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- (71) Applicant (for all designated States except US): NELL-COR PURITAN BENNETT LLC [US/US]; 4280 Hacienda Drive, Pleasanton, CA 94588 (US).

Livermore, California 94551 (US). MANNHEIMER, Paul D. [US/US]; 4119 Sugar Maple Dr., Danville, California 94506 (US). MECCA, Roger [US/US]; 391 Squirrel Ridge Way, Danville, California 94506 (US).

(74) Agents: FLETCHER, Michael, G. et al.; Nellcor Puritan Bennett LLC, IP Legal, 60 Middletown Avenue, North Haven, CT 06473 (US).

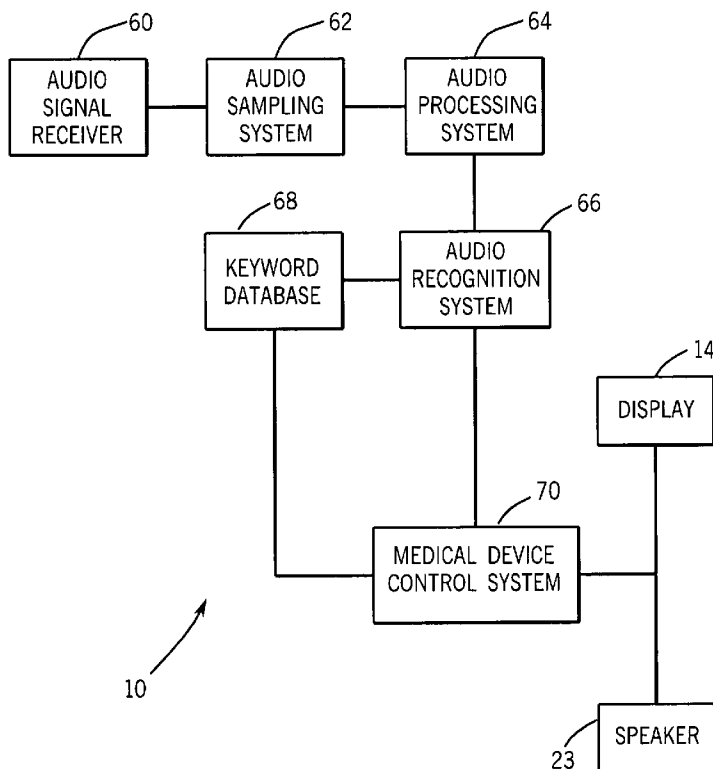
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- (72) Inventors; and
- (75) Inventors/Applicants (for US only): O'NEIL, Michael P. [US/US]; 3648 Kamp Drive, Pleasanton, California 94588 (US). ANDERSON, Lutz [US/US]; 5110 Peony Drive,

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(54) Title: SYSTEMS AND METHODS FOR SECURE VOICE IDENTIFICATION AND MEDICAL DEVICE INTERFACE



(57) Abstract: There is provided a system and method for secure voice identification and medical device interface. More specifically, in one embodiment, there is provided a medical device (10) comprising an audio recognition system (66) configured to receive an unlock keyword for the medical device (42) and to unlock the medical device to voice commands in response to the unlock keyword (44), and a control system (70) coupled to the audio recognition system (66) configured to execute one or more voice commands (46) on the medical device (10) after the medical device is unlocked.

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ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
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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).

Declarations under Rule 4.17:

- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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30 October 2008

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/020380

A. CLASSIFICATION OF SUBJECT MATTER
INV. G06F21/20 A61B5/00

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)
G06F A61B

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 practical, 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	WO 2006/057839 A (MEDICAL DIGITAL DEVELOPERS LLC [US]; CHANDLER MICHAEL [US]; GOETZ PHIL) 1 June 2006 (2006-06-01) paragraphs [0005], [0008], [0045]	1-9
A	US 2003/149342 A1 (HANOVER BARRY KEITH [US]) 7 August 2003 (2003-08-07) paragraphs [0001], [0002], [0007] - [0009]	6,9
A	US 2005/202843 A1 (FORS STEVEN L [US] ET AL FORS STEVEN LAWRENCE [US] ET AL) 15 September 2005 (2005-09-15) paragraphs [0035], [0036]	6,9

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *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)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *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
- *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
- *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.
- *&* document member of the same patent family

Date of the actual completion of the international search

11 June 2008

Date of mailing of the international search report

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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, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Veillas, Erik

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2007/020380

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 additional sheet

1. As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.

2. As all searchable claims could be searched without effort justifying an 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.:

1-9

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.

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-9

A method for unlocking a medical device based on unlock sounds.

2. claims: 10-15

A medical device executing voice commands in response to a biometric reader recognizing a user.

3. claims: 16-21

Medical devices specifically configured to only execute voice commands specifically directed to them.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/020380

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2006057839 A	01-06-2006	CA 2588209 A1 EP 1830693 A1	01-06-2006 12-09-2007
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