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(71) Applicant *(for all designated States except US)*: **FREESCALE SEMICONDUCTOR, INC.** [US/US]; 6501 William Cannon Drive West, Austin, TX 78735 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **CLIFFORD, Michelle A.** [US/US]; 1813 Shawnee Drive, Chandler, Arizona 85244 (US). **BORRAS, Rodrigo L.** [ES/US]; 2003 S. 5th Avenue, Marshalltown, Iowa 50158 (US). **GOMEZ, Leticia** [US/US]; 10071 Fieldthorn Street, San Diego, California 92127 (US).

(74) Agents: **KING, Robert L.** et al.; 7700 W. Parmer Lane, MD:PL02, Austin, Texas 78729 (US).

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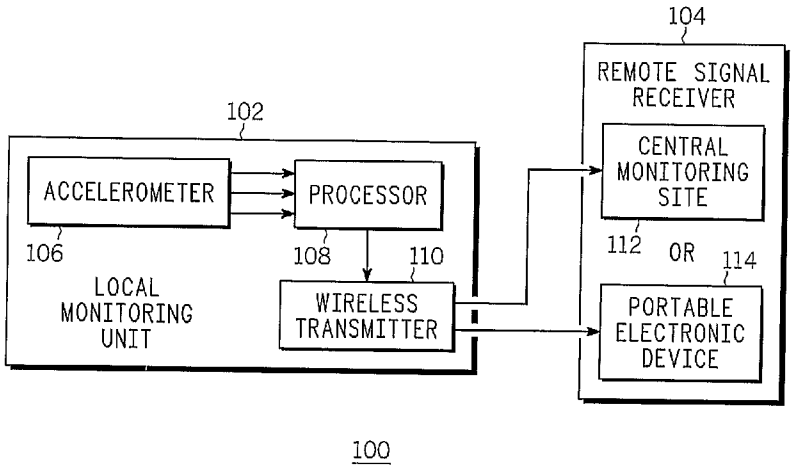
(54) Title: SYSTEM AND METHOD FOR HUMAN BODY FALL DETECTION



(57) Abstract: A system and method is provided for detection of a human body fall event. The fall detection system (100, 200) includes a monitoring unit (102, 202), including a plurality of accelerometers (106, 206), a processor (108, 208) and a wireless transmitter (110, 210). The plurality of accelerometers (106, 206) provide acceleration measurements to the processor (108, 208), the measurements describing the current acceleration of the person wearing the monitoring unit (102, 202) in all directions. The processor (108, 208) receives the acceleration measurements and compares the acceleration measurements to a value range to determine if the wearer is currently experiencing a fall event. The processor (108, 208) generates a signal in response to the detection of a fall event and the transmitter (110, 210) transmits the signal to a remote signal receiver (104, 204). The system and method can further detect non-movement in the wearer of the monitoring unit (102, 202) subsequent to the fall event to detect an unconscious wearer.

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INTERNATIONAL SEARCH REPORT

International application No.
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A. CLASSIFICATION OF SUBJECT MATTER
IPC: **G08B 23/00**(2007.01)

USPC: 340/573.1
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. : 340/573.1, 573.7, 539.12, 539.11

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 6,433,690 B2 (PETELENZ et al) 13 August 2002 (13.08.2002), column 2, lines 2-14; column 3, lines 3-55	1-5,8,10-18
A,E	US 7,095,331 B2 (LEHRMAN et al) 22 August 2006 (22.08.2006), all.	1-20
A	US 6,160,478 A (JACOBSEN et al) 12 December 2000 (12.12.2000), all.	1-20

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
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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 Daniel J Wu Telephone No. (571) 272-2600

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