

(57) Abstract: A temporal nuller (10) for removing or minimizing narrow band interference/jamming power from a global positioning system (GPS) receiver's input includes a first signal path (14) having a first input and a first output, at least one time delay device (16) located within the first signal path, and a second signal path (22) having a second input and a second output. The first signal input is connected to the second signal input, and the first signal output is connected to the second signal output. Further, the at least one time delay device (16) is operative to introduce a time delay between a signal at an output of the at least one time delay device relative to a signal at an input of the at least one time delay device. Further, the first signal path may include an adjustable phase shift device (18) for adjusting a frequency at which the null appears.

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2008/058176

A. CLASSIFICATION OF SUBJECT MATTER

INV. GOISI/OO

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)
601S

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

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

EPO-Internal, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2005/050896 A (QUELLAN INC [US]; GEBARA EDWARD [US]; LASKAR JOY [US]; TENTZERIS EMMAN) 2 June 2005 (2005-06-02) page 11, line 20 - page 16, line 28; figures 1,2	1-5, 7, 8, 11-16
X	JP 2006 145315 A (SEIKO EPSON CORP) 8 June 2006 (2006-06-08) abstract; figures 3,4	11
X	US 2005/069063 A1 (WALTHO ALAN E [US] ET AL) 31 March 2005 (2005-03-31) paragraphs [0014] - [0017]; figures 1-3	11
X	US 4 952 193 A (TALWAR ASHOK K [US]) 28 August 1990 (1990-08-28)	11
A	the whole document	9, 10, 17



Further documents are listed in the continuation of Box C.



See patent family annex.

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Date of the actual completion of the International search

17 September 2008

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	WO 99/00872 A (ELECTRO RADIATION INC [US]) 7 January 1999 (1999-01-07) page 15, line 7 - page 16, line 10 page 31, line 12 - page 35, line 6 ; figure 3 -----	11

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2008/058176

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