

Title (en)

High voltage electric power cable with thermal expansion accommodation.

Title (de)

Elektrisches Hochspannungsenergiekabel mit Anpassung an thermische Ausdehnung.

Title (fr)

Câble électrique de puissance à haute tension avec accomodation lors d'une dilatation thermique.

Publication

EP 0116754 A1 19840829 (EN)

Application

EP 83307062 A 19831118

Priority

US 46580283 A 19830211

Abstract (en)

The insulation shield in a power cable having thick polymeric insulation (12) is constructed of a metallic layer (14) radially spaced from but in electrical communication with an inner semiconducting layer (13) by an intervening helical wrap (15) of a semiconducting or high dielectric constant longitudinal structurally resiliently compressible substantially shape recoverable element. Various elements are described, both hollow and solid, with and without one flat longitudinal surface, and of both monolithic plastic and composite plastic and metal construction.

IPC 1-7

H01B 9/02; **H01B 7/28**

IPC 8 full level

H01B 7/18 (2006.01); **H01B 7/29** (2006.01); **H01B 9/02** (2006.01)

CPC (source: EP)

H01B 7/189 (2013.01); **H01B 7/29** (2013.01); **H01B 9/02** (2013.01)

Citation (search report)

- EP 0015369 A1 19800917 - KABEL METALLWERKE GHH [DE]
- DE 2948651 A1 19810611 - KABEL METALLWERKE GHH [DE]
- FR 2414245 A1 19790803 - CEAT STE FSE [FR]
- FR 2503441 A1 19821008 - FABRICATION CABLES ELECT CIE G [FR]
- DE 2732652 A1 19780119 - ERICSSON TELEFON AB L M
- US 4225749 A 19800930 - PIERRE BERNARD, et al
- GB 1551938 A 19790905 - AEG TELEFUNKEN KABELWERKE

Cited by

CN103594172A; AU743935B2; EP0150879A3; GB2329278A; GB2329278B; EP4293689A1; WO2018122572A1; US6455769B1; WO9933070A1; EP3514805B1

Designated contracting state (EPC)

BE DE FR GB IT LU NL SE

DOCDB simple family (publication)

EP 0116754 A1 19840829; BR 8307059 A 19841113; ES 528055 A0 19841001; ES 8500501 A1 19841001; JP S59148210 A 19840824

DOCDB simple family (application)

EP 83307062 A 19831118; BR 8307059 A 19831222; ES 528055 A 19831214; JP 10784 A 19840105