

Title (en)
CORROSION PROTECTION FOR THE CAP OF AN ELECTRICAL SUSPENSION INSULATOR

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Application
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Abstract (en)
[origin: US4670624A] An electrical insulator (1) of the type comprising at least one dielectric (2) and an iron or steel cap (3) fixed axially on the dielectric has a device for protecting the cap against corrosion as well as electric arcs. In one embodiment (FIGS. 1-3), the protection device comprises a zinc or aluminum part (10) shaped as a dish with a center hole (11) and outlet holes (12) for the egress of rainwater. The outside wall (13) of the part (10) curves upwardly toward the cap (3) and a portion of the part (10) is disposed between the base (6) of the cap (3) and the outer surface (7) of the dielectric (2). In another embodiment (FIG. 4), the protection device comprises a solid body of revolution (30) of semi-toroidal shape which is formed of zinc or aluminum and is cast directly around the base (6) of the cap (3) and has a thin flange extending between the base (6) of the cap (3) and the outer surface (7) of the dielectric (2). The exterior surface (31) of the solid body of revolution (30) curves upwardly so as to provide between such exterior surface and the outer surface (7) of the dielectric (2) an area for the self-extinguishing of electric arcs.

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