

Title (en)
Electrically insulating polymer composition and wire or cable using the same.

Title (de)
Elektrisch isolierende Kunststoffmasse und hiermit hergestellten Draht oder Kabel.

Title (fr)
Composition polymère isolante électrique et fils ou câble utilisant cette composition.

Publication
EP 0674325 A3 19951220 (EN)

Application
EP 95104416 A 19950324

Priority
• JP 7638094 A 19940324
• JP 16744394 A 19940627

Abstract (en)
[origin: EP0674325A2] An improved electrically insulating polymer composition is provided, wherein said polymer composition comprising an olefinic polymer as a principal ingredient and functional group containing monomeric units of monomers D1 through D4 at a rate of 5×10^{-7} to 5×10^{-3} mols per gram of the composition, and also comprising ethylenic linkages at a rate of not smaller than 0.8 per 1,000 carbon atoms and/or aromatic ring containing monomeric units of monomer D5 at a rate of 5×10^{-7} to 5×10^{-3} mols per gram of the composition, wherein said monomers D1 through D5 have an ethylenic linkage, the monomer D1 is a carbonyl group or carbonyl group derivative containing monomer, the monomer D2 is a hydroxyl group containing monomer, the monomer D3 is a nitro group containing monomer, the monomer D4 is a nitrile group containing monomer, and the monomer D5 is an aromatic ring containing monomer. And there is also provided a wire or a cable having an electrically insulating polymer composition as defined above or an insulating layer made of such a composition or a material obtained by crosslinking such a composition.

IPC 1-7
H01B 3/44

IPC 8 full level
H01B 3/44 (2006.01)

CPC (source: EP)
H01B 3/44 (2013.01)

Citation (search report)
• [X] EP 0463402 A2 19920102 - NIPPON PETROCHEMICALS CO LTD [JP]
• [X] PATENT ABSTRACTS OF JAPAN vol. 018, no. 088 (E - 1507) 14 February 1994 (1994-02-14)
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• [X] PATENT ABSTRACTS OF JAPAN vol. 018, no. 088 (E - 1507) 14 February 1994 (1994-02-14)
• [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 372 (E - 1246) 11 August 1992 (1992-08-11)
• [A] YOSHIFUJI N: "DEVELOPMENT OF THE NEW POLYMER INSULATING MATERIALS FOR HVDC CABLE", IEEE TRANSACTIONS ON POWER DELIVERY, vol. 7, no. 3, 1 July 1992 (1992-07-01), pages 1053 - 1059, XP000292518
• [A] KIOYOSHI WATANABE: "Development of new water tree suppressive xlpe cable", IEEE TRANSACTIONS ON POWER DELIVERY, vol. 1, no. 1, NEW YORK US, pages 27 - 33

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