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(54) **Electron gun arrangements.**

(57) An electron gun arrangement which is particularly suitable for use in travelling wave tubes includes a substantially cylindrical ceramic body (20) which partly defines a vacuum envelope. The body (20) surrounds an electrode assembly constituted by cathode (21), grids (22, 23 and 24) and an anode (25). The leads to the grids and cathode are extensive in a generally longitudinal axial direction at the end of the body (20) remote from the anode (25), electrical connection being made via pins (30-33) and metallised apertures (26-29) extensive longitudinally through the wall of the body (20). The internal diameter of the body (20) may be stepped to define ridges (38-40) to which supports for parts of the electrode assembly are fixed.

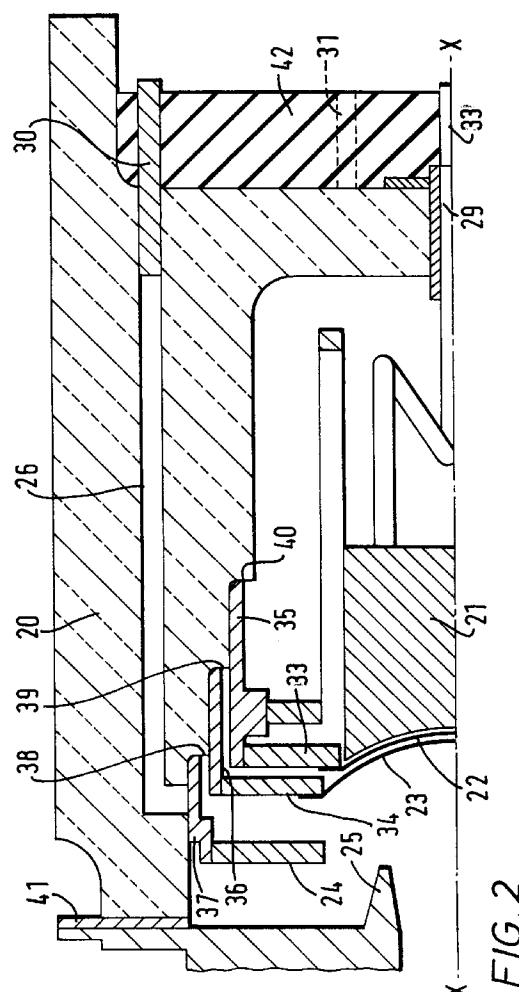


FIG. 2



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EUROPEAN SEARCH REPORT

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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)
X Y A	FR-A-1 500 573 (ELECTRIC & MUSICAL INDUSTRIES LIMITED) * page 2, left column, line 2 - line 8 * * page 3, left column, last paragraph - page 4, left column, line 25; figures 4,5 * ---	1-5, 7-11,13 14,15 6,12	H01J23/065 H01J25/34 H01J1/88 H01J3/02
Y	EP-A-0 379 403 (THOMSON TUBES ELECTRONIQUES) * abstract; figure 2 * ---	1-5, 7-11, 13-15	
Y	NHK LABORATORIES NOTE, no.306, September 1984, TOKYO JP pages 2 - 11 Y. MORISHITA ET AL. 'Development of 200 W TWT's for broadcast satellites' * figure 9 * ---	1-5, 7-11, 13-15	
A	PATENT ABSTRACTS OF JAPAN vol. 7, no. 99 (E-172) (1244) 27 April 1983 & JP-A-58 019 838 (NIPPON DENKI K.K.) 5 February 1983 * abstract * ---	1	TECHNICAL FIELDS SEARCHED (Int.Cl.5) H01J
A	PATENT ABSTRACTS OF JAPAN vol. 6, no. 21 (E-93) (899) 6 February 1982 & JP-A-56 141 139 (TOKYO SHIBAURA DENKI K.K.) 4 November 1981 * abstract * --- -/-	1,2,4,5, 7,9,10, 12	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 1 December 1994	Examiner Martín Vicente, M
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 I : 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			

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EUROPEAN SEARCH REPORT

Application Number
EP 93 30 7233

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)
A	FR-A-1 168 582 (COMPAGNIE FRANÇAISE THOMSON-HOUSTON) * page 3, right column, line 8 - line 9; figure 3 * -----	1,7-10, 12	
			TECHNICAL FIELDS SEARCHED (Int.Cl.5)
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