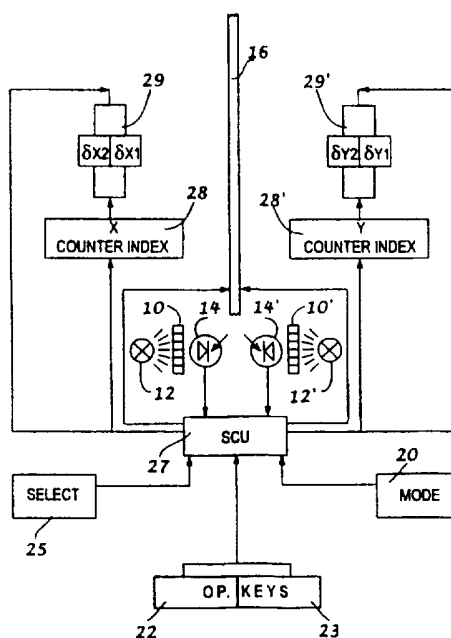




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<p>(21) International Application Number: PCT/IL96/00078</p> <p>(22) International Filing Date: 12 August 1996 (12.08.96)</p> <p>(30) Priority Data:</p> <table border="0"> <tr> <td>114931</td> <td>14 August 1995 (14.08.95)</td> <td>IL</td> </tr> <tr> <td>117106</td> <td>12 February 1996 (12.02.96)</td> <td>IL</td> </tr> </table> <p>(71)(72) Applicant and Inventor: LUZZATTO, Marco [IL/IL]; 33 Betzalel Street, 64683 Tel-Aviv (IL).</p> <p>(74) Agents: LUZZATTO, Kfir et al.; Luzzatto & Luzzatto, P.O. Box 5352, 84152 Beer-Sheva (IL).</p>	114931	14 August 1995 (14.08.95)	IL	117106	12 February 1996 (12.02.96)	IL	<p>(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</p> <p>Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p> <p>(88) Date of publication of the international search report: 12 June 1997 (12.06.97)</p>
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(54) Title: IMPROVED COMPUTER OPERATING POINTER DEVICES AND COMPUTER OPERATING PROCESSES



(57) Abstract

A method of operating a computer by a pointer device (40) comprises providing counters (28, 29) for memorizing coordinate displacements of the pointer index; choosing one of two modes, the REGISTER OR MEMORY (R/M) mode or the ACTIVE OR PALY (A/P) mode; when in the R/M mode, moving the pointer index from a selected base point to a reference position corresponding to a computer operation, and memorizing the resulting pointer index displacements; and when the pointer is in the A/P mode, bringing the pointer index to the base point, applying to it the memorized displacements, thus moving it from the base point to the reference position, and carrying out the operation corresponding to this latter. A computer apparatus, in addition to the conventional elements of a pointer operated computer, counters (28, 29) for registering differential displacements and applying them to a base position of the pointer. The non-conventional elements of the apparatus are preferably included in the pointer or part of an Asynchronous Interface.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/IL96/00078

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. : 345/156-184, 145-146

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

NONE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4,859,995 A (HANSEN et al.) 22 August 1989, abstract and Figs. 1-7.	1-42
A	US 5,153,571 A (TAKAHASHI) 06 October 1992, col. 1, line 65 to col. 2, line 18.	1-42

Further documents are listed in the continuation of Box C. See patent family annex.

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