

Title (en)
ENCAPSULATED SPARK-GAP BASED SURGE VOLTAGE PROTECTOR

Title (de)
GEKAPSELTER ÜBERSpannungsABLEITER AUF FUNKENSTRECKENBASIS

Title (fr)
LIMITEUR DE SURTENSION SCELLE HERMETIQUEMENT UTILISANT DES ECLATEURS

Publication
EP 1413027 B1 20080305 (DE)

Application
EP 02751106 A 20020703

Priority

- DE 10137607 A 20010801
- DE 10140950 A 20010821
- EP 0207391 W 20020703

Abstract (en)
[origin: WO03012945A1] The invention relates to an encapsulated spark-gap based surge voltage protector comprising large-surface, opposite lying, disk-shaped electrodes in a rotationally symmetrical arrangement in addition to an arc discharge gap which is disposed between the electrodes and which is at least partially encompassed by an impact wall. According to the invention, a first impact wall is arranged in such a way that it is directed from one of the electrodes, protruding above the spark-gap, towards the opposite electrode. A second parallel impact wall is arranged in such a way that it is radially distanced in an outward direction from the first impact wall in relation to the rotationally symmetrical structure. The existing impact walls form a meander shape through which the arc discharge pressure wave passes. Insulation paths which are protected against deposits are disposed downstream from the direction of flow, whereby the desired long-term properties and required degree of reliability of the spark gap are achieved.

IPC 8 full level
H01T 4/12 (2006.01)

CPC (source: EP)
H01T 4/12 (2013.01)

Designated contracting state (EPC)
DE ES FR IT PT

DOCDB simple family (publication)
WO 03012945 A1 20030213; DE 50211845 D1 20080417; EP 1413027 A1 20040428; EP 1413027 B1 20080305

DOCDB simple family (application)
EP 0207391 W 20020703; DE 50211845 T 20020703; EP 02751106 A 20020703