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Declarations under Rule 4.17:

[Continued on next page]

(54) Title: POSTURE STATE DETECTION USING SELECTABLE SYSTEM CONTROL PARAMETERS

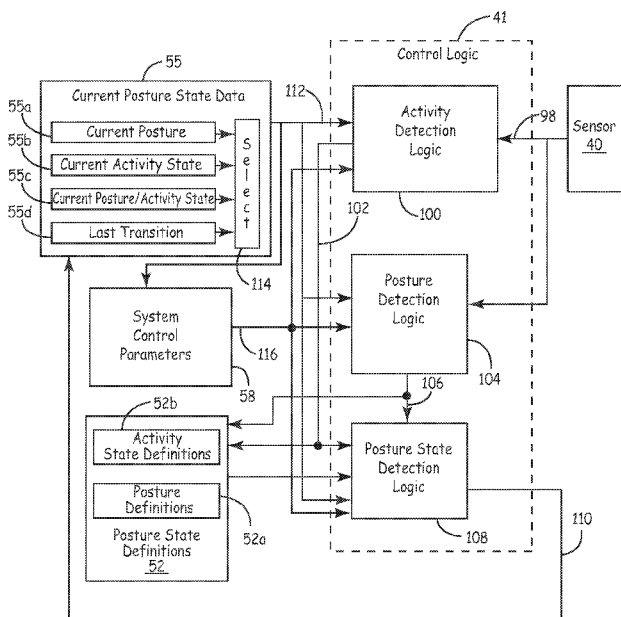


FIG. 5

(57) Abstract: Techniques for detecting and classifying a posture state of a patient are disclosed, wherein a posture state includes at least one of a posture and/or an activity state related to motion. In one embodiment, one or more signals indicative of at least one of posture and activity state of the patient may be sensed by a sensor. Control logic may be provided to process the one or more sensed signals in a selectable manner. This selectable manner may be based on current posture state data describing a posture state in which the patient has previously been classified. Alternatively or additionally, this current posture state data may describe a posture state transition previously undergone by the patient. The one or more signals that are so processed may then be used to classify a posture state of the patient.



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- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))* — *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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INTERNATIONAL SEARCH REPORT

International application No

PCT/US2009/048676

A. CLASSIFICATION OF SUBJECT MATTER
INV. A61B5/11

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)

A61B A61N

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 233 984 A (THOMPSON DAVID L [US]) 10 August 1993 (1993-08-10)	1-2, 5-11, 13-14, 27-30
Y	the whole document	4
X	US 2007/115277 A1 (WANG HUA [US] ET AL) 24 May 2007 (2007-05-24)	1-2,7-8, 11, 13-14, 27-30
	the whole document	
X	WO 2005/120348 A1 (MOVEMENT METRICS LTD [NZ]; DAVIS-HAVILL JOHN RONALD [NZ]; WALLEY JOHN) 22 December 2005 (2005-12-22) page 16, line 8 - page 19, line 8 page 27, lines 9-20	1-2,7-8, 12,14, 27-28,30
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☒ 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

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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

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INTERNATIONAL SEARCH REPORT

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2005/172311 A1 (HJELT KARI [FI] ET AL) 4 August 2005 (2005-08-04)	1-3,7-8, 14, 27-28,30 4
Y	paragraphs [0011] - [0013] paragraphs [0037] - [0038] paragraph [0069] -----	
X	US 2006/195051 A1 (SCHNAPP ELMA O [US] ET AL) 31 August 2006 (2006-08-31) paragraphs [0038] - [0039] -----	1,3,7-8, 27
X,P	US 2008/288200 A1 (NOBLE CHRISTOPHER R [US]) 20 November 2008 (2008-11-20) paragraphs [0020] - [0029] paragraphs [0064] - [0066] -----	1-4,7-8, 11-14, 27-30

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2009/048676

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.: 15-26
because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy
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:

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 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.:

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

Information on patent family members

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PCT/US2009/048676

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