

Title (en)  
Insulation shield for a high-voltage cable.

Title (de)  
Abschirmung der Isolierung für Hochspannungskabel.

Title (fr)  
Ecran d'isolation pour câble à haute tension.

Publication  
**EP 0076579 A1 19830413 (EN)**

Application  
**EP 82304808 A 19820913**

Priority  
US 30940181 A 19811007

Abstract (en)  
A high voltage solid dielectric cable wherein a coating (4) of high dielectric constant material is applied to the surface of the insulation layer (3) prior to the application of a semi-conducting insulation shield (5) which is formed of semi-conducting tape wound helically over the coated insulation with overlapping adjacent edges. The combination of the high dielectric coating and the semi-conducting nature of the shield acts to reduce the occurrence of insulation deterioration caused by partial discharges in the gaseous voids formed under the tape in the regions of overlap (10). Scratches (7) in the insulation are filled with the coating thereby eliminating the occurrence of partial discharges within these scratches.

IPC 1-7  
**H01B 9/02**; **H01B 13/22**

IPC 8 full level  
**H01B 3/44** (2006.01); **H01B 7/00** (2006.01); **H01B 7/02** (2006.01); **H01B 9/02** (2006.01)

CPC (source: EP)  
**H01B 3/441** (2013.01); **H01B 9/027** (2013.01)

Citation (search report)  
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• [YD] US 3748369 A 19730724 - DESTITO F, et al  
• [Y] US 4008367 A 19770215 - SUNDERHAUF HEINZ

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