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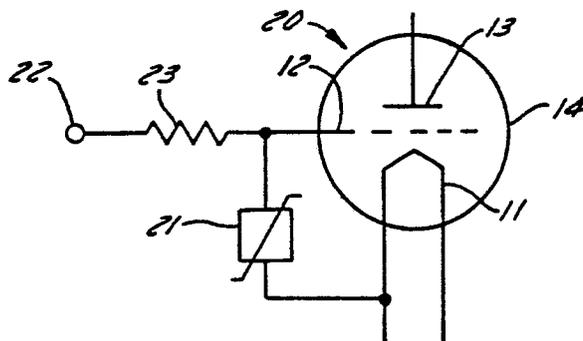
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54 **Weld-resistant X-ray tube.**

57 Disclosed is an X-ray generating tube having a filament, a grid and an anode. Connected between the grid and filament is a nonlinear resistor for preventing the relative voltage therebetween from exceeding a preselected limit. Connected in series with the grid is a resistor for limiting current flow thereto. Together, the nonlinear resistor and the grid resistor help prevent grid filament shorts in the X-ray tube.



**FIG. 4**

**EP 0 236 573 A3**



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. 4)
A	US-A-3 808 559 (R.K. MacLACHLAN et al.) * Column 1, line 1 - column 2, line 68; column 3, line 49 - column 6, line 37; column 9, line 52 - column 10, line 27; figure 2 * ---	1,5,10	H 05 G 1/10 H 05 G 1/54
A	US-A-3 109 093 (R.A. ARRISON et al.) * Column 4, lines 4-43; figures 2,4 * ---	1,10	
A	O. LIMANN: "Funktechnik ohne Ballast", 15. Auflage, 1979, Franzis-Verlag, München, DE * page 64; pages 97-98; figures 3.12,5.19 - 5.21 * ---	1,2,5,6 ,10	
A	TOUTE L'ELECTRONIQUE, no. 479, December 1982, pages S33-S38, Paris, FR; G. PARIS: "L'écrêtage des surtensions transitoires sur les réseaux basse tension" * Page S34, column 3 - page S36, column 1; page S38, column 1 - column 2; figures 9,14 * ---	1-3,5-7 ,10	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
P,A	PATENT ABSTRACTS OF JAPAN, vol. 10, no. 317 (E-449)[2373], 28th October 1986; & JP-A-61 126 799 (HITACHI MEDICAL CORP.) 14-06-1986 * Whole abstract * ---	1,5,10	H 05 G H 01 J H 02 H
A	US-A-2 502 269 (A. NEMET) * Column 3, line 57 - column 4, line 2; figure 2 * -----	1,5,10	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 26-04-1988	Examiner GNUGESSER H.M.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p> <p>&amp; : member of the same patent family, corresponding document</p>			