

Title (en)
X-RAY GENERATOR WITH VOLTAGE FEEDBACK CONTROL

Publication
EP 0146875 A3 19870805 (EN)

Application
EP 84115236 A 19841212

Priority
US 56453883 A 19831222

Abstract (en)
[origin: EP0146875A2] A high-frequency transistor inverter operates from a fixed d.c. source to feed a high-voltage transformer whose output is filtered and rectified for application to an X-ray tube. The output voltage at the tube is sensed and a voltage feedback signal is compared with a voltage-demand signal to obtain a voltage-error signal which is applied to a control network for the inverter. The controller responds to the voltage error signal and to various protective and synchronizing signals to control the individual transistors of the inverter, in a pulse-width-modulated mode, to obtain a desired voltage output to the tube.

IPC 1-7
H05G 1/32; **H02M 7/5395**

IPC 8 full level
H05G 1/32 (2006.01); **H05G 1/46** (2006.01)

CPC (source: EP)
H05G 1/32 (2013.01)

Citation (search report)

- [X] DE 3309469 A1 19830929 - MORITA MFG [JP]
- [Y] JP S58216397 A 19831216 - TOKYO SHIBAURA ELECTRIC CO
- [Y] GB 2005878 A 19790425 - DEN TAL EZ MFG CO
- [A] EP 0047957 A1 19820324 - TOKYO SHIBAURA ELECTRIC CO [JP]
- [A] US 4167670 A 19790911 - INGOLD RAYMOND W
- [A] GB 2100480 A 19821222 - GEN EQUIP MED SA
- [A] PATENT ABSTRACTS OF JAPAN, vol. 5, no. 86 (E-60)[758], 5th June 1981; & JP-A-56 35 399 (HITACHI SEISAKUSHO K.K.) 08-04-1981

Cited by
US4670893A; CN112149044A; CN113067553A; CN104582229A; US4789998A

Designated contracting state (EPC)
DE FR GB NL

DOCDB simple family (publication)
EP 0146875 A2 19850703; **EP 0146875 A3 19870805**; ES 538808 A0 19860601; ES 8707644 A1 19860601; IL 73556 A0 19850228; JP S60221998 A 19851106

DOCDB simple family (application)
EP 84115236 A 19841212; ES 538808 A 19841219; IL 7355684 A 19841120; JP 26873784 A 19841221