

Title (en)  
TRANSPARENT WINDOW

Publication  
**EP 0059249 B1 19850130 (DE)**

Application  
**EP 81108935 A 19811026**

Priority  
DE 3108006 A 19810303

Abstract (en)  
[origin: EP0059249A2] 1. A radiation outlet window for an acceleration device, consisting of a metal mounting (12; 22; 32) made of an iron or copper material, and a foil (11; 21; 31) made of another material having a substantially smaller atomic number, which window seals the acceleration chamber, which is under a high vacuum, from the outer atmosphere in a high-vacuum tight manner, characterised in that the foil (11; 21; 31) is connected to the metal mounting (12; 22; 32) on one side by one, or on both sides by two, intermediate pieces (13, 14; 23, 24; 33) so as to be high-vacuum tight ; and that the intermediate pieces (13, 14; 23, 24; 33) and the foil (11; 21; 31) consist of identical or similar materials and are connected to one another by fusion welding.

IPC 1-7  
**H01J 33/04**

IPC 8 full level  
**G21K 5/00** (2006.01); **H01J 33/04** (2006.01); **H05H 7/00** (2006.01)

CPC (source: EP)  
**H01J 33/04** (2013.01)

Citation (examination)  
• US 3222558 A 19651207 - HUESCHEN ROBERT E  
• EP 0023272 A1 19810204 - SIEMENS AG [DE]

Cited by  
EP0104938A3; EP1197470A3; US9159522B2; US10032596B2

Designated contracting state (EPC)  
FR GB SE

DOCDB simple family (publication)  
**EP 0059249 A2 19820908; EP 0059249 A3 19821208; EP 0059249 B1 19850130**; DE 3108006 A1 19820916; JP S57158600 A 19820930

DOCDB simple family (application)  
**EP 81108935 A 19811026**; DE 3108006 A 19810303; JP 2976282 A 19820225