

Title (en)
X-ray generator apparatus.

Title (de)
Apparat zur Erzeugung von Röntgenstrahlen.

Title (fr)
Appareil de production de rayons X.

Publication
EP 0405399 A2 19910102 (EN)

Application
EP 90112038 A 19900625

Priority
• JP 15045890 A 19900608
• JP 16964589 A 19890630

Abstract (en)
An output voltage of an A.C. power source (11) is input to an frequency converter (12) and the frequency thereof is increased. A plurality of high voltage transformers (131, 132, ... 13n) of small capacity each of which has a secondary winding of a small number of turns and which are connected in parallel with one another are connected to an output terminal of the frequency converter (12). Outputs of the high voltage transformers (131, 132, ... 13n) are respectively connected to high voltage rectifier circuits (141, 142, ... 14n). Outputs of the high voltage rectifier circuits (141, 142, ... 14n) are serially coupled, the output voltages thereof are added together, and the addition result is applied to an X-ray tube (15). Combinations of the high voltage transformers (131, 132, ... 13n) and the high voltage rectifier circuits (141, 142, ... 14n) are molded into units one or a preset number at a time with solid insulating material including gel insulating material.

IPC 1-7
H05G 1/10; **H05G 1/20**

IPC 8 full level
H05G 1/10 (2006.01); **H05G 1/20** (2006.01)

CPC (source: EP)
H05G 1/10 (2013.01); **H05G 1/20** (2013.01)

Citation (applicant)
• EP 0286678 A1 19881019 - YOKOGAWA MEDICAL SYST [JP]
• US 4317039 A 19820223 - ROMANDI DENES

Cited by
DE102006052285A1; DE4107199A1; US5210780A; WO9509520A1

Designated contracting state (EPC)
DE NL

DOCDB simple family (publication)
EP 0405399 A2 19910102; **EP 0405399 A3 19910605**; **EP 0405399 B1 19950412**; DE 69018525 D1 19950518; DE 69018525 T2 19950810

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