

Title (en)

Organogel for electrical cable insulating layer

Title (de)

Organogel für elektrische Kabelisolierschichten

Title (fr)

Organogel pour couche d'isolation de câble électrique

Publication

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Application

EP 10163155 A 20100518

Priority

- EP 09305468 A 20090520
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Abstract (en)

The present invention relates to an electric cable comprising at least one conductor (10), and an electrically insulating layer impregnated with a dielectric fluid (12), said insulating layer (12) surrounding said conductor (10), the dielectric fluid comprising an organogel including an oil and an organo-gelator, characterized in that the oil is a non-polar oil with a flash point inferior or equal to 200°C.

IPC 8 full level

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Citation (applicant)

- WO 9933068 A1 19990701 - ASEA BROWN BOVERI [SE], et al
- LANGMUIR, vol. 18, 2002, pages 7218 - 7222
- JACS, vol. 125, 2003, pages 13148 - 13154
- TETRAHEDRON, vol. 61, 2005, pages 687 - 691
- J.PHYS.CHEM.B, vol. 113, 2009, pages 3360 - 3364
- CHEM.LETT., 2000, pages 292 - 293
- BULL.CHEM.SOC.JPN., vol. 61, 1988, pages 207 - 210

Citation (search report)

- [X] WO 9933066 A1 19990701 - ASEA BROWN BOVERI [SE], et al
- [X] WO 9801869 A1 19980115 - ABB RESEARCH LTD [CH], et al
- [X] WO 9933067 A1 19990701 - ASEA BROWN BOVERI [SE], et al
- [XD] WO 9933068 A1 19990701 - ASEA BROWN BOVERI [SE], et al
- [A] EP 0207787 A2 19870107 - MINNESOTA MINING & MFG [US]

Cited by

US9631136B2; CN107551962A; US11697735B2; US2014142004A1; CN105264041A; EP2976407A4; US9550845B2; US10259984B2; WO2014146191A1; US9217102B2; US10138408B2; US9315720B2

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