

Title (en)

Power cable with improved dielectric strength

Title (de)

Energiekabel mit verbesserter dielektrischen Festigkeit

Title (fr)

Câble d'énergie à rigidité diélectrique améliorée

Publication

**EP 0645781 B2 20000607 (FR)**

Application

**EP 94402053 A 19940914**

Priority

- FR 9311117 A 19930917
- FR 9312227 A 19931014

Abstract (en)

[origin: EP0645781A1] Power cable with improved dielectric strength, comprising an electrical core and a first polymeric dielectric layer for insulating the said core, characterised in that the said first dielectric layer consists of an insulating polymeric matrix containing at least one conductive polymer incorporated into the said polymeric matrix with a mass fraction such that the resulting electrical conductivity of the said first layer is less than  $10^{-14}$  S/cm for DC and less than  $10^{-10}$  S/cm for AC. <IMAGE>

IPC 1-7

**H01B 9/02**

IPC 8 full level

**H01B 3/30** (2006.01); **H01B 9/02** (2006.01)

CPC (source: EP KR)

**H01B 9/02** (2013.01 - KR); **H01B 9/027** (2013.01 - EP)

Citation (opposition)

Opponent :

- JP H0218811 A 19900123 - FUJIKURA LTD
- EP 0195257 A2 19860924 - BBC BROWN BOVERI & CIE [DE]
- GB 2165689 A 19860416 - ASS ELECT IND
- EP 0112522 A2 19840704 - BBC BROWN BOVERI & CIE [DE]
- GB 2091030 A 19820721 - PIRELLI CAVI SPA
- "Elektrisch leitende Kunststoffe", éds. H.J. Mair et S. Roth, Hansa Verlag, 1986, pages VII-IX, 16, 40, 41, 237-250, 253-262 et 347-359
- "etz", vol. 109, no. 20, 1988, pages 946-951
- "Kunststoffe", Vol. 79, No. 6, pages 510-514, 1989

Cited by

EP0961302A3; US10121570B2; EP2752448A1; WO2016061230A1; EP2784787A1

Designated contracting state (EPC)

CH DE DK FR GB IT LI NL SE

DOCDB simple family (publication)

**EP 0645781 A1 19950329; EP 0645781 B1 19970409; EP 0645781 B2 20000607**; AU 683076 B2 19971030; AU 7296794 A 19950330; CN 1124868 A 19960619; DE 69402494 D1 19970515; DE 69402494 T2 19970717; DE 69402494 T3 20000831; DK 0645781 T3 19970505; DK 0645781 T4 20001009; FR 2710183 A1 19950324; FR 2710183 B3 19951013; JP 4040114 B2 20080130; JP H07169339 A 19950704; KR 100323178 B1 20020513; KR 950009751 A 19950424

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**EP 94402053 A 19940914**; AU 7296794 A 19940914; CN 94118002 A 19940916; DE 69402494 T 19940914; DK 94402053 T 19940914; FR 9312227 A 19931014; JP 22210394 A 19940916; KR 19940023607 A 19940916