

Title (en)

X-ray tube rotating anticathode.

Title (de)

Röntgenröhre-Drehantikathode.

Title (fr)

Anticathode tournante de tube à rayons X.

Publication

EP 0415847 B1 19941207 (FR)

Application

EP 90402388 A 19900829

Priority

FR 8911441 A 19890831

Abstract (en)

[origin: US5031201A] An X-ray tube anticathode, intended to be used, for example, in medical instruments, such as scanners, includes a support made of a ceramic/ceramic composite material and a refractory metal film directly in contact with this support. The use of a ceramic/ceramic composite makes it possible to rotate the anticathode at an extremely high speed. In addition, this composite is selected 1) so that its coefficient of expansion is as compatible as possible with that of the refractory metal, which favors adhesion between the support and the active film, and 2) so that the phenomenon of the diffusion of carbon atoms is suppressed or minimized at the active film under the effect of the rise of temperature by not using a graphite material, which renders it ineffective in using an anticarbonizing film, such as rhenium, indium, SiC, etc.

IPC 1-7

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