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Mechanical Design for Band Fabrication w/PCS

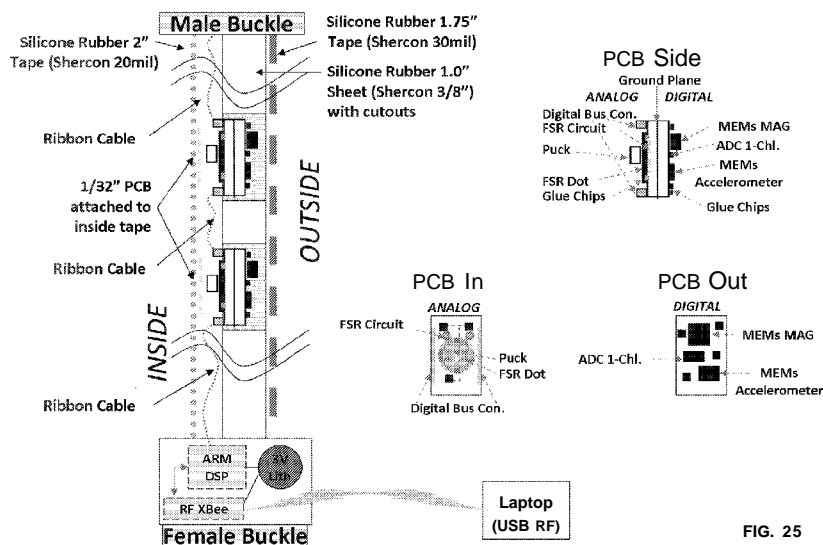




FIG. 25

(57) **Abstract:** An example system includes one or more sleeves, each configured for attachment to a leg and comprising a pressure sensor, an accelerometer and a magnetometer. A processor processes sensor signals from the pressure sensor, the accelerometer and the magnetometer to estimate action (A) and work (W) using event detections of peak stance and valley swing events associated with leg movement.

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A. CLASSIFICATION OF SUBJECT MATTER		
<i>A61B 5/11(2006.01)i, A61B 5/103(2006.01)1</i>		
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 5/11; G06F 19/00; G01P 15/08; G01R 33/02; A61B 5/103		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean utility models and applications for utility models Japanese utility models and applications for utility models		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) eKOMPASS(KIPO internal) & Keywords: pressure sensor, accelerometer, magnetometer, work, action		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 20100070193 A1 (SOLINSKY JAMES C.) 18 March 2010 See abstract, paragraphs [0046]-[0050], claims 1-4 and figure 6	1-4
A	US 20110054358 A1 (KIM MIN HO et al.) 03 March 2011 See abstract, paragraphs [0042]-[0053], claims 1,4-5,7-11,13 and figures 1-2.	1-4
A	US 6305221 B1 (HUTCHINGS; LAWRENCE J.) 23 October 2001 See abstract, column 7, line 30 - column 8, line 15, column 23, lines 23-55, claim 1 and figures 1-2,16.	1-4
A	US 20090198155 A1 (BONNET STEPHANE) 06 August 2009 See abstract, paragraph [0036], claim 1 and figure 1.	1-4
A	US 20070250286 A1 (MICHAEL BUNCAN et al) 25 October 2007 See abstract, paragraphs [0047]-[0052], claims 1,17-19,32 and figures 1-2.	1-4
A	US 20070032748 A1 (RUSSELL MCNEIL et al.) 08 February 2007 See abstract, paragraphs [0029],[0031],[0036]-[0038], claims 1,8-9 and figures 2,4.	1-4
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> 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 application or patent 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 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		
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Information on patent family members

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