



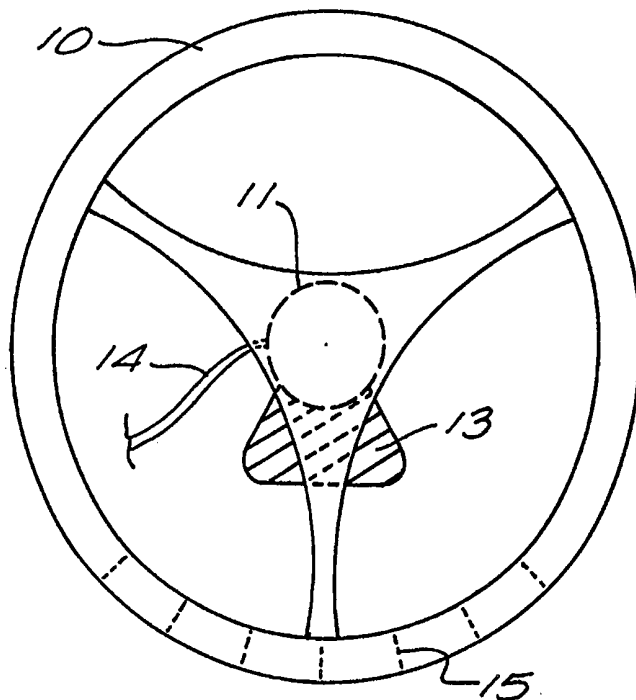
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification⁶ : G09G 5/00</p>	<p>A3</p>	<p>(11) International Publication Number: WO 99/24890 (43) International Publication Date: 20 May 1999 (20.05.99)</p>
<p>(21) International Application Number: PCT/US98/23978 (22) International Filing Date: 10 November 1998 (10.11.98) (30) Priority Data: 08/968,817 10 November 1997 (10.11.97) US 09/083,411 22 May 1998 (22.05.98) US (71) Applicant: SC & T INTERNATIONAL, INC. [US/US]; 15695 North 83rd Way, Scottsdale, AZ 85260 (US). (72) Inventors: MUERZL, Klaus; 3910 E. Taro Lane, Phoenix, AZ 85024 (US). COPLAND, James, L.; 4302 E. Beryl Lane, Phoenix, AZ 85028 (US). (74) Agent: OGRAM, Mark, E.; 8040 S. Kolb Road, Tucson, AZ 85706 (US).</p>		<p>(81) Designated States: AU, BR, CA, CN, JP, KR, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> (88) Date of publication of the international search report: 7 October 1999 (07.10.99)</p>

(54) Title: AN INPUT APPARATUS FOR A COMPUTER OR GAME

(57) Abstract

An input apparatus (10) adapted for use with electronic games and computers (14) in which the entire assembly is housed within a handheld housing. Within the housing unit are sensors (11) which monitor movement of the housing (10) and communicate these movements to the electronic game or computer (14). Movement of the housing is monitored in all directions and distance together with the angle of the housing unit. Communication with the remote computer/game (14) is accomplished using wires, radio frequency, or infra-red transmissions. The housing unit (10) is ideally structured to resemble an item normally associated with the game being played (i.e. a steering wheel for a race game, an airplane's joystick for an air-combat game).



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US98/23978

A. CLASSIFICATION OF SUBJECT MATTER		
IPC(6) : G09G 5/00 US CL : 345/156		
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. : 345/156, 157, 158, 161; 463/36, 37, 38, 46, 47; 364/190		
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)		
APS: (STEERING WHEEL), JOYSTICK, (HAND HELD), HANDHELD, SENSOR, INDICATOR, REMOTE, MOBILE, POSITION, LOCATION, ANGLE, INDICIA AND TILT		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,887,966 A (GELLERMAN) 19 December 1989, abstract, figure 1, column 1 and 2.	1-3, 15-16, 20
X	US 5,059,958 A (JACOBS ET AL.) 22 October 1991, abstract, figure 4, column 1, line 5-25, column 2, lines 30-68.	1-3, 15-16
X	US 5,394,168 A (SMITH, III ET AL.) 28 February 1995, abstract, figure 3a-d and 4, column 2, lines 5-25.	1-3, 5, 8, 9, 15, 20 and 23-24
A	US 5,440,326 A (QUINN) 08 August 1995, abstract, figure 3, column 2, lines 36-68.	4
X	US 5,453,758 A (SATO) 26 September 1995, abstract, figure 1, 13 and 21, column 1 and 2.	1-3, 5-7, 11, 12, 15-17, 20-22
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23 MAY 1999	02 JUN 1999	
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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 5,512,892 A (CORBALLIS ET AL.) 30 April 1996, abstract, figure 1 and 4, column 1 and 2.	1-3, 5, 8, 11, 12, 13, 15-18, 20-24
X	US 5,526,022 A (DONAHUE ET AL.) 11 June 1996, abstract, figure 1 and 6a (item 114a-b) column 1 and 2.	1, 2, 4
A,P	US 5,741,182 A (LIPPS ET AL.) 21 April 1998, abstract, figure 1.	1
A,P	US 5,829,745 A (HOULE) 03 November 1998, abstract, figure 1.	1
X	US 5,528,265 A (HSRRISON) 18 June 1996, abstract, figure 6a item 114b.	1-2, 4