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X-ray generator apparatus.

An output voltage of an A.C. power source (11) is input to a frequency converter (12) and the frequency thereof is increased. A plurality of high voltage transformers ($13_1, 13_2, \dots, 13_n$) 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 ($13_1, 13_2, \dots, 13_n$) are respectively connected to high voltage rectifier circuits ($14_1, 14_2, \dots, 14_n$). Outputs of the high voltage rectifier circuits ($14_1, 14_2, \dots, 14_n$) 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 ($13_1, 13_2, \dots, 13_n$) and the high voltage rectifier circuits ($14_1, 14_2, \dots, 14_n$) are molded into units one or a preset number at a time with solid insulating material including gel insulating material.

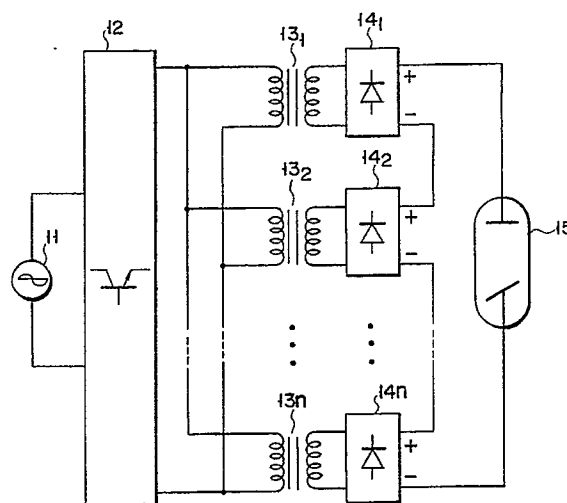


FIG. 5

EP 0 405 399 A3



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EUROPEAN SEARCH REPORT

Application Number

EP 90 11 2038

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
Y	EP-A-0 108 336 (GENERAL ELECTRIC CO.) * Page 2, line 12 - page 3, line 26; page 10, line 1 - page 12, line 5; figures 1B,5 * - - -	1-3,8,10	H 05 G 1/10 H 05 G 1/20
A		4,9	
Y	FR-A-2 431 237 (SIEMENS AG) * Page 3, line 13 - page 4, line 23; figure 1 * & US-A-4 317 039 (Cat. Y,D) - - -	1-3,8,10	
A	GB-A-2 100 480 (GENERAL EQUIPMENT MEDICAL SA) * Page 2, lines 57-93; figure 4 * - - -	1-3,8,10	
A	EP-A-0 286 678 (YOKOGAWA MEDICAL SYSTEMS, LTD) * Page 5, line 15 - page 7, line 22; figures 1,2a,2b * - - -	1,3,8,9	
A	FR-A-2 422 313 (SIEMENS AG) * Page 5, lines 2-23; figure 1 * - - -	1-3,8,10	
A	EP-A-0 315 336 (PICKER INTERNATIONAL, INC.) * Column 3, line 53 - column 5, line 45; figure 1A * - - -	1-3,6,8,9	
A	US-A-4 338 657 (V.N. LISIU et al.) * Column 3, line 43 - column 6, line 16; figure 4 * - - - - -	1,3,6,7	TECHNICAL FIELDS SEARCHED (Int. Cl.5) H 05 G
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of search 11 March 91	Examiner HORAK G.I.
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons ----- &: member of the same patent family, corresponding document			