

Title (en)
IOT BASED POWER SYSTEM

Title (de)
IOT-BASIERTES SPANNUNGSVERSORGUNGSSYSTEM

Title (fr)
SYSTÈME D'ALIMENTATION À BASE D'UN IOT

Publication
EP 3364440 A1 20180822 (EN)

Application
EP 17156494 A 20170216

Priority
EP 17156494 A 20170216

Abstract (en)
A system for powering an accelerator component, comprising an inductive output tube (10), including a thermionic cathode (11) and an anode (13) spaced therefrom, the anode (13) and cathode (11) being operable at a high voltage therebetween to form and accelerate an electron beam, as well as a grid (15) arranged between the cathode (11) and anode (13) and accepting a high frequency control signal to density modulate the beam, a tube power supply (30) for supplying the high voltage between said anode (13) and cathode (11), the tube power supply (30) comprising a cathode line (31) and an anode line (33) connected to the cathode (11) and anode (13), respectively, a grid power supply (40) for supplying a bias voltage between the grid (15) and cathode (11), the grid power supply (40) comprising a grid line (45) and a cathode line (41) connected to the grid (15) and cathode (11), respectively, and a filament power supply (50) for supplying current to heat the cathode (11), the filament power supply (50) comprising a circuit (51) connected to the cathode (11). The cathode (11) is connected to ground and the tube power supply (30) is configured to supply a positive high voltage between said anode and cathode. The tube power supply (30) can be configured to supply said high voltage in a pulsed manner.

IPC 8 full level
H01J 23/34 (2006.01); **H01J 25/04** (2006.01); **H05H 7/02** (2006.01)

CPC (source: EP)
H01J 23/34 (2013.01); **H01J 25/10** (2013.01); **H05H 7/02** (2013.01); **H05H 2007/022** (2013.01); **H05H 2007/025** (2013.01)

Citation (applicant)
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CN115692138A

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 3364440 A1 20180822

DOCDB simple family (application)
EP 17156494 A 20170216