

Title (en)
DEVICE FOR THE IRRADIATION OF MATTER BY AN ELECTRON BEAM

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EP 0186558 B1 19890510 (FR)

Application
EP 85402371 A 19851202

Priority
FR 8419153 A 19841214

Abstract (en)
[origin: US4663532A] The invention relates to an apparatus for irradiating material by an electron beam. The apparatus comprises guidance means for placing the material on the path of the beam, an electron gun provided in a tight enclosure having a shape with a symmetry or revolution with respect to an axis, an electron-emitting filament located in the axis of the enclosure, as well as a Wehnelt electrode surrounding the filament. It is provided with a first circular slot for concentrating electrons in the vicinity of the said slot and an electron accelerating electrode surrounding the Wehnelt electrode and having a second circular slot facing the first slot. The enclosure comprises a tightly closed circular window which is transparent to the electrons and which faces the two slots.

IPC 1-7
G21K 5/04; H01J 33/00

IPC 8 full level
G21K 5/04 (2006.01); **H01J 33/00** (2006.01)

CPC (source: EP US)
G21K 5/04 (2013.01 - EP US); **H01J 33/00** (2013.01 - EP US)

Cited by
EP0543920A4; US11506565B2; DE4432982A1; DE4432982C2; EP0295981A1; FR2616033A1; US4893058A

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