

Title (en)

ELECTRICAL INSULATION SYSTEM WITH IMPROVED ELECTRICAL BREAKDOWN STRENGTH

Title (de)

ELEKTRISCHES ISOLATIONSSYSTEM MIT VERBESSERTER ELEKTRISCHER DURCHSCHLAGSSTÄRKE

Title (fr)

SYSTÈME D'ISOLATION ÉLECTRIQUE À RÉSISTANCE ACCRUE AU CLAQUAGE ÉLECTRIQUE

Publication

**EP 2195813 A1 20100616 (EN)**

Application

**EP 07820881 A 20071003**

Priority

EP 2007060504 W 20071003

Abstract (en)

[origin: WO2009043376A1] Electrical insulation system with improved electrical breakdown strength, said electrical insulation system comprising a hardened polymer component having incorporated therein a conventional filler material and a selected pretreated filler material, wherein (a) the hardened polymer component is selected from epoxy resin systems, polyesters, polyamides, polybutylene terephthalate, polyurethanes and polydicyclopentadiene; (b) the conventional filler material is a known filler material having an average grain size distribution within the range of 1  $\mu\text{m}$ - 500  $\mu\text{m}$ , being present in a quantity within the range of 40 %- 65 % by weight, calculated to the total weight of the insulator system; and (c) the selected pretreated filler material is selected from silica, quartz, or a silicate, or is a mixture of these compounds, having an average grain size distribution within the range of 1  $\mu\text{m}$ -500  $\mu\text{m}$ , wherein said selected filler material has been pretreated with an intercalating compound and wherein said pretreated filler material is present in an amount of 1 %-30 % by weight, calculated to the weight of the conventional filler material present in the insulator system.

IPC 8 full level

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Citation (search report)

See references of WO 2009043376A1

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