

(11) Publication number: 0 543 664 A3

#### (12)

### **EUROPEAN PATENT APPLICATION**

(21) Application number: 92310635.5

(22) Date of filing: 20.11.92

61 Int. Cl.<sup>5</sup>: **H01Q 1/24**, H01Q 19/02,

H01Q 15/14

(30) Priority: 21.11.91 JP 331596/91

21.11.91 JP 331597/91 21.11.91 JP 331598/91 28.11.91 JP 338040/91 04.02.92 JP 47582/92 10.08.92 JP 232684/92

(43) Date of publication of application : 26.05.93 Bulletin 93/21

84 Designated Contracting States : **DE GB NL** 

88 Date of deferred publication of search report : 22.09.93 Bulletin 93/38

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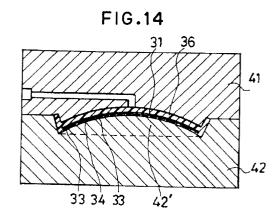
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(54) Parabolic antenna and method of manufacturing reflector body of the same.

A reflector body (43) for a parabolic antenna is fabricated by preparing a sheet-like reflector section (35) by providing a metal material (33) as a reflector on one surface of a support film (31), cutting the reflector section to a size appropriate for the size of the antenna to be obtained and molding an antenna base (36) of a synthetic resin integral with the support film of said cut sheet-like reflector section in a pair of upper and lower dies (41, 42) with the cut sheet-like reflector section inserted between the dies.





## **EUROPEAN SEARCH REPORT**

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	DOCUMENTS CONSI	DERED TO BE RELEVAN	1T		
Category	Citation of document with in of relevant page	dication, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)	
(	DE-U-9 002 641 (SCH * the whole documen		1,2	H01Q1/24 H01Q19/02 H01Q15/14	
(	DE-U-9 001 820 (HAG * page 5, line 20 - * page 8, line 15 -		1,2	NO1Q13/14	
4	pages 182 - 190 PS. KILDAL ET AL. cross polarization of struts in reflector curves' * page 182, left co *	ruary 1988, NEW YORK US 'Losses,sidelobes, and caused by feed-support			
	AP-S INTERNATIONAL SYMPOSIUM ON ANTENNAS AND PROPAGATION; June 15-19, 1987, Blacksburg US; IEEE, New York, US, 1987 R.D. GRAGLIA et al.: "Effects of dielectric support struts on the radiation pattern of reflector antennas" pages 752-755 *page 752, lines 1-10; page 752, lines 26-32; figure 1*			TECHNICAL FIELDS SEARCHED (Int. Cl.5)	
4		USHIKI KAISHA TOSHIBA) - line 32; figures 1,2 	2		
	The present search report has b Place of search THE HAGUE	een drawn up for all claims  Date of completion of the search  13 JULY 1993		Examiner DEN OTTER A.M.	
X : par Y : par doc	CATEGORY OF CITED DOCUMER ticularly relevant if taken alone ticularly relevant if combined with and tument of the same category	NTS T: theory or princ E: earlier patent of after the filing other D: document cited L: document cited	ocument, but pub date I in the applicatio for other reasons	e invention Slished on, or In	
A: technological background O: non-written disclosure P: intermediate document			& : member of the same patent family, corresponding document		



## **EUROPEAN SEARCH REPORT**

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Category	Citation of document with in of relevant pa	ndication, where appropriate, ssages	Releva to clai	
X	GB-A-1 546 645 (MULLARD LTD)  * page 2, line 110 - line 117 *  * page 3, line 122 - page 4, line 55;  figures 1,2 *		3,17	
Y A			4,5 8,21,	24
Y	GB-A-2 120 854 (FAS * page 1, line 46 -		4,5	
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X	PATENT ABSTRACTS OF JAPAN vol. 10, no. 141 (E-406)(2198) 24 May 1986 & JP-A-61 004 304 ( BRIDGESTONE K.K. ) 10 January 1986 * abstract *			
A	PATENT ABSTRACTS OF JAPAN vol. 10, no. 91 (E-394)(2148) 9 April 1986 & JP-A-60 235 503 ( SHOWA DENKO K.K. ) 22 November 1985 * abstract *			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
A	ELECTRONICS LETTERS vol. 24, no. 6, 17 March 1988, STEVENAGE GB pages 318 - 319 B. HUDER ET AL. 'Flat printed reflector antenna for mm-wave applications' * figures 1,2 *			
A	CA-A-1 177 575 (THO * page 5, line 2 -		4 *	
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X:par Y:par doc	CATEGORY OF CITED DOCUME ticularly relevant if taken alone ticularly relevant if combined with an unert of the same category hadden, background	E: earlier p after the other D: documen L: documen	r principle underlyicatent document, bu filing date nt cited in the applitic cited for other re	it published on, or ication asons
O: no	hnological background n-written disclosure ermediate document		of the same patent	family, corresponding



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ategory	Citation of document with indica of relevant passage		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
1	PATENT ABSTRACTS OF JAvol. 7, no. 284 (E-2171983 & JP-A-58 161 404 (DEK.K.) 26 September 19 abstract *	7)(1429) 17 December EIETSUKUSU ANTENA	20,22,23	
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	The present search report has been			Examiner
	Place of search THE HAGUE	Date of completion of the search 13 JULY 1993		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		E : earlier patent after the filin D : document cite L : document cite	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  A: member of the same patent family, corresponding document	

EPO FORM 1503 03.82 (P0401)



CLAIMS INCURRING FEES				
The o	resent	European patent application comprised at the time of filing more than ten claims.		
	_	All claims fees have been paid within the prescribed time limit. The present European search report has been		
		drawn up for all claims.		
		Only part of the claims fees have been paid within the prescribed time limit. The present European search		
		report has been drawn up for the first ten claims and for those claims for which claims fees have been paid,		
		namely claims:		
		No claims fees have been paid within the prescribed time limit. The present European search report has been		
		drawn up for the first ten claims.		
	1 4 (	CK OF UNITY OF INVENTION		
The S		Division considers that the present European patent application does not comply with the requirement of unity of		
		d relates to several inventions or groups of inventions,		
name	ıly:			
		See sheet -B-		
	O-1	All further search fees have been paid within the fixed time limit. The present European search report has		
E	X	been drawn up for all claims.		
Г	7	Only part of the further search fees have been paid within the fixed time limit. The present European search		
L		report has been drawn up for those parts of the European patent application which relate to the inventions in		
		respect of which search fees have been paid,		
		namely claims:		
Γ		None of the further search fees has been paid within the fixed time limit. The present European search report		
•		has been drawn up for those parts of the European patent application which relate to the invention first		
		mentioned in the claims,		
I		namely claims:		



European Patent Office

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# LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

2. Claims 3-25 : Method of manufacturing an antenna reflector