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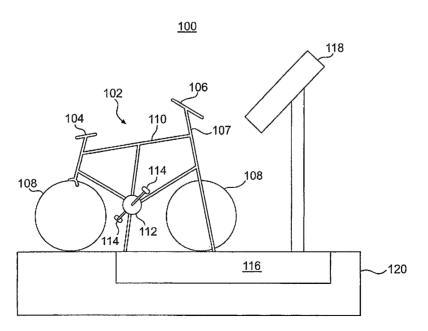
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(54) Title: STATIONARY VIRTUAL CYCLE SYSTEM AND METHOD FOR OPERATING THE SAME



(57) Abstract: The invention is directed generally to a method and apparatus for providing a stationary cycle, and more particularly to methods and devices for providing a user, such as a child, with a stationary cycle to navigate through a virtual world displayed to the user. More specifically, the invention allows a user to navigate within a virtual world by controlling a stationary cycle, thereby combining the interaction of a video game environment with the exercise afforded on a cycle. The user pedaling the cycle and controlling the handle bars. Based on these actions, the user can control navigation within the virtual world.





INTERNATIONAL SEARCH REPORT

International application No. PCT/US06/24585

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A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - (2006.01) - A63B 22/06 USPC - 482/57 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) IPC(8) (2006.01) - A63B 22/00, 22/06, 21/002, 71/00 USPC - 482/52, 57, 92, 94, 901, 8, 9			
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) USPTO EAST System (US, USPG-PUB, EPO, DERWENT), MicroPatent, IP.com, DialogPro			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	opropriate, of the relevant passages	Relevant to claim No.
X - Y	US 6,244,988 B1 (DELMAN) 12 June 2001 (12.06.200	11) columns 3-7	1-3, 6-10, 13-21 5, 12
Υ	US 5,027,303 A (WITTE) 25 June 1991 (25.06.1991) columns 5 and 6		5, 12
Α	US 2003/0134714 A1 (OISHI et al) 17 July 2003 (17.07.2003) entire document		1-21
А	US 2002/0055422 A1 (AIRMET et al) 09 May 2002 (09.05.2002) entire document		1-21
А	US 4,637,605 A (RITCHIE) 20 January 1987 (20.01.1987) entire document		1-21
Α	US 2004/0023761 A1 (EMERY) 05 February 2004 (05.02.2004) entire document		1-21
Α	US 6,733,419 B2 (LIU et al) 11 May 2004 (11.05.2004) entire document		1-21
А	US 6,908,416 B2 (MERCADO et al) 21 June 2005 (21.06.2005) entire document		1-21
A, P	US 2005/0170934 A1 (MYLES, SR et al) 04 August 2005 (04.08.2005) entire document		1-21
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