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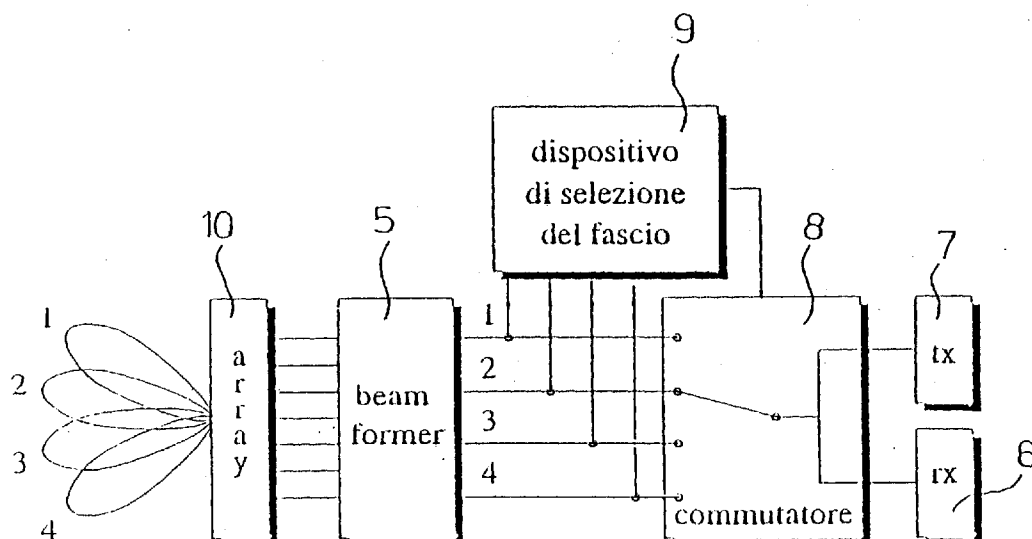
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(54) **Method for the automatic selection of one beam among those formed by a multibeam antenna, in particular for radiomobile systems**

(57) The invention relates to a method for the automatic selection of a beam among those set up by a multi-beam antenna, in particular for radiomobile systems comprising an equipment for the reception of radio frequency signals provided with an array (10) of radiant and/or receiving elements, a beam former (5) connected

downstream of the array and a device for the selection (9) of the best beam linked to the beam former (5). The selection of the best beam is carried out by the selection device (9) choosing the beam presenting the minimum value of an estimation of the decoding error probability of the received signals (Fig. 1).

**FIG. 1****EP 0 817 308 A3**



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EUROPEAN SEARCH REPORT

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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.6)
X	US 5 303 240 A (BORRAS JAIME A ET AL) * column 4, line 49 - column 5, line 32; figure 6 *	1	H01Q3/26 H04Q7/36 H01Q25/00 G01S1/00
E	WO 97 44978 A (NOKIA TELECOMMUNICATIONS OY ;PALLONEN JORMA (FI)) * page 5, line 13 - page 6, line 12 * * page 7, line 17 - page 8, line 2; claims 1-6; figures 1,3 *	1	
P,X	US 5 590 399 A (MATSUMOTO TADASHI ET AL) * column 3, line 48 - column 4, line 60 * * column 7, line 30-61; claims 1-5; figure 8 *	1,2	
P,X	WO 96 23329 A (HAZELTINE CORP) * page 11, line 1 - page 12, line 1; figures 1,3,4 *	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			H04L H01Q H04Q H04B
Place of search		Date of completion of the search	Examiner
THE HAGUE		18 February 1998	Van Dooren, G
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			

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