

Title (en)  
Surge arrester device

Title (de)  
Überspannungsschutzelement

Title (fr)  
Dispositif limiteur de surtensions

Publication  
**EP 1143585 A3 20021106 (DE)**

Application  
**EP 01116334 A 19990421**

Priority  
• DE 19818674 A 19980427  
• EP 99107875 A 19990421

Abstract (en)  
[origin: US2002024789A1] An overvoltage protection element for diverting transient overvoltages, with two electrodes (3, 4), each of which has a current terminal (1, 2), an air-breakdown spark gap (5) between the electrodes (3, 4) and a housing (6) which holds the electrodes (3, 4). The overvoltage protection element with an air-breakdown spark gap (5), with reference to the operating voltage, the lightning surge current and network follow current carrying capacity behavior and the network follow current extinguishing behavior meets current requirements in a special way by the electrodes (3, 4) being located parallel to one another.

IPC 1-7  
**H01T 4/12**

IPC 8 full level  
**H01T 1/00** (2006.01); **H01T 4/02** (2006.01); **H01T 4/12** (2006.01)

CPC (source: EP US)  
**H01T 4/12** (2013.01 - EP US)

Citation (search report)  
• [DA] DE 919056 C 19541011 - WICKMANN WERKE AG  
• [A] US 3878423 A 19750415 - HILL JOHN, et al  
• [A] US 3450923 A 19690617 - BRUMM GERHARD  
• [A] FR 2389994 A1 19781201 - SITS SOC IT TELECOM SIEMENS [IT]  
• [A] GB 1100604 A 19680124 - SIEMENS AG  
• [DA] DE 4402615 A1 19941208 - PHOENIX CONTACT GMBH & CO [DE]

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

DOCDB simple family (publication)  
**US 2002024789 A1 20020228; US 6529360 B2 20030304**; AT E220252 T1 20020715; AT E266903 T1 20040515; CN 1241054 A 20000112; CN 1257586 C 20060524; DE 19818674 A1 19991028; DE 19818674 B4 20040429; DE 59901894 D1 20020808; DE 59909490 D1 20040617; EP 0954073 A1 19991103; EP 0954073 B1 20020703; EP 1143585 A2 20011010; EP 1143585 A3 20021106; EP 1143585 B1 20040512; EP 1143585 B2 20081105; ES 2180239 T3 20030201; ES 2217060 T3 20041101; ES 2217060 T5 20090416; US 6392862 B1 20020521

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**US 93962901 A 20010828**; AT 01116334 T 19990421; AT 99107875 T 19990421; CN 99107616 A 19990427; DE 19818674 A 19980427; DE 59901894 T 19990421; DE 59909490 T 19990421; EP 01116334 A 19990421; EP 99107875 A 19990421; ES 01116334 T 19990421; ES 99107875 T 19990421; US 29974399 A 19990427