

Title (en)

Sheath-core spinning of multilobal conductive core filaments.

Title (de)

Spinnen von Mantel-Kern-Fäden mit multilobalem Querschnitt und mit elektroleitfähigem Kern.

Title (fr)

Filage de filaments "âme-gaine" à section multilobée ayant une âme conductrice.

Publication

**EP 0399397 B1 19941019 (EN)**

Application

**EP 90109451 A 19900518**

Priority

US 35605189 A 19890522

Abstract (en)

[origin: EP0399397A2] Multilobal core conductive bicomponent sheath-core filaments are provided and methods for making the same.

IPC 1-7

**D01D 5/253; D01D 5/34; D01F 1/09**

IPC 8 full level

**D01F 8/04** (2006.01); **D01D 5/08** (2006.01); **D01D 5/253** (2006.01); **D01D 5/34** (2006.01); **D01F 1/09** (2006.01); **D01F 8/06** (2006.01);  
**D01F 8/12** (2006.01); **D01F 8/14** (2006.01)

CPC (source: EP)

**D01D 5/253** (2013.01); **D01D 5/34** (2013.01); **D01F 1/09** (2013.01)

Cited by

US5707735A; US5908593A; DE19605831A1; CN111364121A; DE19605847A1; US5753277A; US7022630B2; US7094467B2;  
WO2009053118A1; WO2009086944A1; WO03049589A1; WO2004037534A1; WO9510649A1; WO2009053470A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0399397 A2 19901128; EP 0399397 A3 19910612; EP 0399397 B1 19941019;** CA 2017201 A1 19901122; CA 2017201 C 20010417;  
CN 1028177 C 19950412; CN 1047543 A 19901205; DE 69013395 D1 19941124; DE 69013395 T2 19950330; JP 3216131 B2 20011009;  
JP H0351307 A 19910305; RU 2044804 C1 19950927

DOCDB simple family (application)

**EP 90109451 A 19900518;** CA 2017201 A 19900518; CN 90103812 A 19900522; DE 69013395 T 19900518; JP 13011290 A 19900519;  
SU 4743975 A 19900521