

Title (en)
Shed for an electrical insulator and insulator with a plurality of such sheds

Title (de)
Schirm für einen elektrischen Isolator und Isolator mit mehreren dieser Schirme

Title (fr)
Ailette pour isolant électrique et isolant doté d'une pluralité desdites ailettes

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Application
EP 10188584 A 20101022

Priority
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Abstract (en)
Polymer sheds (10,10',10") and insulators (1) with such sheds (10,10',10") are described that perform well in polluted environments. A shed angle (\pm) of equal to or less than 10° , a shed tip (11,11') radius (R1,R2) of greater than 0.1 mm and in particular equal to or greater than 0.2 mm, but lower than 3 mm results in a material-saving shed with good electrical characteristics. For the insulator (1) with such sheds (10,10',10") an alternating arrangement of the sheds (10,10',10") is preferred and a preferred shed distance (s) is in the range of 20 mm - 40 mm. The minimized design exhibits a small to zero increase in electric field at the shed tip (11,11'), in the dry state, in comparison to sheds and insulators known in the prior art. The thin sheds (10,10',10") perform well in moist and polluted environments. The reduced shed angle (\pm) and tip radius (R1,R2) allow for the dripping of rain while leaving the underside of the shed dry; long pendant drops, which may lead to flashover, are not observed. The creepage distance of the design is controlled by adjusting the shed radius.

IPC 8 full level
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CPC (source: EP)
H01B 17/50 (2013.01); **H01C 7/12** (2013.01); **H01B 17/32** (2013.01)

Citation (search report)
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