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54 **Waveguide apparatus.**

57 Waveguide apparatus in which a dielectric substrate 20 is placed between sections of a waveguide 24. The dielectric substrate 20 incorporates slots 21 arranged in a linear fashion and having extended portions B and C there being a narrow gap 23 between adjacent slots. This enables accurate control of radiation losses through the dielectric layer sandwiched between the sections of the waveguide to be achieved.

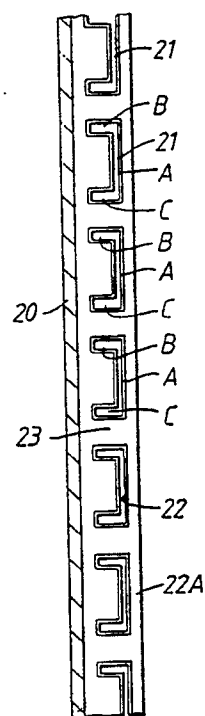


Fig. 5A.



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	GB-A-875245 (COMPAGNIE FRANCAISE THOMSON-HOUSTON) * the whole document *	1-4, 11	H01P3/12 H01P11/00 H01Q21/00
A	BE-A-772078 (THOMSON-CSF) * page 2, lines 23 - 32; figures 1, 2 *	1-4, 11	
A	US-A-3031666 (BUTLER) * column 3, lines 22 - 75 * * column 4, lines 14 - 18; figures 1-3, 6 *	1, 5, 7	
A	PATENT ABSTRACTS OF JAPAN vol. 6, no. 119 (E-116)(997) 03 July 1982, & JP-A-57 48804 (NIPPON DENSHIN DENWA KOSHA) 20 March 1982, * the whole document *	1	
A	US-A-4052683 (VAN HEUVEN ET AL.) * column 3, lines 36 - 68; figures 1-3 *	1	
A	RADIO FERNSEHEN ELEKTRONIK. vol. 35, no. 11, November 1986, BERLIN DD pages 728 - 731; W.SENF ET AL.: "Mikrowellenverstärker in Finleitungstechnik" * page 728, left-hand column, line 1 - page 729, left-hand column, line 21 * * page 729, right-hand column, line 11 - page 730, left-hand column, line 9; figures 1, 5 *	10, 12	TECHNICAL FIELDS SEARCHED (Int. Cl.5) H01Q H01P
A	WO-A-8702192 (ALLIED CORPORATION) * page 4, lines 2 - 14; figure 1 *	13-15	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 03 JULY 1990	Examiner DEN OTTER A.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 F : 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	