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(54) Title: SYSTEM AND METHOD FOR DETERMINING GEOLOCATION OF A SIGNAL SOURCE

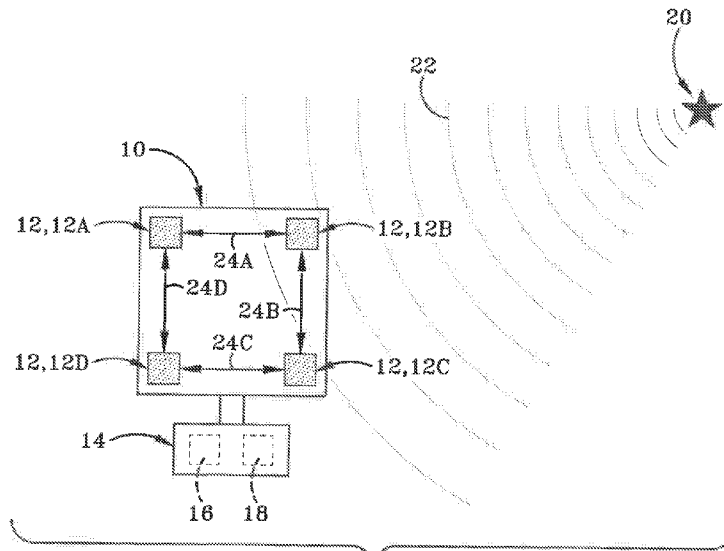


FIG. 1

(57) Abstract: An antenna receiver has antenna elements that are arranged in an array and spaced apart from each other at a distance greater than one-half wavelength of the highest operating frequency of a signal that is to be detected by the antenna receiver. The antenna receiver has geolocation logic that uses the interelement phase difference measurements to obtain a location of the signal source. The change in the inter-element phase differences enables the elements to be spaced apart at great distances, which is beneficial for the physical construction of the platform, as the elements may be easily placed at convenient locations for conformal aerodynamic properties.



MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,
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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC - G01S 5/12 (2020.01)

CPC - G01S 1/04; G01S 5/02; G01S 5/0263; G01S 5/14; G01S 5/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

See Search History document

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

See Search History document

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

See Search History document

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ----- Y	US 2006/0114157 A1 (Kolanek et al.) 01 June 2006 (01.06.2006) entire document, especially: fig 1, 2, 3, 5, 6, 10, 11; para [0007], [0033]-[0037], [0039], [0042]-[0043], [0045], [0053], [0057]	1,2,8,9,14,15 ----- 3-7, 10-13, 16-19
Y	US 2013/0271323 A1 (ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE) 17 October 2013 (17.10.2013) entire document, especially: fig. 7, 8; para [0007], [0008], [0099], [0100], [0104]-[0106]	3-7
Y	US 2017/0082722 A1 (BAE SYSTEMS INFORMATION AND ELECTRONIC SYSTEMS INTEGRATION INC.) 23 March 2017 (23.03.2017) para [0011]	10-13, 18-19
Y	US 2012/0313816 A1 (MENEGOZZI et al.) 13 December 2012 (13.12.2012) entire document, especially: fig 1a, 1b, 1c; para [0062], [0064], [0073], [0074], [0144]	12, 16-19

Further documents are listed in the continuation of Box C.

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