 20 micrometres with a standard deviation greater than that of the original fibres. Pulverisation occurs prior to mixing or at the same time by mechanical synthesis. The composite is a metal matrix with homogeneously distributed carbon fibres of a pulverised semi-crystalline structure. The fibre has a diameter between 4 and 20 micrometres and forms 2-5% by weight of the mixture. Nickel, tungsten, titanium nitride and tungsten carbide may be part of the matrix.

Abstract (fr)
Procédé de fabrication d'un matériau de contact électrique composite comprenant des fibres de carbone distribuées dans une matrice métallique. Les fibres de carbone, de longueur moyenne initiale L1, sont soumises à un traitement mécanique de broyage (10) qui engendre des éléments de fibres broyées de longueur finale variable dont la valeur moyenne L2 est sensiblement inférieure à L1. <IMAGE>

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H01H 1/02

IPC 8 full level
H01H 1/025 (2006.01); **H01H 1/027** (2006.01)

CPC (source: EP)
H01H 1/027 (2013.01)

Citation (search report)
• [XD] EP 0171339 A1 19860212 - LORRAINE CARBONE [FR]
• [A] WO 9218995 A1 19921029 - DUERRWAECHTER E DR DODUCO [DE] & DE 4111683 A1 19921022 - DUERRWAECHTER E DR DODUCO [DE]
• [DA] US 4699763 A 19871013 - SINHARROY SEMAHAT D [US], et al
• [A] PATENT ABSTRACTS OF JAPAN vol. 12, no. 176 (C - 498) 25 May 1988 (1988-05-25)

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US7598832B2; EP1655749A1; FR2842019A1; CN100367424C; US7638721B2; WO2005046000A1; WO2004006275A3

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