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Publication number:

**0 308 830
A3**

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: **88115247.4**

(51) Int. Cl.⁵: **H01Q 3/26**

(22) Date of filing: **16.09.88**

(30) Priority: **22.09.87 JP 238414/87**

(43) Date of publication of application:
29.03.89 Bulletin 89/13

(84) Designated Contracting States:
DE FR GB

(88) Date of deferred publication of the search report:
02.05.90 Bulletin 90/18

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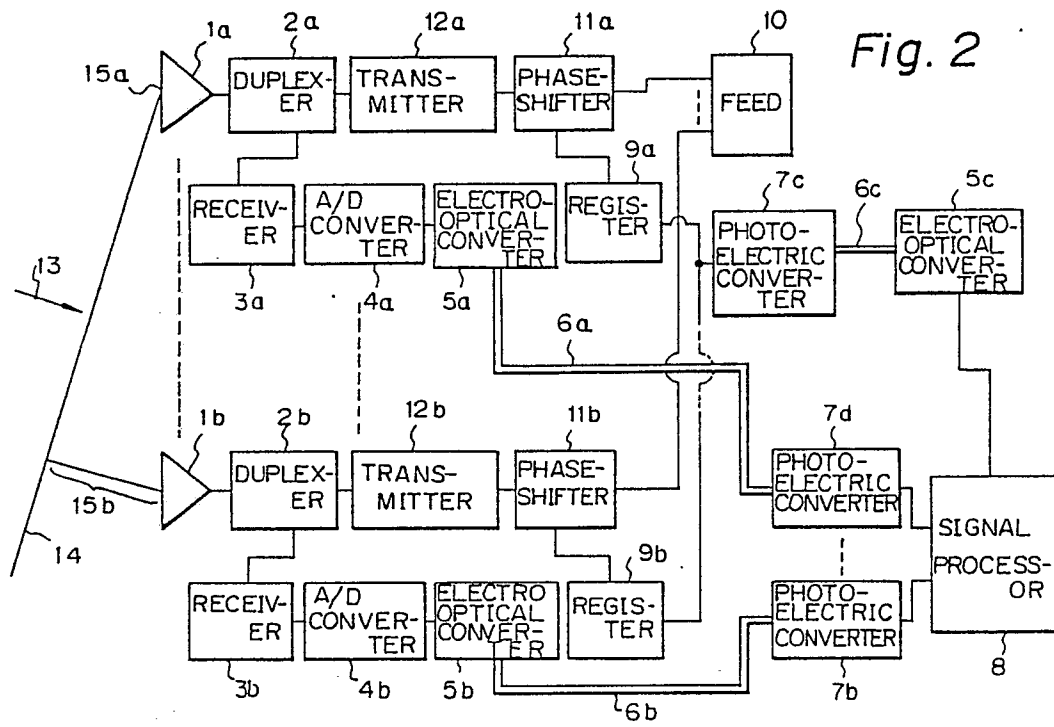
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(54) **Antenna system.**

(57) An antenna system for transmitting radio waves in the same direction as the direction of arrival of incoming radio waves. The arrival direction is detected by a fast Fourier transform processor (8). The transmitting direction is adjusted by phase-shifting (11) radio waves from a feeder (10) on the basis of the detected arrival direction. Further, signals in the

system are transmitted through optical fibers (6) in order to decrease the processing time.





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)
A	US-A-4 350 982 (F. C. ALPERS) * figure 5; column 1, lines 38-42; column 6, line 33 - column 7, line 31 * ---	1,5-7	H 01 Q 3/26
A	GB-A-2 072 986 (STANDARD TELEPHONES AND CABLES LTD.) * figures 1,2; page 3, lines 11-17 * ---	1,2,8	
A	IEEE MILITARY COMMUNICATIONS CONFERENCE Conference Record vol. 2 of 3, 5-9 October 1986, pages 33.5.1-33.5.5, Monterey, California, USA; V. CONTARINO et al.: "Fiber optic communication links for millimeter wave phased array antennas" * page 33.5.1: introduction * ---	3,4	
A	GB-A-2 167 626 (RAYTHEON CO.) * figure 2; abstract; page 2, lines 116-120 * ---	1,5	
A	US-A-3 394 374 (W.J. WEISS) * figure 1; column 1, line 60 - column 2, line 30 * -----	1,5	TECHNICAL FIELDS SEARCHED (Int. Cl.4) H 01 Q G 01 S H 04 B
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 13-12-1989	Examiner DANIELIDIS S
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			