

Title (en)

METHOD OF PRODUCING TARGET FOIL MATERIAL FOR X-RAY TUBES

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES ZIELFOLIENMATERIALS FÜR RÖNTGENRÖHREN

Title (fr)

PROCEDE DE PRODUCTION DE MATERIAU DE FEUILLE CIBLE POUR TUBES A RAYONS X

Publication

EP 1831911 A2 20070912 (EN)

Application

EP 05854645 A 20051216

Priority

- US 2005045971 W 20051216
- US 63789004 P 20041221
- US 65706705 P 20050228
- US 70024205 P 20050719
- US 72522805 P 20051012

Abstract (en)

[origin: WO2006069009A2] X-ray targets made of a single foil alloy, eutectic alloy, compound or intermetallic compound of at least two elements to produce separate line emissions from at least two different elements in the foil, to reduce the reactivity in air or moisture compared to at least one of the said elements producing useful x-rays, or to increase the producing useful x-rays are provided. X-ray targets made by simultaneous deposition of more than one material altering the coefficient of heat transfer compared to layering of said materials are provided. Transmission x-ray tubes configured for use in fluoroscopy by focusing the electron beam onto a small spot on the target or by using a thick target foil to reduce background x-ray noise in measuring an element of interest wherein a second optional thin foil is layered onto the thick target foil to produce excitation energy for the measured element are provided. Transmission x-ray tubes coupled to a single capillary or a bundle of capillaries are also provided.

IPC 8 full level

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CPC (source: EP US)

H01J 35/116 (2019.04 - EP US); **H01J 35/186** (2019.04 - EP); **H01J 2235/081** (2013.01 - EP)

Citation (search report)

See references of WO 2006069009A2

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