

Title (en)

PLASMA SUPERCONFINEMENT GENERATOR FOR PRODUCING POSITIVE OR NEGATIVE IONS IN A GASEOUS MEDIUM

Title (de)

Positive oder negative Ionengenerator im Gasmedium mit Plasmaeinschluss

Title (fr)

GENERATEUR D'IONS POSITIFS OU NEGATIFS EN MILIEU GAZEUX A SURCONFINEMENT DE PLASMA

Publication

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Application

EP 95926407 A 19950720

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Abstract (en)

[origin: US5789749A] PCT No. PCT/FR95/00978 Sec. 371 Date Mar. 21, 1997 Sec. 102(e) Date Mar. 21, 1997 PCT Filed Jul. 20, 1995 PCT Pub. No. WO96/02966 PCT Pub. Date Feb. 1, 1996The invention relates to a generator of ions in gaseous medium comprising at least one emissive needle (Ag) disposed in a system of plates (P2, P4, P5) connected to a high voltage electrical source (Al), an insulating plate ensuring the diffusion of the electrons, and is characterized in that the needle (Ag) comprises a coaxial sheath (Gn) of a dielectric material of high resistivity, low loss and relatively high permittivity, extended by a first conical proximal section (Cp) of the same material, leaving exposed the emissive end of the needle, and itself extended by an open conical distal structure (Cd) of the same material as the sheath, in that said distal structure (Cd) is extended by a plate (Pi) of the same material as the sheath and constituting with the distal conical structure (Cd) said diffusion plate of the electrons and in that said extending plate (Pi) is fixed below a plate (P6) of a material of very low electrical conductivity, adapted to form a portion of the external housing of the generator. Use particularly in the depollution/decontamination of localities and in the protection of sites sensitive to static charges.

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