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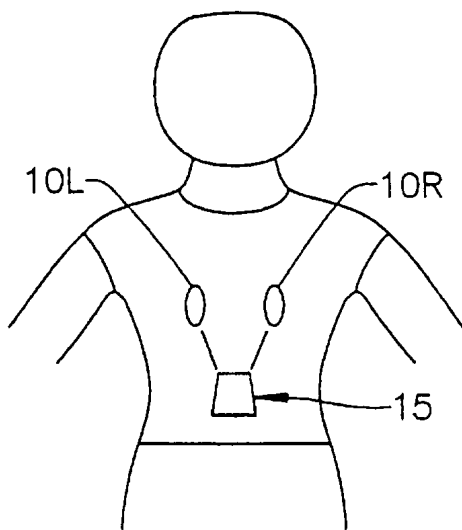
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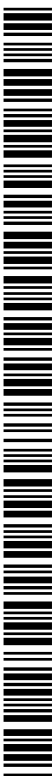
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(54) Title: BALLISTIC IMPACT DETECTION SYSTEM

FIG. 2



(57) Abstract: A wearable ballistic impact protection system detects impacts to a body. The system includes multiple sensors 10L, 10R for detecting vibration. The sensed vibrations are converted to electrical signals which are filtered. Electronic components 15 are provided to determine whether the filtered signal have frequency and amplitude characteristics of impact that cause injury to a body. Preferably, the sensors 10L, 10R are Piezo-electric film sensing elements. Information regarding the extent of the impact and injuries to the body may be transmitted to a remote location so that medics or other personnel may be informed to the extent of injuries to the body so that they may provide medical assistance.



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**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US05/21195

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC: **G06F 19/00**( 2006.01);**G01N 31/00**( 2006.01);**G01F 17/00**( 2006.01)

USPC: 702/32,56;73/570

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. : 702/32,56; 73/570

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)

IEEE : Reactive suit; reactive armor

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	US 7,174,277 A1 "PRODUCT INTEGRITY SYSTEMS AND ASSOCIATED METHODS" 06 February 2007 (06.02.07) column 47, lines 62 et seq; column 48, lines 1-16	1, 2, 5, 6, 9-12 and 14-20

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

"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

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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

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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

"&"

document member of the same patent family

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