

Title (en)  
PLASMA DISCHARGE SYSTEM AND METHOD OF USING THE SAME

Title (de)  
PLASMAENTLADUNGSSYSTEM UND VERFAHREN ZUR VERWENDUNG DAVON

Title (fr)  
SYSTÈME À DÉCHARGE DE PLASMA ET SON PROCÉDÉ D'UTILISATION

Publication  
**EP 3849282 A1 20210714 (EN)**

Application  
**EP 20150850 A 20200109**

Priority  
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Abstract (en)  
The present invention relates to a plasma discharge system and a method for operating the plasma discharge system. The system comprises a voltage source; a conductive coil electrically connected to the voltage source, the conductive coil being configured to generate a magnetic field when electric current is flowed therethrough; a first electrode structure electrically connected to the voltage source; a second electrode structure positioned apart from the first electrode structure and being electrically connected to the voltage source so as to create a potential difference between the first and the second electrode structures such that at least one electrical discharge occurs in between the first and the second electrode structures. The conductive coil and the first and second electrode structures are positioned such that the magnetic field exerts a force on the electrical discharge. The conductive coil is electrically connected in series with the first and/or second electrode structures.

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**H05H 1/50** (2013.01)

Citation (applicant)  
WO 2017021194 A1 20170209 - TERRAPLASMA GMBH [DE]

Citation (search report)  
• [XYI] CN 109640503 A 20190416 - XIAN AEROSPACE PROPULSION INST  
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