

Title (en)

ELECTRON GUN FOR LINEAR ACCELERATOR AND ACCELERATING STRUCTURE COMPRISING SUCH A GUN

Publication

EP 0115720 B1 19870311 (FR)

Application

EP 83402408 A 19831213

Priority

FR 8221399 A 19821221

Abstract (en)

[origin: US4617494A] The invention relates to an electron gun for a linear accelerator, able to supply a modulated electronic current for injection into an accelerating structure. Such an electron gun comprises a cavity resonator in which a cathode and a grid define a grid-cathode space, on which is closed said cavity resonator. An electromagnetic wave injected into said cavity resonator defines, with the grid and the cathode, an alternating potential difference by which the electronic current is modulated. The invention more particularly applies to industrial irradiation machines.

IPC 1-7

H01J 3/00; H05H 9/00

IPC 8 full level

H05H 7/18 (2006.01); **H05H 9/00** (2006.01)

CPC (source: EP US)

H05H 7/18 (2013.01 - EP US); **H05H 9/00** (2013.01 - EP US)

Cited by

FR2582180A1; EP0420671A3; FR2694447A1; US5342811A

Designated contracting state (EPC)

CH DE GB LI

DOCDB simple family (publication)

FR 2538206 A1 19840622; **FR 2538206 B1 19850607**; CA 1214874 A 19861202; DE 3370235 D1 19870416; EP 0115720 A1 19840815; EP 0115720 B1 19870311; US 4617494 A 19861014

DOCDB simple family (application)

FR 8221399 A 19821221; CA 443833 A 19831220; DE 3370235 T 19831213; EP 83402408 A 19831213; US 56244283 A 19831216