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(54) **Dual polarisation antennas**

(57) A dual polarisation antenna has a feed network comprising two feed channels 15, 16 which divide into feed lines 15a, 15b, 16a, 16b respectively coupled to

four slots 13a, 13b, 14a, 14b. The four slots are in registration with and couple to four patches 10a, 10b, 12a, 12b which are in turn coupled to a radiating coating 5.

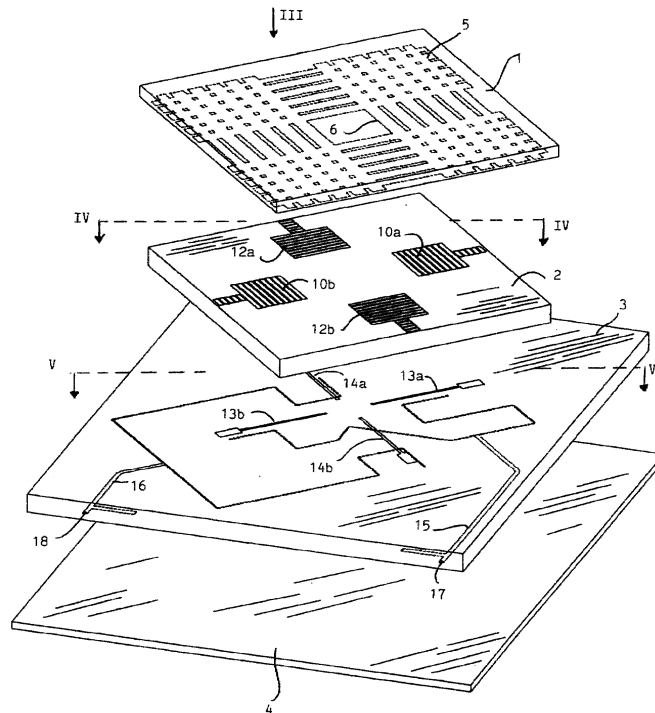


Figure 2

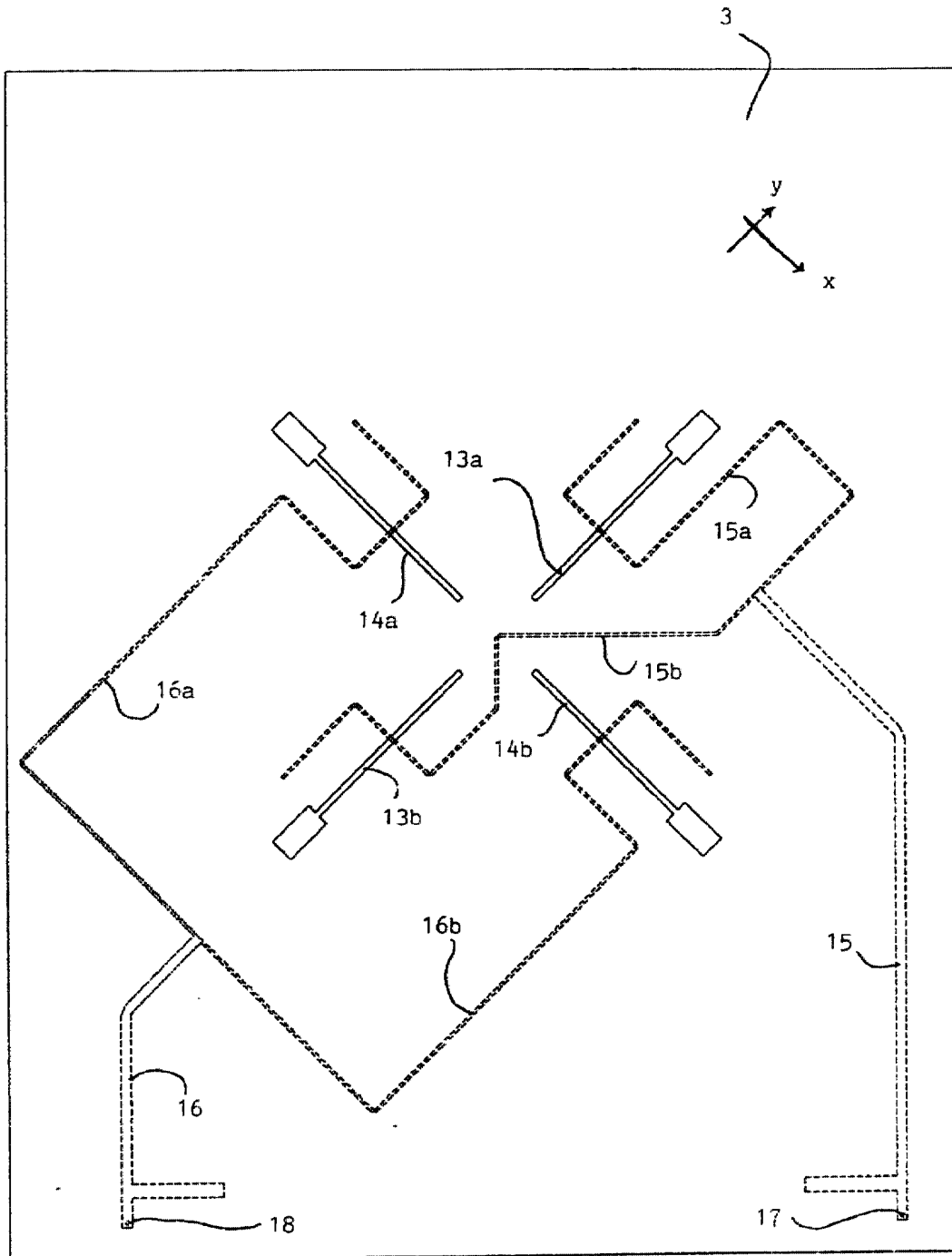


Figure 5



European Patent Office

EUROPEAN SEARCH REPORT

Application Number
EP 99 31 0446

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.7)
A	US 4 903 033 A (TSAO CHICH-HSING ET AL) 20 February 1990 (1990-02-20) * column 3, line 57 - column 7, line 16; figures 1-6 *	1	H01Q9/04 H01Q21/24 H01Q21/06
A	--- GARDIOL F E ET AL: "BROADBAND PATCH ANTENNAS - A SSFIP UPDATE" IEEE ANTENNAS AND PROPAGATION SOCIETY INTERNATIONAL SYMPOSIUM,US,NEW YORK, IEEE, 21 July 1996 (1996-07-21), pages 2-5, XP000782134 ISBN: 0-7803-3217-2 * page 3-4 *	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H01Q
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	16 May 2001	Ribbe, J	
CATEGORY OF CITED DOCUMENTS		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	
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			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 99 31 0446

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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16-05-2001

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 4903033 A	20-02-1990	NONE	

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82