

Title (en)
ELECTRON BEAM EXIT WINDOW

Title (de)
ELEKTRONENSTRAHLAUSTRITTSFENSTER

Title (fr)
FENETRE DE SORTIE POUR FAISCEAU ELECTRONIQUE

Publication
EP 0646283 B1 19970122 (DE)

Application
EP 93911733 A 19930503

Priority
• DE 9300402 W 19930503
• DE 4219562 A 19920615

Abstract (en)
[origin: DE4219562C1] Owing to their necessary thickness, prior art electron beam exit windows (Lenard windows) have a high absorption or require cooling systems and expensive supporting structures. The aim is to provide a window which is easy to make with low absorption which avoids these problems. The beam exit aperture is given a vacuum-tight seal in the prior art manner using a metal foil while on the vacuum side a supporting grid of highly heatproof fibre strands secured in a frame is fitted to bear against it. The electron beam exit window is particularly suitable for relative low electron energies with high power density.

IPC 1-7
H01J 33/04; **H01J 5/18**

IPC 8 full level
H01J 5/18 (2006.01); **H01J 33/04** (2006.01)

CPC (source: EP US)
H01J 5/18 (2013.01 - EP US); **H01J 33/04** (2013.01 - EP US)

Cited by
US7768267B2; US7295015B2

Designated contracting state (EPC)
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DE 4219562 C1 19930715; DE 59305276 D1 19970306; EP 0646283 A1 19950405; EP 0646283 B1 19970122; JP H08501651 A 19960220; US 5561342 A 19961001; WO 9326032 A1 19931223

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