

Title (en)
FIELD-CONTROLLED COMPOSITE INSULATOR

Title (de)
FELDGESTEUERTER VERBUNDISOLATOR

Title (fr)
ISOLATEUR COMPOSITE À COMMANDE DE CHAMP

Publication
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Application
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Abstract (en)
[origin: CA2715651A1] The materials of an insulator are greatly stressed by the inhomogeneous distribution of the electric field across the surface thereof. One of the causes is the design configuration of the insulator. The field strength changes particularly in the region of the fittings due to the transition from the insulating materials of the shields and the insulator core to a metal material, due to the transition from the ground potential at the cross arm, or to the conductor potential at that location, where the conductor cables are attached. A further cause is the deposit of dirt, which is stress affecting an insulator overall. The invention therefore provides that a field control layer (3) is disposed between the core (2) and the protective layer (4) in at least one section (15; 16) of the insulator (1; 10), said control layer comprising particles as the filler, which influence the electric field of the insulator.

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