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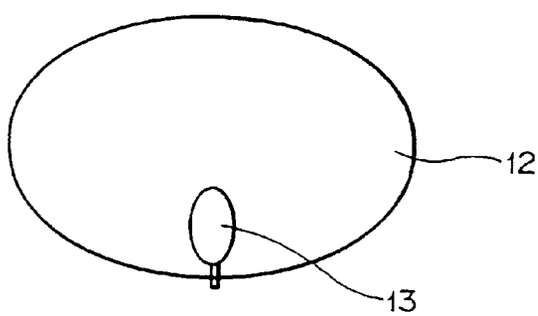
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(54) Primary horn for parabolic-reflector antenna.

(57) A parabolic-reflector antenna has a primary horn (13) including first (21), second (22), and third (23) hollow portions. The first hollow portion (21) has an elliptical aperture on one end thereof and a circular cross section on an opposite end thereof, and is progressively tapered away from the elliptical aperture. The second hollow portion (22) has a circular cross section and a constant diameter, and is joined to the opposite end of the first hollow portion (21). The third hollow portion (23) has a circular cross section on one end thereof and a circular cross section on an opposite end thereof. The third hollow portion (23) is joined to the second hollow portion (22), and is progressively tapered away from the second hollow portion (22). The parabolic-reflector antenna also includes a parabolic reflector (12) having an elliptical aperture whose major axis is perpendicular to the major axis of the elliptical aperture of the primary horn (13).

FIG. 3



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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	PATENT ABSTRACTS OF JAPAN vol. 7, no. 40 (E-159) (1185) 17 February 1983 & JP-A-57 193 105 (NIPPON DENSHIN DENWA KOSHA) 27 November 1982 * abstract *	1-4	H01Q19/13 H01Q13/02
A	US-A-4 731 616 (FULTON ET AL.) * abstract; figures 2,6 * * column 3, line 5 - line 10 *	6	
A	GB-A-1 525 514 (RUDGE ET AL.) * figures 1,5A * * page 2, line 97 - line 100 *	8,10	

TECHNICAL FIELDS SEARCHED (Int.Cl.5)

H01Q
H01P

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
BERLIN	21 June 1994	Danielidis, S

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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