

Title (en)

X ray tube anode and tube having same.

Title (de)

Röntgenröhrenanode und Röntgenröhre mit einer solchen Anode.

Title (fr)

Anode pour tube à rayons X et tube l'utilisant.

Publication

**EP 0432568 A2 19910619 (EN)**

Application

**EP 90122630 A 19901127**

Priority

US 44838489 A 19891211

Abstract (en)

An X-ray tube anode (32) has a thin metal film first layer (31a), e.g. W, for producing hard X-rays. A diamond (31b) second layer supports the first layer, conducts heat away from it, and transmits X-rays (34a, 34b). The layers usually have a maximum thickness of about the stopping distance of incident electrons. An X-ray tube has such an anode and a heat sink (38) in contact with the layers. The sink can have a beam dump (42) and a transmission mode X-ray window (36b). A normal mode X-ray window (36a) is in the tube envelope near the anode.

IPC 1-7

**H01J 35/08; H01J 35/18**

IPC 8 full level

**H01J 35/08** (2006.01); **H01J 35/18** (2006.01)

CPC (source: EP US)

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**H01J 2235/122** (2013.01 - EP); **H01J 2235/183** (2013.01 - EP)

Cited by

CN114501758A; EP1727185A1; US5878110A; GB2417822A; DE19934987A1; DE19934987B4; US5657365A; EP0584871A1; EP0777255A1; EP0553912A1; EP0788136A1; CN103293174A; US7186022B2; GB2453570A; EP0974149A4; EP2239757A4; US2015110252A1; US9390881B2; US8085897B2; US10585206B2; US11152183B2; US7298826B2; WO0108195A1; WO2004053919A3; WO0057449A1; WO9506952A1; US7436931B2; USRE48612E; US6850598B1; US8094784B2; US10847336B2; US11551903B2; WO2004097886A3; WO2013007484A1; DE102008007413A1; US9675306B2; US9823203B2; US10007019B2; US10352880B2; US10670769B2; US10295483B2; US10297359B2; US10656105B2; US10976271B2; US10295486B2; US10483077B2; US10658145B2; US10991538B2; US7564939B2; US7349525B2; US9726619B2; US10401309B2; US10578566B2; US7505563B2; US7903789B2; US10098214B2; US10247683B2; US10466185B2; US7512215B2; US9638646B2; US10845491B2; US10989822B2; US7664230B2; US9618648B2; US10175381B2; US10269528B2; US10295485B2; US10901112B2; US10976273B2; US11796711B2; US7471769B2; US10585207B2; US10962491B2; US11275194B2; US11768313B2; US8031839B2; US9747705B2; US9791590B2; US10304580B2; US10317566B2; US10349908B2; US10416099B2; US10591424B2; US10653376B2; US11056308B2; US11550077B2

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