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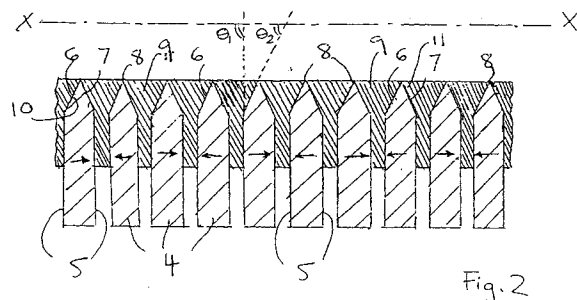
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(54) **Magnet arrangements.**

(57) In a magnet arrangement suitable for providing PPM focusing, cylindrical magnets 4 have inclined inner faces 6 and 7 meeting at an edge 8. Pole pieces 9 are contiguous with the inclined faces 6 and 7 to provide a relatively large field within the volume enclosed by the arrangement. Preferably, the magnet is of a type II magnetic material.





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EUROPEAN SEARCH REPORT

Application Number
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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)
A	US-E-33 736 (CLARKE) 5 November 1991 * abstract; figures 3,4 * * column 2, line 1 - line 41 * ---	1,7,17, 18,20-22	H01J23/087 H01F7/02
A	JOURNAL OF APPLIED PHYSICS, vol. 63, no. 8, Part IIB, 15 April 1988 WOODBURY, NY, USA, pages 3991-3992, J. P. CLARKE AND H. A. LEUPOLD 'Field enhancement in travelling wave tubes with tapered pole pieces' * the whole document * ---	1,7,9, 11,17, 18,20-22	
A	US-A-3 013 173 (STURROCK) 12 December 1961 * column 5, line 42 - line 58; figure 5 * ---	1-4,7, 13-15, 20-22	
A	GB-A-2 046 011 (THOMSON CSF) 5 November 1980 * figures * ---	1-4,6,7, 11,13, 14,18, 20,22	TECHNICAL FIELDS SEARCHED (Int.Cl.5) H01F H01J
A	US-A-5 014 028 (LEUPOLD HERBERT A) 7 May 1991 * abstract; figures 2,3 * * column 1, line 10 - line 20 * * column 2, line 56 - column 3, line 22 * * column 3, line 34 - line 47 * * column 5, line 10 - line 11 * --- -/--	1,6-8, 13,14, 17,18, 20,22	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 18 August 1995	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		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	

EPO FORM 1503 (01.82) (POM/COI)



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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.5)
D,A	R. J. PARKER 'Advances in permanent magnetism' 1990 , WILEY & SONS , NEW YORK, USA * page 40, line 12 - page 42, line 2 * -----	16	
			TECHNICAL FIELDS SEARCHED (Int.Cl.5)
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