

Title (en)
X-ray tube and barrier means therefor

Title (de)
Röntgenröhre und Barrierevorrichtung dafür

Title (fr)
Tube à rayons X et élément barrière associé

Publication
EP 0768699 A1 19970416 (EN)

Application
EP 96307066 A 19960927

Priority
GB 9519715 A 19950927

Abstract (en)
An X-ray tube (7) is provided which is capable of generating high intensity X-rays without loss of reliability. The tube (7) includes a barrier means disposed between the focal spot (24) of the incident electron beam and the tube window (31) which prevents scattered electrons from reaching the window (31), whereas X-rays (9) are permitted to pass through at least a portion of the barrier means to reach the window (31). The X-ray permeable portion (20) of the barrier means typically consists of a diamond sheet. The X-ray tube has a small incident angle alpha (preferably between 7 DEG and 13 DEG), a short distance between the focal spot (24) and the window (31), and a take-off angle beta preferably in the range 0 DEG to 20 DEG . <IMAGE>

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H01J 35/16

IPC 8 full level
H01J 35/16 (2006.01)

CPC (source: EP)
H01J 35/16 (2013.01); **H01J 2235/168** (2013.01)

Citation (search report)

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