

Title (en)
Overvoltage protection element

Title (de)
Überspannungsschutzelement

Title (fr)
Élément de protection contre les surtensions

Publication
EP 0706245 A3 19960911 (DE)

Application
EP 95114840 A 19950921

Priority
• DE 4435968 A 19941007
• DE 4437094 A 19941017
• DE 4439730 A 19941109

Abstract (en)
[origin: EP0706245A2] An overvoltage protection element for diverting transient excess voltages includes two electrodes (2) with an effective air breakdown spark path (3) between them. Each electrode (2) has a connector (5) with an associated obliquely positioned arcing horn (6), with both arcing horns (6) of the mutually spaced electrodes (2) together forming the air breakdown spark path (3). A quench-plate (23) arrangement comprising at least one preferably several quenching plates (22) is provided in the housing (4).

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

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

CPC (source: EP US)
H01T 4/10 (2013.01 - EP US); **H01T 4/14** (2013.01 - EP US)

Citation (search report)
• [X] GB 1006715 A 19651006 - LICENTIA GMBH
• [DA] DE 3716997 A1 19881208 - PHOENIX ELEKT [DE]
• [A] FR 2093479 A5 19720128 - BBC BROWN BOVERI & CIE
• [X] FR 1411995 A 19650924 - THOMSON HOUSTON COMP FRANCAISE
• [A] EP 0009156 A1 19800402 - LICENTIA GMBH [DE]
• [A] EP 0492336 A2 19920701 - ABB PATENT GMBH [DE]

Cited by
CN108370131A; CN111344918A; DE102005060096B4; EP0793318A1; EP0917265A1; FR2770939A1; DE10060426A1; DE10060426B4; EP2328245A2; US9019680B2; US11114823B2; WO2012016743A1; WO0243208A1

Designated contracting state (EPC)
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EP 0706245 A2 19960410; **EP 0706245 A3 19960911**; **EP 0706245 B1 20000607**; AT E193789 T1 20000615; AT E250289 T1 20031015; ES 2148390 T3 20001016; ES 2207875 T3 20040601; US 5754385 A 19980519

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EP 95114840 A 19950921; AT 95114840 T 19950921; AT 99102644 T 19950921; ES 95114840 T 19950921; ES 99102644 T 19950921; US 54175895 A 19951010