

Title (en)
Conductive fiber composite electrical connector and method of making same

Title (de)
Elektrischer Verbinder aus leitfähigem Faserstoff und Verfahren zur Herstellung

Title (fr)
Connecteur électrique composé de fibres conductrices et méthode de fabrication

Publication
EP 0485991 B1 19970129 (EN)

Application
EP 91119360 A 19911113

Priority
US 61478990 A 19901114

Abstract (en)
[origin: EP0485991A1] A conductive fiber, composite, electrical connector shell member (12,16) composed of a multiplicity of conductive fibers (64) aligned within a resinous substance (62) operable to provide electro-magnetic interference protection for electrical connecting leads in dielectric inserts (18,20,21) within the shell member is disclosed. Embodiments include conductive fiber fillers (64) of nickel-plated graphite, non-plated graphite and stainless steel. Alternative embodiments include resinous substances of polyetheretherketone (PEEK) and liquid crystal polymers (LCP). A method of fabrication utilizing a multi-part mold with center-loaded sprue for the composite electrical connector wherein 40% by weight of the connector is the nickel-plated graphite and 60% resin is also described. A coupling ring (14) may also be fabricated in like manner. Metal layers (66,68,70,72) are successively plated over the shell members (12,16) and coupling ring (14). <IMAGE>

IPC 1-7
H01R 13/658; H05K 9/00

IPC 8 full level
H01R 13/658 (2011.01)

CPC (source: EP)
H01R 13/6599 (2013.01)

Cited by
FR2777709A1; DE19823509C1; DE19823519C1; EP1487068A1; EP1176675A3; EP3101738A1; US6568945B2; WO2008040406A1; WO0044005A1; US9324472B2

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
EP 0485991 A1 19920520; EP 0485991 B1 19970129; DE 69124467 D1 19970313; DE 69124467 T2 19970515

DOCDB simple family (application)
EP 91119360 A 19911113; DE 69124467 T 19911113