Title (en)

Electroconductive conjugate fiber

Title (de)

Elektrisch leitende zusammengesetzte Fasern

Title (fr)

Fibre conjuguée électroconductrice

Publication

EP 0735163 A1 19961002 (EN)

Application

EP 95104615 A 19950329

Priority

EP 95104615 A 19950329

Abstract (en)

An easily producible electroconductive conjugate fiber having an excellent electroconductivity and a high whiteness includes at least one non-electroconductive filamentary segment (A) formed from a fiber-forming polymeric material and at least one electroconductive filamentary segment (B) incorporated with the segments (A) so as to form, for example, a core-in-sheath type or bimetal type conjugate fiber, and including a thermoplastic polymeric matrix (a) and a plurality of electroconductive multilayered particles (b) dispersed in the matrix (a), having an average size of 0.1 to 2.0 mu m and each having (i) a core particle of a metal component, (ii) an undercoat layer formed from tin oxides on the core particle and (iii) an uppercoat layer formed from a mixture of indium oxides with tin oxides on the undercoat layer (ii), and optionally surface-treated with a silane compound, for example, vinyl tri-C1-5 alkoxysilane, or divinyl di-C1-5 alkoxysilane.

IPC 1-7

D01F 1/09; D01F 8/06; D01F 8/14; D01F 8/04

IPC 8 full level

D01F 1/09 (2006.01); **D01F 8/04** (2006.01); **D01F 8/06** (2006.01); **D01F 8/14** (2006.01)

CPC (source: EP)

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Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

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