

Title (en)  
ELECTRICAL INSULATOR HAVING AN INSENSITIVITY TO POLLUTION

Publication  
**EP 0126984 B1 19870722 (FR)**

Application  
**EP 84104677 A 19840426**

Priority  
FR 8307100 A 19830429

Abstract (en)  
[origin: US4563544A] An electrical insulator offering reduced sensitivity to pollution comprises a body of a glass or porcelain dielectric material with a semiconductor outside coating. This coating mainly consists of zinc oxide with at least one further metal oxide added to it to make its voltage-current characteristic non-linear, such that  $I=kV^\alpha$  where  $I$  is current,  $V$  is voltage,  $k$  and  $\alpha$  are coefficients, and the value of  $\alpha$  is between 20 and 50. The coating is between 0.05 and 0.5 mm thick. The further metal oxide is advantageously selected from bismuth, manganese, cobalt, chromium and antimony oxides.

IPC 1-7  
**H01B 17/50**; **H01B 19/04**

IPC 8 full level  
**H01B 17/42** (2006.01); **H01B 17/50** (2006.01); **H01B 19/04** (2006.01)

CPC (source: EP US)  
**H01B 17/50** (2013.01 - EP US); **H01B 19/04** (2013.01 - EP US)

Cited by  
WO2018220294A1; FR3067164A1

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

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**US 4563544 A 19860107**; AT E28533 T1 19870815; AU 2744184 A 19841101; AU 564892 B2 19870827; BR 8401989 A 19841204; CA 1250916 A 19890307; DE 3464983 D1 19870827; EP 0126984 A1 19841205; EP 0126984 B1 19870722; ES 287936 U 19851116; ES 287936 Y 19860616; FR 2545259 A1 19841102; FR 2545259 B1 19851227; JP H0247808 B2 19901023; JP S59207515 A 19841124; MX 158055 A 19881229; NO 164389 B 19900618; NO 164389 C 19900926; NO 841647 L 19841030; NZ 207972 A 19860711; ZA 843160 B 19850731

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**US 60267684 A 19840423**; AT 84104677 T 19840426; AU 2744184 A 19840427; BR 8401989 A 19840427; CA 452824 A 19840426; DE 3464983 T 19840426; EP 84104677 A 19840426; ES 287936 U 19840427; FR 8307100 A 19830429; JP 8506784 A 19840426; MX 20118084 A 19840427; NO 841647 A 19840426; NZ 20797284 A 19840427; ZA 843160 A 19840427