

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
14 March 2002 (14.03.2002)

PCT

(10) International Publication Number
WO 02/019897 A3

(51) International Patent Classification⁷: **A61B 5/00**

(21) International Application Number: PCT/US01/28310

(22) International Filing Date:
7 September 2001 (07.09.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/231,410 8 September 2000 (08.09.2000) US
09/948,997 7 September 2001 (07.09.2001) US

(71) Applicant: **WIRELESS MEDICAL, INC.** [US/US];
5884 South Macon Street, Englewood, CO 80111 (US).

(72) Inventors: **MACCARTER, Dean, J.**; 5884 South Macon Street, Englewood, CO 80111 (US). **HADJICOSTIS, Andreas, N.**; 10290 N. Meridian St. #423, Indianapolis, IN 46290 (US). **BUCKNER, John, K.**; 2482 West Dry Creek Court, Littleton, CO 80120 (US).

(74) Agents: **FRANKLIN, Thomas, D.** et al.; Townsend and Townsend and Crew LLP, Two Embarcadero Center, Eighth Floor, San Francisco, CA 94111-3834 (US).

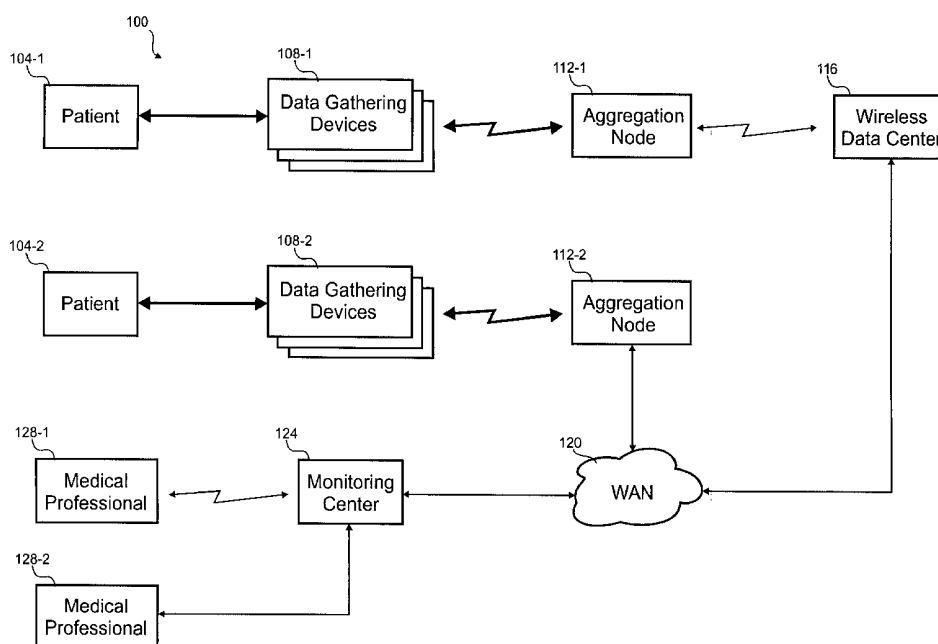
(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

[Continued on next page]

(54) Title: CARDIOPULMONARY MONITORING



(57) Abstract: According to the invention, a system (100) for monitoring health information of a plurality of patients is disclosed. Included in the system are a data gathering device (108), a node (112), a wide area network (120), and a monitoring center (124). The data gathering device (108) is a respiration sensor (204), a wireless transmitter (216) and a self-contained power source (220). The node (112) is wirelessly coupled to the data gathering device (108) and the wide area network (120) is coupled to the node (112). Located remotely to the node (112), the monitoring center (124) is coupled to the wide area network (120).



(88) Date of publication of the international search report:
3 October 2002

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US01/28810

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61B 05/00;

US CL : 600/300;

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. : 600/300, 301; 128/903;

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)

none

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US, 5,855,550, A (Lai et al), 05 January 1999, see entire document.	1-26
Y	US, 5,913,310 A (Brown) 2 June 1999, see entire document.	1-26



Further documents are listed in the continuation of Box C.



See patent family annex.

"A"	document defining the general state of the art which is not considered to be of particular relevance	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E"	earlier document published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L"	document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O"	document referring to an oral disclosure, use, exhibition or other means	"G"	document member of the same patent family
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

26 APRIL 2002

Date of mailing of the international search report

29 MAY 2002

Name and mailing address of the ISA/US
Commissioner of Patents and Trademarks
Box PCT
Washington, D.C. 20231

Facsimile No. (703) 305-3230

Authorized officer

ROBERT L. NASSER JR.

Telephone No. (703) 308-3251