

Publication number:

0 142 233

A3

12

EUROPEAN PATENT APPLICATION

21) Application number: 84306021.1

(51) Int. Cl.4: H 01 Q 11/06

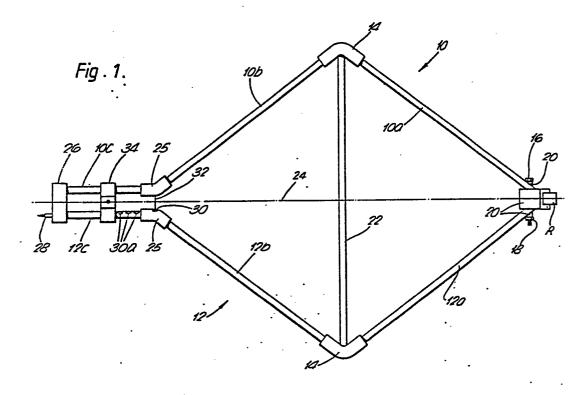
(22) Date of filing: 03.09.84

(30) Priority: 03.09.83 GB 8323691

- (43) Date of publication of application: 22.05.85 Bulletin 85/21
- (88) Date of deferred publication of search report: 06.08.86
- Designated Contracting States:
 AT BE CH DE FR GB IT LI LU NL SE
- (1) Applicant: UNIVERSITY OF EXETER
 Northcote House The Queen's Drive
 Exeter Devon EX4 4QJ(GB)
- (2) Inventor: May, Eric John Patrick 1, Belvidere Road Pennsylvania Exeter Devon(GB)
- (4) Representative: Calderbank, Thomas Roger et al, MEWBURN ELLIS & CO. 2/3 Cursitor Street London EC4A 1BQ(GB)

(54) Rhombic aerials.

bent to form a rhombus. At one end the arms (10, 12) bent to form a rhombus. At one end the arms (10, 12) are connected together by a rigid interconnection (16, 18, 20) whilst conductive extensions (10c, 12c) extend from the other ends of the arms (10, 12). A co-axial cable (28) enters one extension (12c) and extends within that extension (12c) to a point at which its outer conductor is connected to one arm 12 and its inner conductor is connected to the other arm (10). The extensions (10c, 12c) are electrically connected by a movable slide (34) so that they form a balun. This enables the reactance of the aerial to be tuned to match the feed cable. Preferably the position of the slide (34) is adjustable so that the aerial may be tuned to a particular frequency band. The extensions may extend outwardly of the rhombus or may extend inwardly e.g. from one end of an arm to the other.







EUROPEAN SEARCH REPORT

EP 84 30 6021

ategory		indication, where appropriate, intipassages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
Y	AUDIO, no. 1, Jan pages 24,26,28,29 Ohio, US; R. KAUF rhombic FM antenn * Page 28; figure	, Columbus, MAN: "Try a a"	1,2	H 01 Q 11/06
Y	R.A. SMITH: "Aeri and decimetre way 1949, pages 130-1 University Press, * Page 132; figur	ve-lengths", 135, Cambridge . Cambridge, GB.	1,2	
. A	DE-B-1 027 261 (* Page 2, lines 2	- (SIEMENS) 25-28; figure 2 *	1,4	
A	GB-A- 490 192 (TELEFUNKEN) * Whole document *		1,9	TECHNICAL FIELDS SEARCHED (Int. Cl.4)
				H 01 Q
	·			
	·			
 	The present search report has b	een drawn up for all claims		
l '		Date of completion of the sear 28-04-1986		Examiner ABEIT F.F.K.
Y : p	CATEGORY OF CITED DOCL particularly relevant if taken alone particularly relevant if combined we document of the same category echnological background non-written disclosure	aπer ti ith another D : docum	or principle unde patent document ne filing date nent cited in the a nent cited for othe	rlying the invention , but published on, or oplication r reasons