

Title (en)  
GAS TUBE VENT-SAFE DEVICE.

Title (de)  
SICHERHEITENTLÜFTUNGSVORRICHTUNG FÜR EIN GASROHR.

Title (fr)  
DISPOSITIF SERVANT A PROTEGER UN TUBE A GAZ EN CAS DE FUITE DU GAZ.

Publication  
**EP 0649563 A4 19951227 (EN)**

Application  
**EP 93916868 A 19930629**

Priority  
• US 9306218 W 19930629  
• US 90680392 A 19920630

Abstract (en)  
[origin: WO9400856A1] A vent-safe protector (40) for a telecommunications gas tube (12) includes two electrodes (16, 55) (61, 63) separated by a non-linear resistive material (45). Each electrode is connected to a gas tube protector terminal (16, 18) to provide an alternate discharge path if the gas tube (12) fails. The non-linear resistive material (45) is substantially non-conductive when the electrical potential between the electrodes is less than the material's breakdown voltage VB. Above that voltage it becomes conductive and supports a plasma discharge therethrough, effecting a sudden increase in conductivity between the electrodes for discharging high energy potentials with a plasma voltage foldback functionally analogous to the foldback behavior of the gas tube protector.

IPC 1-7  
**H01C 7/12; H02H 9/04**

IPC 8 full level  
**H01C 7/12** (2006.01); **H01R 4/24** (2006.01); **H01R 13/52** (2006.01); **H01T 1/14** (2006.01); **H02H 9/04** (2006.01); **H04M 3/18** (2006.01); **H04Q 1/02** (2006.01)

CPC (source: EP KR)  
**H01C 7/12** (2013.01 - EP KR); **H01R 4/2433** (2013.01 - EP); **H01R 13/5216** (2013.01 - EP); **H01T 1/14** (2013.01 - EP); **H04M 3/18** (2013.01 - EP); **H04Q 1/028** (2013.01 - EP); **H04Q 1/035** (2013.01 - EP)

Citation (search report)  
• No further relevant documents disclosed  
• See references of WO 9400856A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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