

Title (en)

Electron emitter, drive circuit of electron emitter and method of driving electron emitter

Title (de)

Elektronen-Emitter, Ansteuerkreis für Elektronen-Emitter und Verfahren zur Ansteuerung von Elektronen-Emitter

Title (fr)

Emetteur électronique, circuit de commande pour un émetteur électronique et procédé pour commander un émetteur électronique

Publication

EP 1376641 A3 20061025 (EN)

Application

EP 03253962 A 20030624

Priority

- JP 2002183481 A 20020624
- JP 2002289127 A 20021001
- JP 2003154412 A 20030530

Abstract (en)

[origin: EP1376641A2] An electron emitter (10A) has an emitter section (14) formed on a substrate (12), a cathode electrode (16) formed on one surface of the emitter section (14), and an anode electrode (20) formed on the same one surface of the emitter section (14) and cooperating with the cathode electrode (16) in providing a slit (18). A pulse generation source (22) applies a drive voltage (Va) between the cathode electrode (16) and the anode electrode (20). The anode electrode (20) is connected to GND (ground). The slit (18) has a width (d) in the range from 0.1 μm to 50 μm .

IPC 8 full level

H01J 1/30 (2006.01); **H01J 1/312** (2006.01); **G09G 3/20** (2006.01); **G09G 3/22** (2006.01); **H01J 1/304** (2006.01); **H01J 1/316** (2006.01); **H01J 29/04** (2006.01); **H01J 31/12** (2006.01)

CPC (source: EP)

G09G 3/22 (2013.01); **H01J 1/30** (2013.01); **H01J 1/316** (2013.01); **G09G 3/2011** (2013.01); **G09G 2300/0439** (2013.01); **G09G 2310/06** (2013.01); **G09G 2320/043** (2013.01); **G09G 2330/04** (2013.01); **H01J 2201/32** (2013.01); **H01J 2329/00** (2013.01)

Citation (search report)

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- [XY] US 5453661 A 19950926 - AUCIELLO ORLANDO H [US], et al
- [X] EP 0628982 A2 19941214 - CANON KK [JP]
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- [Y] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 12 29 October 1999 (1999-10-29)
- [A] PATENT ABSTRACTS OF JAPAN vol. 2002, no. 08 5 August 2002 (2002-08-05)
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Designated contracting state (EPC)

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Designated extension state (EPC)

AL LT LV MK

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 03253962 A 20030624; JP 2003154412 A 20030530