

Title (en)
High voltage electrical cable

Title (de)
Hochspannungskabel

Title (fr)
Câble électrique à haute tension

Publication
EP 2224459 B1 20181212 (FR)

Application
EP 10154403 A 20100223

Priority
FR 0951257 A 20090227

Abstract (en)
[origin: EP2224459A1] The cable (1) has an electrically insulating layer (4), a metal shield (6) and an outer protective sheath (7) successively arranged around a central conductor element (2). An extruded external layer (8) encloses the protective sheath. The extruded external layer is provided in direct contact with the outer sheath. The extruded external layer is obtained from composition comprising 80 parts by weight of apolar polymer for 100 parts by weight of polar polymer in the composition, a flame retarding filler and an electrically conductive filler. The electrically conductive filler is chosen from a group comprising carbon black, graphite, carbon nanotubes, doped inorganic fillers and/or intrinsic conductive polymer powder. An independent claim is also included for a method for measuring electric current in an outer protective sheath of an electric cable.

IPC 8 full level
H01B 9/02 (2006.01)

CPC (source: EP US)
H01B 9/027 (2013.01 - EP US)

Citation (opposition)
Opponent : The Dow Chemical Company

- WO 03046592 A1 20030605 - PIRELLI [IT], et al
- CN 2710113 Y 20050713 - ZHEJIANG CHENGUANG CABLE CO LT [CN]
- "Global High Voltage Solutions", DOW WIRE & CABLE, August 2008 (2008-08-01), pages 1 - 11, XP055238237
- "Broad demand growth expected to continue", PLASTICS TODAY, 30 June 2008 (2008-06-30), pages 1 - 7, XP055641862
- "Dow Wire & Cable Launches Portfolio for Europe, India, Middle East & Africa; Introduces New Flame-Retardant Compound for High-Heat Environments", WIRE & CABLE TECHNOLOGY INTERNATIONAL, May 2008 (2008-05-01), pages 49, XP055641869
- "Dow Endurance™ DHDA-7708 BK Semiconductive Jacketing Compound", TECHNICAL INFORMATION - POWER, February 2009 (2009-02-01), pages 1 - 3, XP055641871
- "Material Safety Data Sheet Dow ENDURANCE T+ DHDA-7708 BK", THE DOW CHEMICAL COMPANY, 2 March 2007 (2007-03-02), XP055641873
- THE DOW CHEMICAL COMPANY PRODUCTION SPECIFICATION, 7 June 2005 (2005-06-07)
- THE DOW CHEMICAL COMPANY PRODUCTION SPECIFICATION, 12 January 2009 (2009-01-12)
- SPECIFIED MATERIAL CODE DHDA-7708 BK 7708BK
- "Guide for Selecting and Testing Jackets for Power, Instrumentation, and Control Cables", IEEE, 2007, pages 1 - 41, XP017601847
- "Compounds for Wire & Cable", PRAMKOR CATALOGUE

Cited by
FR3029004A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
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DOCDB simple family (application)
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