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(54) **System and procedure for the control of the antenna of a mobile radio telephone network**

(57) System for the control of single antennae or antenna arrays (1) of a mobile radio telephone network, which are installed on fixed bases (2) through a couple of supports (10, 11) rotating around a substantially horizontal axis and a substantially vertical axis, in which the form and dimensions of the coverage field (4) of each antenna (1) depend on the vertical pointing angle (ϑ) and on the horizontal pointing angle (ϕ). This system includes at least one central electronic processor connected through bi-directional lines (20) to a plurality of peripheral electronic processors (17) connected in their turn through bi-directional lines to one or more servo-mechanisms (13, 15) installed on said fixed bases (2), in which the mobile component of one of said servo-mechanisms (13, 15) is cinematically coupled to one of said supports (10, 11) of the antennas (1) and is operated by an actuator (e. g. a reduction gear) according to electrical signals transmitted by said central electronic processor through said peripheral processors (17), said electric signals corresponding to the variation of the vertical pointing angle (ϑ) and/or of the horizontal pointing angle (ϕ) of the antennas (1) themselves. The present invention relates also to a control procedure implemented through said system.

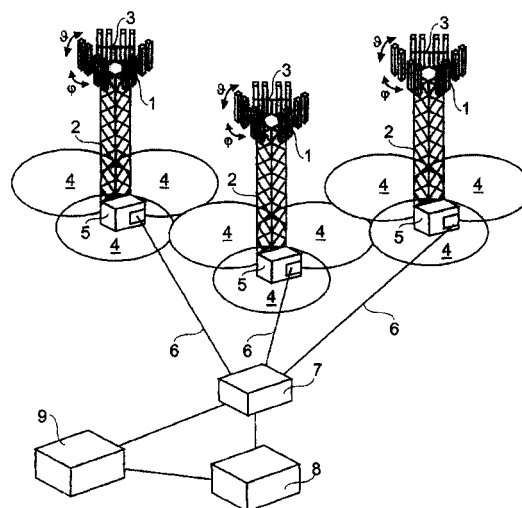


Fig. 1

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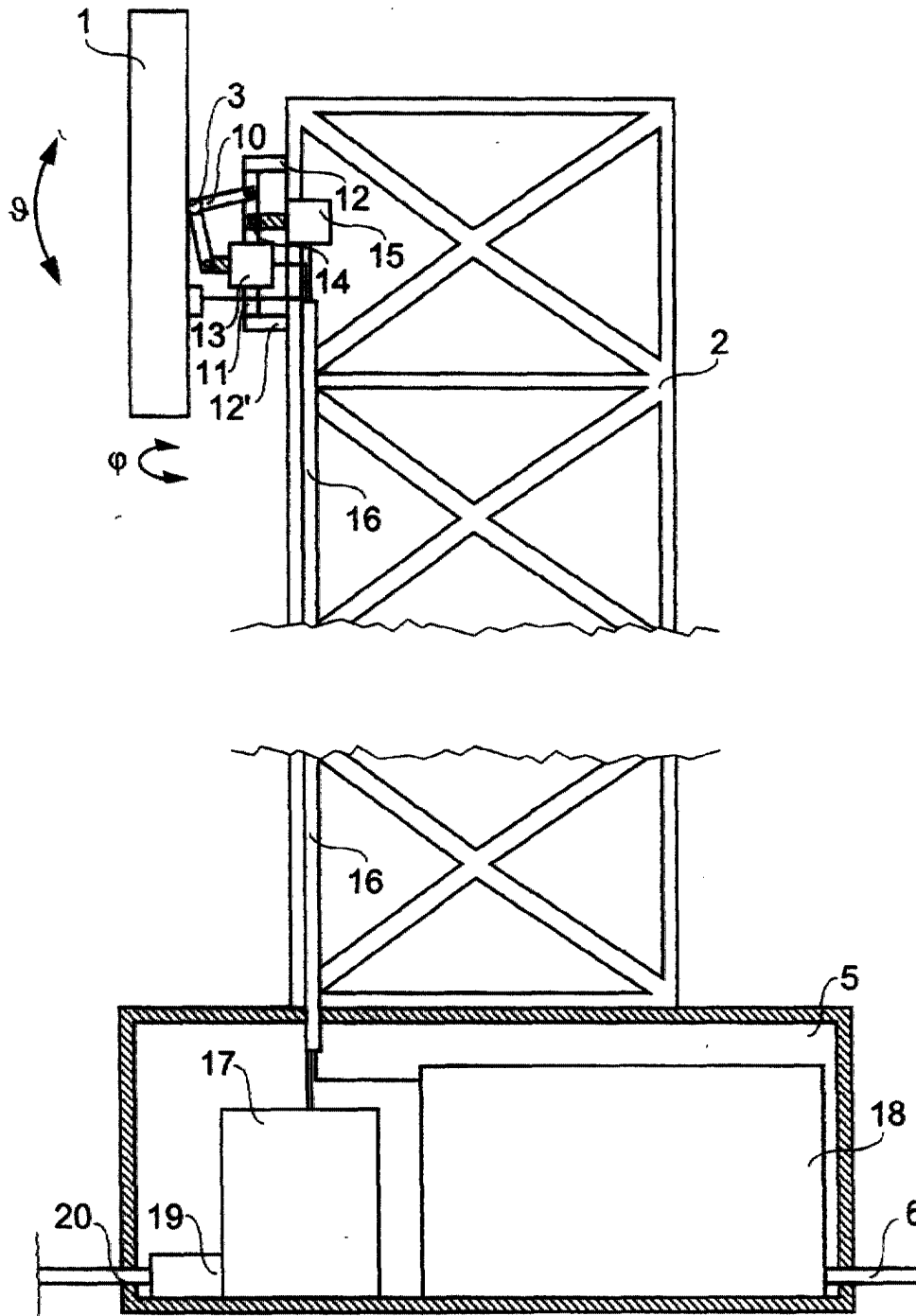


Fig. 2



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EUROPEAN SEARCH REPORT

Application Number
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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.7)
X	WO 93 12587 A (NOKIA TELECOMMUNICATIONS OY) 24 June 1993 (1993-06-24) * page 5, line 5 - page 8, line 6; figure 3 *	1-3,5-12	H01Q3/08 H01Q1/24 H01Q1/12 H01Q3/00
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A	US 5 214 364 A (PERDUE TERRY A ET AL) 25 May 1993 (1993-05-25) * column 3, line 40-63 * * column 24, line 45 - column 25, line 18 * * column 28, line 18-36; claims 1,17-22; figures 11,15,18 *	8-12	
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			H01Q H04Q
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 16 January 2002	Examiner Van Dooren, G
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

EPO FORM 1503 03 92 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
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