

Title (en)

X-RAY GENERATING APPARATUS AND METHOD OF OPERATING AN X-RAY TUBE

Publication

EP 0149337 A3 19860604 (EN)

Application

EP 84308697 A 19841219

Priority

US 57088884 A 19840116

Abstract (en)

[origin: EP0149337A2] An X-ray generating apparatus with a filament energizing transformer (120, 121: 184) mounted inside the X-ray tube housing (11) while a high voltage generating transformer (112) remains outside that housing (11). This arrangement allows a single high magnitude negative polarity input (114) to be routed through the tube housing (11) and coupled to the tube cathode (24). In one embodiment of the invention two cathode filaments (54, 56) are each energized when in use by an associated one of two filament transformers (120, 121) inside the housing (11). Selective energization of one or the other transformers determines which filament is to be energized. In an alternate embodiment a frequency sensing electronic switch (188) chooses which filament (54, 56) to energize depending on the energization frequency input to a single filament transformer (184). A method of operating an X-ray tube is also provided.

IPC 1-7

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IPC 8 full level

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Citation (search report)

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