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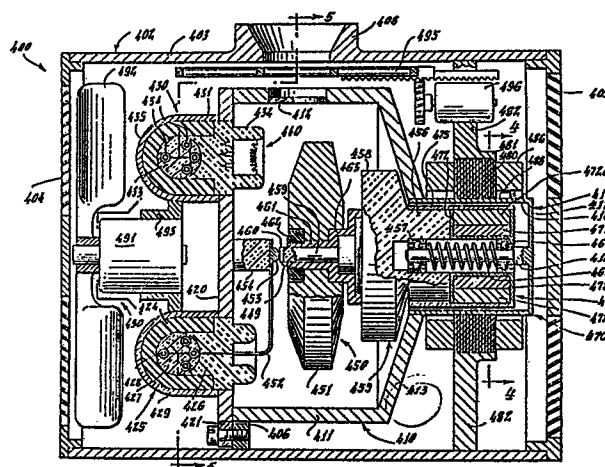
84 Designated Contracting States: **AT BE CH DE FR GB IT LI LU NL SE**

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54 **Rotating anode X-ray tube.**

57 An x-ray tube comprises a generally cylindrical evacuated metal tube envelope (410) having an anode (451) rotatably mounted therein. The tube envelope wall (525) includes ferrous segments (526a-526f) which minimize the gap in the magnetic coupling while permitting a thick and strong tube envelope wall. Drive means (230) includes a DC stator (240) external of the tube envelope acting on an internal rotor (235) mounted to rotate with the anode. Anode drive means also includes a DC stator (480) operating on a rotor (471) having encapsulated rare earth magnets (472a-472h), and a AC stator (570) operating on a squirrel cage rotor (550) through a laminated segmented tube wall (525).





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. ³)
Y	US-A-3 619 696 (V.E. DE LUCIA) * Column 1, line 25 - column 2, line 6; column 3, line 52 - column 4, line 40; figures 1,2 *	1,3,6 10,11 16,22 25-27	H 01 J 35/10 H 05 G 1/66
Y	US-A-4 162 420 (J.K. GRADY) * Column 3, line 65 - column 4, line 58; figure 2 *	1	
A	US-A-4 225 787 (J.S. SHAPIRO AND W.P. HOLLAND) * Column 2, lines 37-62; column 5, line 41 - column 6, line 2; figures 1-3 *	1,13	
A	US-A-3 963 930 (L.L. FIOCCA et al.) * Column 2, lines 3-38 *	1	TECHNICAL FIELDS SEARCHED (Int. Cl. ³) H 01 J 35/00 H 05 G 1/00
A	GB-A-1 513 596 (HITACHI LTD.) * Page 2, lines 3-28, 59-105; figures 1,3 *	1	
A	US-A-3 518 434 (D.F. LOMBARDO) * Abstract; column 2, lines 13-33; figures 1,3 *	1	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 31-08-1984	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	