

Title (en)
ELECTRON BEAM ACCELERATOR

Title (de)
ELEKTRONENSTRAHLBESCHLEUNIGER

Title (fr)
ACCELERATEUR DE FAISCEAU D'ELECTRONS

Publication
EP 1194944 B1 20110119 (EN)

Application
EP 00943252 A 20000628

Priority
• US 0017816 W 20000628
• US 34959299 A 19990709

Abstract (en)
[origin: WO0104924A1] An electron accelerator includes a vacuum chamber having an electron beam exit window. The exit window is formed of metallic foil bonded in metal to metal contact with the vacuum chamber to provide a gas tight seal therebetween. The exit window is less than about 12.5 microns thick. The vacuum chamber is hermetically sealed to preserve a permanent self-sustained vacuum therein. An electron generator is positioned within the vacuum chamber for generating electrons. A housing surrounds the electron generator. The housing has an electron permeable region formed in the housing between the electron generator and the exit window for allowing electrons to accelerate from the electron generator out the exit window in an electron beam when a voltage potential is applied between the housing and the exit window.

IPC 8 full level
G21K 5/04 (2006.01); **H01J 3/02** (2006.01); **G21K 5/00** (2006.01); **H01J 5/06** (2006.01); **H01J 33/00** (2006.01); **H01J 33/04** (2006.01)

CPC (source: EP)
H01J 5/06 (2013.01); **H01J 33/00** (2013.01); **B65B 55/02** (2013.01); **B65B 55/103** (2013.01)

Citation (examination)
US 5483074 A 19960109 - TRUE RICHARD B [US]

Cited by
WO2015125418A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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WO 0104924 A1 20010118; AT E496387 T1 20110215; AU 5774800 A 20010130; BR 0013191 A 20020430; CN 1369105 A 20020911; DE 60045551 D1 20110303; EP 1194944 A1 20020410; EP 1194944 B1 20110119; EP 2239755 A2 20101013; EP 2239755 A3 20151125; JP 2003504605 A 20030204; JP 4808879 B2 20111102

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