

Title (en)  
THERMIONIC EMISSION DEVICE

Title (de)  
THERMIONISCHE EMISSIONSVORRICHTUNG

Title (fr)  
DISPOSITIF D'ÉMISSION THERMIONIQUE

Publication  
**EP 3518266 A1 20190731 (DE)**

Application  
**EP 18154147 A 20180130**

Priority  
EP 18154147 A 20180130

Abstract (en)  
[origin: WO2019149482A1] The invention relates to an emission device comprising - an emitter (1) which comprises a structured main emission surface (11) and which can be switched to a main potential (U1), and - a connectable field effect electron emitter (2) which comprises a structured heat emission surface (21) and which can be switched to a heat potential (U2) that differs from the main potential (U1), wherein - the heat emission surface (21) comprises a specifiable number of individually controllable field effect emitter segments (22). Such an emission device has a longer service life while maintaining a constant image quality.

Abstract (de)  
Die Erfindung betrifft eine thermionische Emissionsvorrichtung, umfassend- einen Flachemitter (1) mit einer Hauptemissionsfläche (11), der an ein Hauptpotential (U) schaltbar ist, und- einen zuschaltbaren Feldeffekt-Elektronenemitter (2) mit einer Heizemissionsfläche (21), die an ein Heizpotential (U) schaltbar ist, das unterschiedlich zum Hauptpotential (U) ist. Eine derartige thermionische Emissionsvorrichtung besitzt eine längere Lebensdauer bei gleichbleibender Bildqualität.

IPC 8 full level  
**H01J 35/06** (2006.01); **H01J 1/20** (2006.01); **H01J 1/22** (2006.01)

CPC (source: EP)  
**H01J 1/20** (2013.01); **H01J 1/22** (2013.01); **H01J 35/06** (2013.01); **H01J 2235/068** (2013.01)

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