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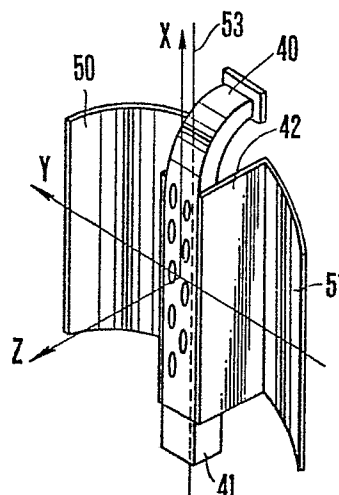
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54 **Shaped beam antenna.**

57 A shaped beam antenna comprises an array antenna having a planar surface (40) on which a plurality of radiating elements are arranged, and a main reflector disposed behind with respect to the radiating direction of the array antenna. The main reflector comprises a plurality of partial cylindrical (50,51) or planar (42) reflector segments.

Each radiating element is disposed so that its excitation amplitude is symmetrical with respect to the Y-Z plane and its excitation phase is antisymmetrical with respect to the Y-Z plane, whereby a radiation beam formed by the main reflector is symmetrical with respect to the Z-axis on the Y-Z plane and is asymmetrical with respect to the Z-axis on said X-Z plane. Thus, with this antenna, a good beam shaping performance and an excellent cross polarization discrimination can be obtained.



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EUROPEAN SEARCH REPORT

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EP 85 11 1057

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)
X	US-A-3 604 010 (L. SCHWARTZ et al.) * Column 3, lines 3-36; column 5, line 18 - column 6, line 66; figures 7,8; column 7, lines 6-30; figure 9; column 11, lines 7-45; figure 14; column 14, lines 63-75; figure 25 *	1,12	H 01 Q 19/17 H 01 Q 21/06
A	---	2-7,10	
A	ELECTRONICS AND COMMUNICATIONS IN JAPAN, vol. 54-B, no. 11, November 1971, pages 34-39; H. YOKOI et al.: "Low-sidelobe paraboloidal antenna with microwave absorber" * Whole document *	1,9-11	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
A	US-A-4 464 663 (F. LALEZARI et al.) * Column 1, line 28 - column 2, line 54 *	1,13	H 01 Q
A	GB-A-2 044 006 (DECCA) * Whole document *	1,7,12	
A	US-A-3 137 001 (M.J. MORAN) * Figures 1,2 *		

The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 09-03-1987	Examiner ANGRABEIT F.F.K.
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			