

Title (en)

TELECOMMUNICATIONS GAS TUBE APPARATUS AND COMPOSITION FOR USE THEREWITH

Title (de)

FERNMELDEGASROEHRE UND ZUSAMMENSTELLUNG ZUR ANWENDUNG IN EINER SOLCHEN ROEHRE

Title (fr)

TUBE A GAZ POUR EQUIPEMENT DE TELECOMMUNICATIONS ET COMPOSITION DUDIT GAZ A Y UTILISER

Publication

**EP 0763252 A1 19970319 (EN)**

Application

**EP 95921535 A 19950530**

Priority

- US 9506867 W 19950530
- US 25187894 A 19940601

Abstract (en)

[origin: WO9533278A1] A telecommunications gas tube apparatus (40) which is suitable for connection to a gas discharge tube (12) and which comprises an electrically non-linear resistive element (45) prepared from an electrically non-linear composition which comprises a polymeric component and a particulate filler. The composition has an initial resistivity  $\rho_i$  at 25 DEG C of at least  $10^{<9>}$  ohm-cm, and is such that a standard device containing the composition has an initial breakdown voltage  $V_{Si}$ , and after the standard device has been exposed to a standard impulse breakdown test, the device has a final breakdown voltage  $V_{Sf}$  which is from  $0.7V_{Si}$  to  $1.3V_{Si}$ . In addition, the composition in the device has a final resistivity  $\rho_f$  at 25 DEG C of at least  $10^{<9>}$  ohm-cm. Such compositions are useful in providing both vent-safe and fail-safe protection to a gas discharge tube (12).

IPC 1-7

**H01J 17/40**; **H01T 1/14**; **H01C 7/12**; **H01B 1/22**

IPC 8 full level

**H01C 7/10** (2006.01); **H01B 1/22** (2006.01); **H01C 7/12** (2006.01); **H01C 7/13** (2006.01); **H01J 17/40** (2006.01); **H01T 1/14** (2006.01); **H01T 1/16** (2006.01); **H01T 4/12** (2006.01)

CPC (source: EP KR)

**H01B 1/22** (2013.01 - EP); **H01C 7/12** (2013.01 - EP); **H01C 7/126** (2013.01 - EP); **H01J 17/40** (2013.01 - EP KR); **H01T 1/14** (2013.01 - EP)

Citation (search report)

See references of WO 9533278A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI NL PT SE

DOCDB simple family (publication)

**WO 9533278 A1 19951207**; AU 2650595 A 19951221; AU 2658795 A 19951221; BR 9507836 A 19970901; CA 2191737 A1 19951207; CA 2191740 A1 19951207; CN 1149354 A 19970507; CZ 347996 A3 19970611; EP 0763252 A1 19970319; FI 964764 A0 19961129; FI 964764 A 19961129; IL 113502 A0 19950731; IL 113503 A0 19950731; JP H10501372 A 19980203; KR 970703609 A 19970703; PL 317330 A1 19970401; WO 9533277 A1 19951207

DOCDB simple family (application)

**US 9506867 W 19950530**; AU 2650595 A 19950530; AU 2658795 A 19950530; BR 9507836 A 19950530; CA 2191737 A 19950530; CA 2191740 A 19950530; CN 95193320 A 19950530; CZ 347996 A 19950530; EP 95921535 A 19950530; FI 964764 A 19961129; IL 11350295 A 19950426; IL 11350395 A 19950426; JP 50116196 A 19950530; KR 19960706815 A 19961130; PL 31733095 A 19950530; US 9506662 W 19950530