

Title (en)  
SURGE PROTECTION ELEMENT

Title (de)  
ÜBERSpannungSSCHUTZELEMENT

Title (fr)  
ÉLÉMENT DE PROTECTION CONTRE LES SURTENSIONS

Publication  
**EP 3111521 A1 20170104 (DE)**

Application  
**EP 15703057 A 20150203**

Priority  
• DE 102014102459 A 20140225  
• EP 2015052171 W 20150203

Abstract (en)  
[origin: WO2015128159A1] Disclosed is a surge protection element (100) comprising a first electrode (1), a second electrode (2), and a gas discharge chamber (10). The gas discharge chamber (10) is located between the first electrode (1) and the second electrode (2). The surge protection element (100) also comprises an intermediate electrode structure (3) that is located in the gas discharge chamber (10) and is electrically insulated from the first and second electrodes (1, 2).

IPC 8 full level  
**H01T 4/16** (2006.01)

CPC (source: EP US)  
**H01T 1/20** (2013.01 - US); **H01T 4/16** (2013.01 - EP US)

Citation (search report)  
See references of WO 2015128159A1

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**DE 102014102459 A1 20150827**; CN 106030940 A 20161012; CN 106030940 B 20180313; EP 3111521 A1 20170104;  
EP 3111521 B1 20190828; JP 2017510943 A 20170413; JP 6218962 B2 20171025; US 10211603 B2 20190219; US 2017077678 A1 20170316;  
WO 2015128159 A1 20150903

DOCDB simple family (application)  
**DE 102014102459 A 20140225**; CN 201580010508 A 20150203; EP 15703057 A 20150203; EP 2015052171 W 20150203;  
JP 2016553831 A 20150203; US 201515121757 A 20150203