

Title (en)

OVERVOLTAGE PROTECTION COMPRISING A SPARK GAP

Title (de)

ÜBERSpannungSSchutz MIT EINER FunkenSTRecke

Title (fr)

PROTECTION CONTRE LES SURTENSIONS PRÉSENTANT UN ÉCLATEUR À ÉTINCELLE

Publication

**EP 3075041 B1 20180627 (DE)**

Application

**EP 15700975 A 20150109**

Priority

- DE 102014201752 A 20140131
- EP 2015050307 W 20150109

Abstract (en)

[origin: WO2015113796A1] The invention relates to an overvoltage protection comprising a spark gap (9) and a laser (210) to ignite the spark gap. The laser (210) is connected to an input (226) of an optical elongation element (218) which serves to temporally elongate the laser pulses (310) generated by the laser. The output(230) of the elongation element (218) is connected to one end of an optical transmission fiber (15'), in particular to one end of an optical waveguide (15'). A second end of the transmission fiber (15') is connected to an input (234) of an optical compression element (238) which serves to temporally compress the laser pulses (410). An output (242) of the compressor element (238) is connected to the spark gap (9).

IPC 8 full level

**H01T 1/20** (2006.01); **H01T 2/00** (2006.01)

CPC (source: EP RU)

**H01T 1/20** (2013.01 - EP); **H01T 2/00** (2013.01 - EP RU)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2015113796 A1 20150806**; BR 112016017494 A2 20170808; BR 112016017494 B1 20220215; BR 112016017494 B8 20230425; CN 105900299 A 20160824; CN 105900299 B 20180831; DE 102014201752 A1 20150806; EP 3075041 A1 20161005; EP 3075041 B1 20180627; RU 2016130970 A 20180305; RU 2016130970 A3 20180305; RU 2664390 C2 20180817

DOCDB simple family (application)

**EP 2015050307 W 20150109**; BR 112016017494 A 20150109; CN 201580004205 A 20150109; DE 102014201752 A 20140131; EP 15700975 A 20150109; RU 2016130970 A 20150109