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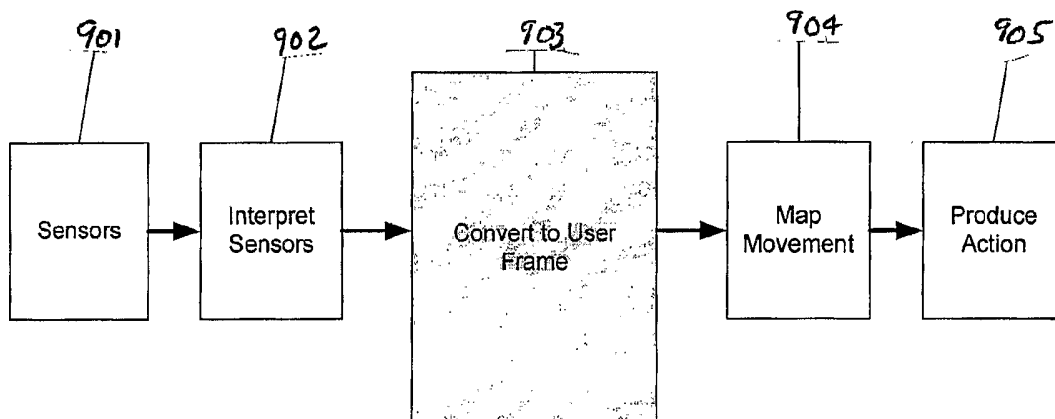
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(54) Title: FREE SPACE POINTING DEVICES WITH TILT COMPENSATION AND IMPROVED USABILITY



(57) Abstract: Systems and methods according to the present invention describe free space pointing devices (400) which enhance usability by transforming sensed motion data from a first frame of reference (e.g., the body of the free space pointing device (400)) into a second frame of reference (e.g., a user's frame of reference). One exemplary embodiment of the present invention removes effects associated with a tilt orientation in which the free space pointing device (400) is held by a user.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC: **G09G 5/00**(2006.01),**5/08**(2006.01)

USPC: 345/158

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. : 345/158

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	US 5,181,181 A (GLYNN) 19 January 1993 (19.01.1993), Figs. 3, 9, col. 9, lines 59-61, col. 10, lines 1-7.	1-35

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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