

Title (en)  
ION GENERATOR

Title (de)  
IONENGEGENERATOR

Title (fr)  
GÉNÉRATEUR D'IONS

Publication  
**EP 3346560 A1 20180711 (EN)**

Application  
**EP 17382001 A 20170104**

Priority  
EP 17382001 A 20170104

Abstract (en)  
Ion generator for ionizing the air, comprising at least one emitter (10, 11), the emitter (10, 11) comprising a conductive element (12) and a plurality of conductive filaments (13) electrically connected and fixed to the conductive element (12), each emitter (10, 11) comprising a support (14) made with electrically insulating material holding the conductive element (12), said holding leaving the filaments (13) free of movements. Each emitter (10, 11) comprises a grounded mounting bracket (15) made with conductive material, the mounting bracket (15) holding the support (14), said support (14) comprising at least one spacer element (16) that is prolonged between the mounting bracket (15) and the filaments (13) forming a barrier to prevent electric arcs between said mounting bracket (15) and said filaments (13).

IPC 8 full level  
**H01T 23/00** (2006.01)

CPC (source: EP)  
**H01T 19/04** (2013.01); **H01T 23/00** (2013.01)

Citation (applicant)  
CN 205265040 U 20160525 - LIU YANBING

Citation (search report)  
• [XAYI] US 6077334 A 20000620 - JOANNOU CONSTANTINOS J [CA]  
• [YDA] CN 205265040 U 20160525 - LIU YANBING  
• [IA] JP 2006236976 A 20060907 - TORAY INDUSTRIES  
• [A] JP 2013073886 A 20130422 - UNIV YAMAGATA  
• [A] JP 2011129351 A 20110630 - SEIDENKI ENERGY KENKYUSHO KK

Cited by  
CN115916412A; EP4145051A4; US11695259B2; US11283245B2; US11980704B2; WO2023078711A1; US11581709B2; US12015250B2; WO2021257985A1; US11344922B2

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)  
**EP 3346560 A1 20180711**

DOCDB simple family (application)  
**EP 17382001 A 20170104**