

Title (en)  
ELECTRON BEAM INJECTION DEVICE FOR A MICROWAVE GENERATOR

Publication  
**EP 0124396 B1 19880127 (FR)**

Application  
**EP 84400615 A 19840327**

Priority  
FR 8305604 A 19830406

Abstract (en)  
[origin: US4567402A] A device is provided for injecting an electron beam propagating along an axis (x) in a cycloidal path under the action of a continuous electric field and a static magnetic field (B) perpendicular to the axis of propagation and to the electric field. The injection device comprises an electron gun placed in a weak magnetic field (B1) and means, placed in a magnetic field (B2) increasing progressively along the axis (x), for creating in this zone a continuous electric field having two components in the plane perpendicular to the magnetic field.

IPC 1-7  
**H01J 23/075**; **H01J 25/02**

IPC 8 full level  
**H01S 1/00** (2006.01); **H01J 23/075** (2006.01); **H01J 25/02** (2006.01)

CPC (source: EP US)  
**H01J 23/075** (2013.01 - EP US); **H01J 25/02** (2013.01 - EP US); **Y10S 505/88** (2013.01 - EP US)

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CH DE GB LI

DOCDB simple family (publication)  
**FR 2544128 A1 19841012**; **FR 2544128 B1 19850614**; DE 3469102 D1 19880303; EP 0124396 A1 19841107; EP 0124396 B1 19880127; JP S59197179 A 19841108; US 4567402 A 19860128

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**FR 8305604 A 19830406**; DE 3469102 T 19840327; EP 84400615 A 19840327; JP 6833784 A 19840405; US 59566384 A 19840402