



- (51) International Patent Classification:
G01S 7/526 (2006.01) *G01S 15/42* (2006.01)
- (21) International Application Number:
PCT/IB2014/001603
- (22) International Filing Date:
1 August 2014 (01.08.2014)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
13 57680 1 August 2013 (01.08.2013) FR
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- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CL, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— with international search report (Art. 21(3))

- (88) Date of publication of the international search report:
13 August 2015

(54) Title: METHOD AND SYSTEM FOR DETERMINING A LOCATION OF A REFLECTING SCATTERER IN A MEDIUM

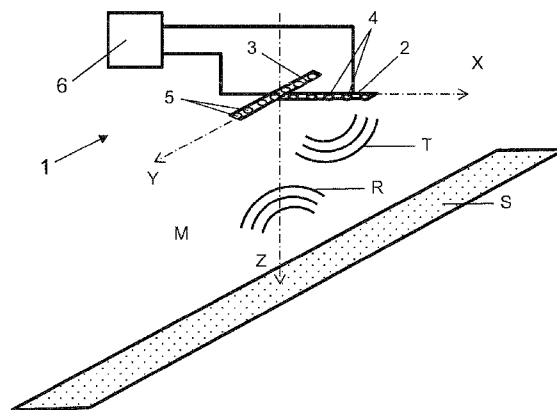


FIG. 1

(57) Abstract: A method for determining a location of a reflecting scatterer (S) in a medium (M) comprising a transmitting step in which a transducer (4) emits a transmit wave (T), a receiving step in which a receive array (3) provide transducer signals in response to a reflected wave (R), a beam forming step in which beam formed signals are computed, an interferometric processing step during which a complex interferometric signal is determined as a function of products of beam formed signals and conjugate of beam formed signals and a location determining step in which interferometric beam samples are selected from the complex interferometric signal, based on their complex arguments. The selected interferometric beam samples are indicatives of the location of the reflecting scatterer (S).



INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2014/001603

A. CLASSIFICATION OF SUBJECT MATTER
 INV. G01S7/526 G01S15/42
 ADD.
 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)
 G01S
 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 practicable, search terms used)
 EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CHRISTOPHE SINTES ET AL: "Gaussian approximation of interferometric PDF for MLE derivation", OCEANS, 2012, IEEE, 14 October 2012 (2012-10-14), pages 1-5, XP032300005, DOI: 10.1109/OCEANS.2012.6405038 ISBN: 978-1-4673-0829-8	1,15
A	pages 1-2, paragraph I-II	2-14
A	WO 2008/116058 A1 (HARRIS CORP [US]) 25 September 2008 (2008-09-25) page 15, lines 19-22	1-15

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 30 April 2015	Date of mailing of the international search report 12/05/2015
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Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Hirsch, Stefanie
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2014/001603

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