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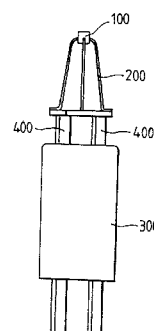
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(54) **Direct-heating-type dispenser cathode structure.**

(57) A direct heating type-cathode structure is provided with filaments (200) which are secured to at least three points on the side surfaces of a porous pellet (100) formed of tungsten or molybdenum, and the cathode material thereof includes an alkaline earth metal oxide of barium. The thus-structured direct-heating-type cathode structure requires a temperature of only 950°C to 980°C to obtain the current density of 10A/cm² and is suitable for use in a color cathode ray tube and specifically in wide-screen televisions and industrial cathode ray tubes.

FIG. 14





European Patent
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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.6)
X	US-A-3 758 808 (HELD W ET AL) 11 September 1973 * the whole document *	1-4,7	H01J1/15 H01J1/28
Y	---	5,6,8-11	
Y	US-A-3 273 003 (DIETRICH W) 13 September 1966 * figures * * column 1, line 56 - column 2, line 27 *	5	
Y	US-A-3 783 330 (NAKANISHI H ET AL) 1 January 1974 * figure 1 *	6	
Y	US-A-4 007 393 (VAN STRATUM ANTONIUS JOHANNES ET AL) 8 February 1977 * figure 2 * * column 2, line 47 - line 56 *	10	
Y	EP-A-0 333 369 (VARIAN ASSOCIATES) 20 September 1989 * column 3, line 16 - line 56 *	8,9	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
Y	US-A-3 384 511 (MAURER DEAN W ET AL) * example 2 *	11	H01J
A	US-A-3 689 794 (ESDONK JOHANNES VAN) 5 September 1972 * figure 2 * * column 2, line 25 - line 35 *	4	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 21 April 1995	Examiner Colvin, G
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			

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