

Title (en)

Failsafe overvoltage protector.

Title (de)

Ausfallsicherer Überspannungsschutz.

Title (fr)

Protection de surtension à sûreté intégrée.

Publication

EP 0107762 A1 19840509 (EN)

Application

EP 83108747 A 19830906

Priority

CA 412937 A 19821006

Abstract (en)

A secondary or back-up protection device, for use in protecting telephone apparatus against lightning or other surges, comprises a pair of electrodes (22, 24) abutting one another. At least one of the electrodes has its abutting surface portion coated by an oxide layer (26). The oxide layer insulates the two electrodes from one another until its breakdown voltage is reached, whereupon the layer is punctured and conduction between the electrodes is permitted. Preferably both electrodes have oxide layers on their abutting surfaces. Generally the device will be used in combination with a gas tube device which is the primary protector. Conveniently the secondary device electrodes then comprise a pair of washers mounted on an insulated spigot (20) protruding from one of the electrodes of the gas tube device.

IPC 1-7

H01T 1/14; **H02H 9/04**

IPC 8 full level

H02H 9/04 (2006.01); **H01T 1/14** (2006.01); **H01T 4/12** (2006.01)

CPC (source: EP)

H01T 1/14 (2013.01); **H01T 4/12** (2013.01)

Citation (search report)

- [X] US 2443442 A 19480615 - BUTLER HENRY E
- [A] US 3386007 A 19680528 - HUTCHINSON MICHAEL W
- [A] EP 0017337 A1 19801015 - RELIABLE ELECTRIC CO [US]
- [A] DE 2951467 A1 19810702 - SIEMENS AG [DE]
- [A] US 3898533 A 19750805 - SCUDNER JR FRANK GEORGE
- [AD] US 3412220 A 19681119 - PUPPOLO HENRY F, et al

Cited by

GB2237149A; DE4331215B4

Designated contracting state (EPC)

AT DE FR GB SE

DOCDB simple family (publication)

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DOCDB simple family (application)

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