

Title (en)  
Overvoltage protection element

Title (de)  
Überspannungsschutzelement

Title (fr)  
Élément servant de protection contre les surtensions

Publication  
**EP 0635919 B1 19980805 (DE)**

Application  
**EP 94108276 A 19940530**

Priority  
• DE 4317933 A 19930531  
• DE 4402615 A 19940128

Abstract (en)  
[origin: EP0635919A2] An overvoltage protection element (1) for dissipating transient overvoltages is illustrated and described, having two electrodes (2), an air discharge spark gap (3) acting between the electrodes (2), and a housing (4) which accommodates the electrodes (2), each electrode (2) having a connecting limb (5) and a spark horn (6) which runs at an acute angle with respect to the connecting limb (5), and the spark horns (6) of the two electrodes (2) - which are arranged at a distance from one another - together forming the air discharge spark gap (3). The overvoltage protection element (1) according to the invention is improved in terms of its overvoltage protection behaviour, particularly with respect to the response voltage, the lightning-current carrying capacity, the line follow current carrying capacity and the line follow current extinguishing behaviour, to be precise primary in that the spark horns (6) of the electrodes (2) are provided in their regions adjacent to the connecting limbs (5) with a hole (7) which runs through the connecting limbs (5). <IMAGE>

IPC 1-7  
**H01T 4/10**; **H01T 4/14**

IPC 8 full level  
**H01T 1/22** (2006.01); **H01T 1/20** (2006.01); **H01T 4/10** (2006.01); **H01T 4/14** (2006.01)

CPC (source: EP)  
**H01T 1/20** (2013.01); **H01T 4/10** (2013.01); **H01T 4/14** (2013.01)

Citation (examination)  
DE 2007293 C

Cited by  
AT405112B

Designated contracting state (EPC)  
AT CH DE ES FR GB IT LI NL

DOCDB simple family (publication)  
**EP 0635919 A2 19950125**; **EP 0635919 A3 19950719**; **EP 0635919 B1 19980805**; AT E169430 T1 19980815; AT E198813 T1 20010215; CN 1044952 C 19990901; CN 1097903 A 19950125; ES 2121117 T3 19981116; ES 2154431 T3 20010401; JP 2888754 B2 19990510; JP H07135065 A 19950523

DOCDB simple family (application)  
**EP 94108276 A 19940530**; AT 94108276 T 19940530; AT 97105664 T 19940530; CN 94105940 A 19940531; ES 94108276 T 19940530; ES 97105664 T 19940530; JP 8611194 A 19940425