

Title (en)
High power X-Ray tube

Title (de)
Hochleistungsröntgenröhre

Title (fr)
Tube à rayons x de haute puissance

Publication
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Application
EP 99123769 A 19911121

Priority
• EP 91310751 A 19911121
• US 61646490 A 19901121

Abstract (en)
A high power x-ray generating tube (2) for reducing the effects of excessive heating of the window (16) through which the x-rays (16) are transmitted. The x-ray generating tube consists of a metal center section (6) having a stationary cathode (8) and a rotating anode (10). Various embodiments are employed for deflecting secondary electrons back scattered from the anode away from the window (16) to avoid overheating of the window. In particular the invention is characterised in that the window (16) includes insulating means for providing a build-up of negative charge on the inner surface of the window to repel secondary electrons (20). A grounded anode simplifies the mechanisms required to prevent overheating.

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Cited by
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