

Title (en)  
SPARK-GAP DEVICE, PARTICULARLY HIGH-VOLTAGE SPARK-GAP DEVICE

Title (de)  
FUNKENSTRECKE, INSBESONDERE HOCHSPANNUNGSFUNKENSTRECKE

Title (fr)  
ECLATEUR, ET NOTAMMENT ECLATEUR A HAUTE TENSION

Publication  
**EP 1629577 A1 20060301 (FR)**

Application  
**EP 04742741 A 20040514**

Priority  
• FR 2004001192 W 20040514  
• FR 0306629 A 20030602

Abstract (en)  
[origin: WO2004109874A1] Spark-gap device comprising two discharge electrodes (2; 3) each having an elongated conductor portion (10; 5), called the active portion, with a connecting longitudinal end (11; 7) fixed to a connector. The electrodes are arranged in such a way that, when an electric arc is generated, said arc is formed between the active portions and the resulting electric current induces a magnetic field moving the electric arc along said active portions, preferably at an erosion-limiting high speed. At least a discharge electrode further comprises at least a second conductor portion (9, 16; 6), called the passive portion, electrically connected to the connector and/or the active portion and with a form adapted to prevent a spontaneous electric arc from being inopportunately generated in normal usage conditions of the device.

IPC 1-7  
**H01T 2/02**

IPC 8 full level  
**H01T 2/02** (2006.01)

CPC (source: EP KR US)  
**H01T 1/04** (2013.01 - KR); **H01T 2/02** (2013.01 - EP US)

Citation (search report)  
See references of WO 2004109874A1

Cited by  
US9466950B2

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**FR 2855662 A1 20041203; FR 2855662 B1 20050715**; AU 2004246293 A1 20041216; AU 2004246293 B2 20081016; CA 2523850 A1 20041216; CA 2523850 C 20151117; CN 1799172 A 20060705; CN 1799172 B 20100428; DE 602004029884 D1 20101216; EP 1629577 A1 20060301; EP 1629577 B1 20101103; JP 2006526874 A 20061124; JP 4442921 B2 20100331; KR 101050494 B1 20110720; KR 20060020659 A 20060306; US 2007058319 A1 20070315; US 7463471 B2 20081209; WO 2004109874 A1 20041216

DOCDB simple family (application)  
**FR 0306629 A 20030602**; AU 2004246293 A 20040514; CA 2523850 A 20040514; CN 200480015367 A 20040514; DE 602004029884 T 20040514; EP 04742741 A 20040514; FR 2004001192 W 20040514; JP 2006508338 A 20040514; KR 20057023239 A 20040514; US 55754804 A 20040514