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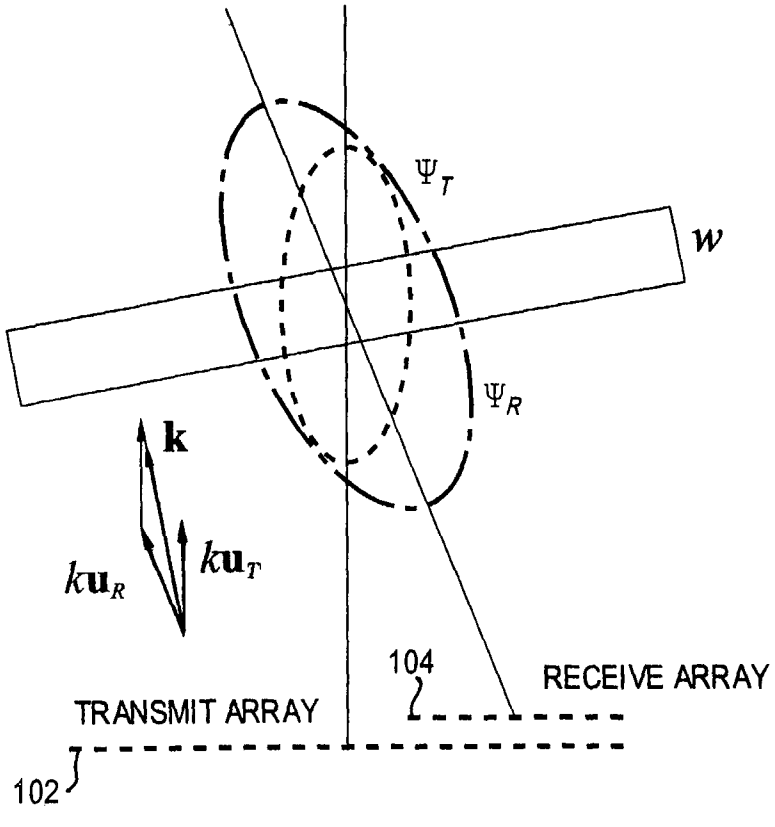
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[Continued on next page]

(54) Title: STATISTICAL ESTIMATION OF ULTRASONIC PROPAGATION PARAMETERS FOR ABERRATION CORRECTION



(57) Abstract: In estimation of an aberration in propagation of an ultrasonic wave from an aperture through an aberration path, the aperture is modeled as a plurality of sources and receivers. The frequency-domain magnitude of the aberration is estimated by normalizing the scattered signal power spectrum. The frequency-domain phase of the aberration is estimated by a recursion using cross spectra of signals at neighboring receivers.

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FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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A. CLASSIFICATION OF SUBJECT MATTER
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G01H 5/00(2006.01);G01N 29/00(2006.01)

USPC: 600/437,442
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)
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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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Masoy. S.E., Estimation of Ultrasound Wave Aberration With Signlas From Random Scatters. J Acoust. Soc. Am. June 2004, Vol. 116. No. 6, Pages 2998-3009, especially abstract, section II, section IV	1-60
A	US 4,852,577 A (SMITH et al) 1 August 1981 (01.08.1989), abstract, column 5, lines 3-12.	1-4,12,13-16,24,29-32,40,45-48,56
A	US 5,487,306 A (FORTES) 30 January 1996 (30.01.1996), abstract, column 3, lines 59-65.	1, 5-13,17-29,33-45,49-60

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