



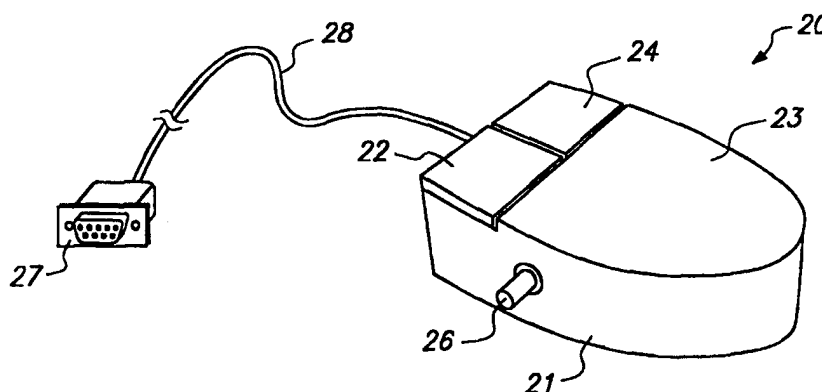
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(54) Title: APPARATUS AND METHODS FOR MOVING A CURSOR ON A COMPUTER DISPLAY AND SPECIFYING PARAMETERS

(57) Abstract

An input device for use with a computer, and methods of use, are provided which enable a user to specify the motion of a cursor on a computer display, and to specify a variety of parameters, including binary parameters and a continuous two-dimensional parameter. In a first embodiment, a strain-sensitive two-axis control stick (26), used for specifying the continuous two-dimensional parameter, is disposed on a lateral surface of a "mouse"-style pointing device (20). A rolling ball (25) mechanism is used to detect the motion of the device, which determines the motion of the cursor (2). Push-buttons (22, 24) disposed on a top surface of the device are used to specify binary parameters and activation of commands or actions.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US98/06031

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) : G09G 5/08

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, 161, 163, 164, 167

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 5,530,455 A (GILLICK ET AL.) 25 June 1996, see Abstract; Figures 1a and 1b; and column 3, lines 14-25; column 2, lines 36-60; column 4, lines 6-17 and column 4, lines 31-33.	1-5 and 15 ----- 6-14 and 16-22
Y	US 5,564,002 A (BROWN) 25 June 1996, see Abstract; column 1, lines 28-46 and 47-51.	6-9, 13-14, 16-18 and 21-22
Y	US 5,499,334 A (STAAB) 12 March 1996, see Abstract, Figures 1 and 4; and column 4, lines 11-48.	6-9, 13-14, 16-18 and 21-22
Y	Microsoft Power Point's Drawing Tools 1996 Library of Congress Catalog Card No. 934=70074, see page 443, lines 1-11.	10-12 and 19-20



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