

Title (en)

Spark gap apparatus and method for electrostatic discharge protection

Title (de)

Funkenstreckevorrichtung und Verfahren zum elektrostatischen Entladungsschutz

Title (fr)

Dispositif éclateur et méthode de protection contre les décharges électrostatiques

Publication

EP 1612897 B9 20071017 (EN)

Application

EP 04015412 A 20040630

Priority

EP 04015412 A 20040630

Abstract (en)

[origin: EP1612897A1] An apparatus for providing electrostatic discharge protection includes a first conductive trace and a second conductive trace. The first conductive trace defines a first conductive periphery and is deposited on a first surface. The second conductive trace defines a second conductive periphery and is deposited on a second surface. The second surface is spaced apart from the first surface by a gap distance and in parallel relation so that a spark gap is defined by the gap distance between the first conductive periphery and the second conductive periphery.

IPC 8 full level

H01T 4/08 (2006.01); **G06F 15/02** (2006.01); **H01L 23/60** (2006.01); **H01T 21/00** (2006.01); **H04Q 7/32** (2006.01); **H05F 3/04** (2006.01); **H05K 1/02** (2006.01); **H05K 3/00** (2006.01); **H05K 3/02** (2006.01)

CPC (source: EP)

H01T 4/08 (2013.01); **H05K 1/026** (2013.01); **H01L 2224/16225** (2013.01); **H01L 2924/00011** (2013.01); **H01L 2924/00014** (2013.01); **H01L 2924/19105** (2013.01); **H05K 3/0038** (2013.01); **H05K 3/027** (2013.01); **H05K 2201/09036** (2013.01)

C-Set (source: EP)

1. **H01L 2924/00014 + H01L 2224/0401**
2. **H01L 2924/00011 + H01L 2224/0401**

Cited by

CN114093334A; EP3813344A4; US11336762B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL HR LT LV MK

DOCDB simple family (publication)

EP 1612897 A1 20060104; **EP 1612897 B1 20070321**; **EP 1612897 B9 20071017**; AT E357761 T1 20070415; CA 2511148 A1 20051230; CA 2511148 C 20090804; DE 602004005436 D1 20070503; DE 602004005436 T2 20071129; HK 1085845 A1 20060901

DOCDB simple family (application)

EP 04015412 A 20040630; AT 04015412 T 20040630; CA 2511148 A 20050629; DE 602004005436 T 20040630; HK 06103292 A 20060314