

Title (en)

X-ray tube anode with oxide layer.

Title (de)

Röntgenröhrenanode mit Oxidbeschichtung.

Title (fr)

Anode pour tube à rayons X avec couche d'oxide.

Publication

EP 0421521 B1 19941109 (DE)

Application

EP 90202558 A 19900927

Priority

AT 227689 A 19891002

Abstract (en)

[origin: EP0421521A2] The improvement of the thermal emissivity of metallic X-ray tube anodes by oxide coating has been successfully used for years, but nevertheless there is a constant demand for the improvement of the properties or effects of the layer. <??>According to the present invention, 1-20% by weight, in particular 4-7% by weight, of silicon oxide, in addition to small proportions of other compounds, is added to a known oxide coating applied by standard processes and consisting of zirconium oxide, titanium oxide, aluminium oxide and/or calcium oxide. This makes it possible to improve the application of such oxides or oxide mixtures substantially and to process them so as to produce more usable layers than hitherto without adversely affecting the important properties of layer adhesion and thermal coefficient of emission.

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