

Title (en)
APPARATUS FOR GENERATING ACCELERATED ELECTRONS

Title (de)
VORRICHTUNG ZUM ERZEUGEN BESCHLEUNIGTER ELEKTRONEN

Title (fr)
DISPOSITIF DE GÉNÉRATION D'ÉLECTRONS ACCÉLÉRÉS

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Application
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Abstract (en)
[origin: WO2015058971A1] The invention relates to an apparatus for generating accelerated electrons, comprising: a housing (101) which delimits an evacuable space (102a; 102b) and has an electron exit window (104); an inlet for supplying a working gas into the evacuable space (102); at least one first cathode (105a; 105b) and at least one first anode (101), between which a corona discharge plasma (106) can be generated in the evacuable space (102a) by means of a first applied electric voltage, wherein ions from the corona discharge plasma (106) can be accelerated onto the surface (110) of a second cathode (107) and electrons emitted by the second cathode (107) can be accelerated in the direction of the electron exit window (104) by means of a second electric voltage applied between the second cathode (107) and a second anode (108), wherein the housing (101), the second cathode (107) and the electron exit window (104) are ring-shaped, and wherein the surface perpendiculars of the electron exit window (104) and the surface region (110) of the second cathode (107) from which the electrons are emitted are oriented towards the ring interior of the ring-shaped housing (101).

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Citation (search report)
See references of WO 2015058971A1

Citation (examination)
"Electron Beam Technology", 1 January 1982, WILEY-INTERSCIENCE, BERLIN, ISBN: 978-0-471-06056-7, article SIEGFRIED SCHILLER ET AL:
"---", pages: 338 - 339, XP055426952

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