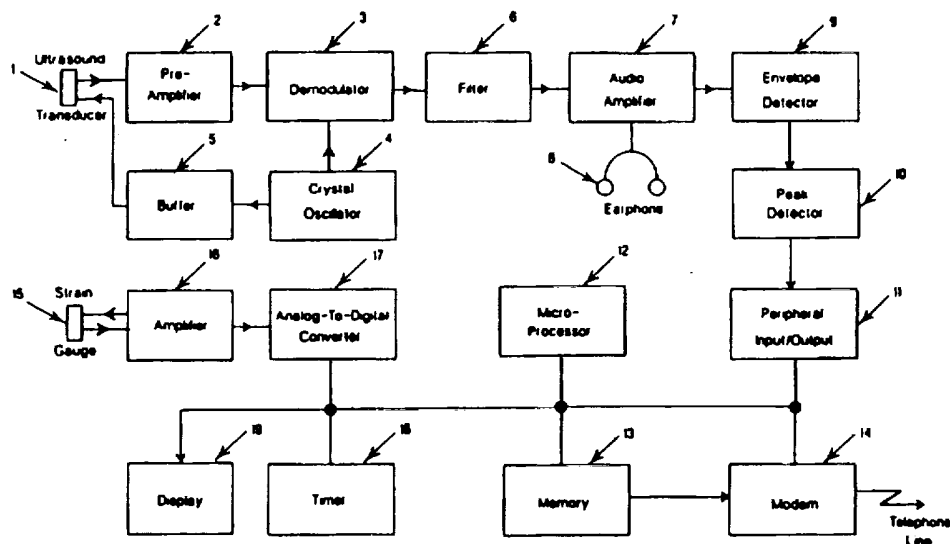




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<p>(21) International Application Number: PCT/US93/02889 (22) International Filing Date: 5 April 1993 (05.04.93) (30) Priority data: 07/863,184 3 April 1992 (03.04.92) US 07/863,719 3 April 1992 (03.04.92) US (71) Applicant: TELMED, INC. [US/US]; 9300 S. Dadeland Blvd., Suite 209, Miami, FL 33156 (US). (72) Inventors: FELDMAN, Yacob, Zalman ; 112 Elise Terrace, Willowdale, Toronto, Ontario M2R 2X1 (CA). RAPOPORT, Isaac ; 215 Lisa Crescent, Thornhill, Ontario L4J 2N2 (CA).</p>		<p>(74) Agents: NATH, Gary, M. et al.; Mason, Fenwick & Lawrence, 1225 Eye Street, N.W., Suite 1000, Washington, DC 20005 (US). (81) Designated States: AU, CA, JP, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 09 December 1993 (09.12.93)</p>

(54) Title: PORTABLE NON-INVASIVE TESTING APPARATUS



(57) Abstract

A portable apparatus for the non-invasive, simultaneous, self-testing of fetal and maternal signals which comprises: a user display means to indicate that the device is operational; an ultrasonic means (1) connected to the device for detecting fetal heart rate; a detection means (15) connected to the device for detecting a maternal input signal; wherein the device has signal processing means (12) for simultaneously processing fetal heart rate and maternal input signals, the signal processing means having a peak detection means (10) for detecting the peak value of the fetal heart signal; and a communication linking means (14) for the simultaneous transmission of fetal heart rate and maternal input data to a remote output device.

* (Referred to in PCT Gazette No. 02/1994, Section II)

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US93/02889

A. CLASSIFICATION OF SUBJECT MATTER
 IPC(5) : A61B 8/00
 US CL : 128/660.01, 662.04
 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)
 U.S. : 128/660.01, 662.04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 NONE

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.
Y	US, A, 4, 403, (Witt et al) published 06 September 1983, See column 6 lines 55 - column 7 line 32.	1-34
Y	US, A, 4, 256, 118 (Nagel) published 17 March 1991 See column 4, lines 37-55 and column 6 line 63 - column 8 line 19	1-34
Y	Obstetrics & Gynecology, Vol. 75 No. 3 Part 1, March 1990, pages 464-468, (R. Gonen et al), " Fetal Heart Rate Monitoring at Home and Transmission by Telephone", see page 464 column 2 paragraphs 1 and 2.	1-34

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: 18 October 1993
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Authorized officer: *Andrzej Rolinowski*
 Francis J. Jaworski
 Telephone No. (703) 308-0858