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(54) **Electron Beam Accelerator**

(57) 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.

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Place of search The Hague		Date of completion of the search 20 October 2015	Examiner Clemente, Gianluigi
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