

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
27 September 2007 (27.09.2007)

PCT

(10) International Publication Number
WO 2007/108919 A3

- (51) International Patent Classification:
H04M 11/00 (2006.01)
- (21) International Application Number:
PCT/US2007/005547
- (22) International Filing Date: 2 March 2007 (02.03.2007)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/783,581 17 March 2006 (17.03.2006) US
11/709,002 21 February 2007 (21.02.2007) US
- (71) Applicant (for all designated States except US): **EMERGIN, INC.** [US/US]; 6400 Congress Avenue, Suite 1050, Boca Raton, FL 33487 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **MCNEAL, Michael** [US/US]; 440 NE Olive Way, Boca Raton, FL 33432 (US). **SOUDERS, Axel** [DE/US]; 3357 Grove Road, Palm Beach Gardens, FL 33410 (US). **BREZINA, Mark** [CA/CA]; 48 Baden Court, Kitchener, Ontario, N2P 2V2 (CA). **CROOKS, Adrian** [US/US]; 10301 Old Winston Court, Lake Worth, FL 33467 (US). **SIERRA, Juan** [US/US]; 597 NW 49th Avenue, Plantation, FL 33317

(US). **WEISS, David** [US/US]; 5170 NW 98th Drive, Coral Springs, FL 33076 (US).

(74) Agent: **GITTEN, Howard, M.**; Edwards Angell Palmer & Dodge LLP, P.O. Box 55874, Boston, MA 02205 (US).

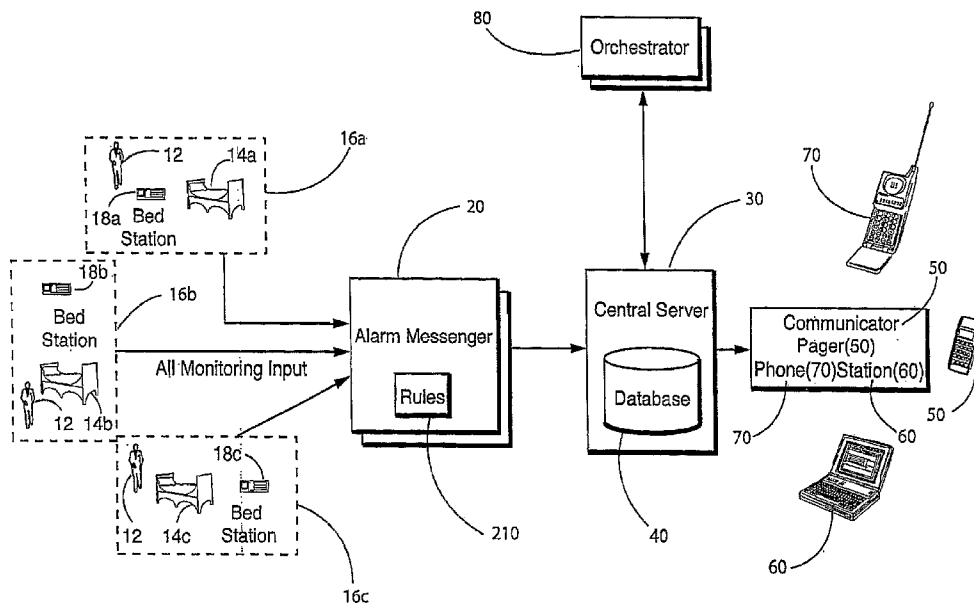
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, 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).

Published:
— with international search report

[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR MEDICAL ALARM MONITORING, REPORTING AND NORMALIZATION



(57) Abstract: A system for monitoring and reporting medical alarms includes an alarm messenger for receiving an alarm signal from monitored equipment. The alarm signal includes information to enable determination of the location of the monitored equipment. The alarm messenger outputs an alarm messenger signal including the information. A database includes a master association table stored in the database. A central server receives the alarm signal, utilizes the information from the alarm signal to access the master association table to determine alarm information and, in response to the alarm information, notifies the appropriate staff of an alarm condition.

WO 2007/108919 A3



(88) Date of publication of the international search report:
2 May 2008

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/05547

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - H04M 11/00 (2007.10) USPC - 379/106.02 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) IPC(8) - H04M 11/00 (2007.10) USPC - 379/106.02		
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) PatBase, MicroPatent		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,579,231 B1 (PHIPPS) 17 June 2003 (17.06.2003), entire document	1-22
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/>		
<p>* Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier application or patent but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> <p>"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</p> <p>"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</p> <p>"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</p> <p>"&" document member of the same patent family</p>		
Date of the actual completion of the international search 21 December 2007		Date of mailing of the international search report 16 JAN 2008
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201		Authorized officer: Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/05547

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See Extra Sheet (page 10)

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/05547

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I, claims 1-20, drawn to a system for monitoring and reporting medical alarms.

Group II, claims 21, 22, drawn to a system for monitoring and reporting medical alarms.

The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the special technical feature of the Group I invention is a central server receiving alarm messenger signal and utilizing the information from the messenger signal to access a master association table to determine alarm information for notifying appropriate staff of an alarm condition as claimed therein is not present in the invention of Group II; and the special technical feature of the Group II invention is an alarm messenger signal including a text tag and an image tag first transmitted from the alarm messenger to a central server with an empty attribute for the image tag as claimed therein is not present in the invention of Group I.

Since none of the special technical features of the Group I and II inventions is found in more than one of the inventions, unity of invention is lacking.