



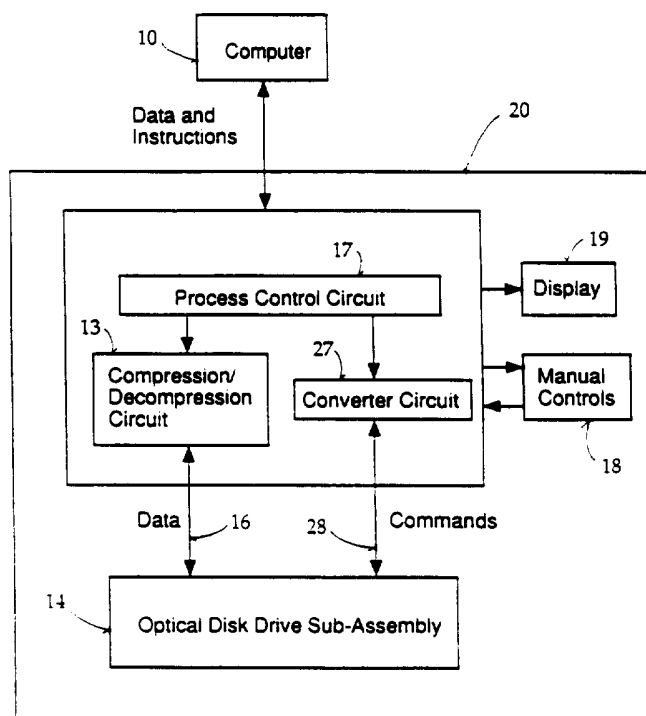
## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification:</b>  <b>H03M 7/30, G06F 9/00</b>	<b>A3</b>	<b>(11) International Publication Number:</b> <b>WO 92/21224</b>  <b>(43) International Publication Date:</b> 10 December 1992 (10.12.92)
<b>(21) International Application Number:</b> PCT/US92/04534 <b>(22) International Filing Date:</b> 28 May 1992 (28.05.92)  <b>(30) Priority data:</b> 706,760                      29 May 1991 (29.05.91)      US  <b>(71) Applicant:</b> MAXOPTIX CORPORATION [US/US]; 2520 Junction Avenue, San Jose, CA 95134 (US).  <b>(72) Inventor:</b> JORGENSEN, Richard, A. ; 2068 Bel Air Ave- nue, San Jose, CA 95128 (US).  <b>(74) Agents:</b> McFARLAND, James, D. et al.; Blakely, Soko- loff, Taylor & Zafman, 12400 Wilshire Boulevard, 7th Floor, Los Angeles, CA 90025 (US).	<b>(81) Designated States:</b> AT, AT (European patent), AU, BB, BE (European patent), BF (OAPI patent), BG, BJ (OAPI patent), BR, CA, CF (OAPI patent), CG (OAPI patent), CH, CH (European patent), CI (OAPI patent), CM (OAPI patent), DE, DE (European patent), DK, DK (European patent), ES, ES (European patent), FI, FR (European patent), GA (OAPI patent), GB, GB (Euro- pean patent), GN (OAPI patent), GR (European pa- tent), HU, IT (European patent), JP, KP, KR, LK, LU, LU (European patent), MC (European patent), MG, ML (OAPI patent), MR (OAPI patent), MW, NL, NL (Euro- pean patent), NO, RO, RU, SD, SE, SE (European pa- tent), SN (OAPI patent), TD (OAPI patent), TG (OAPI patent).  <b>Published</b> <i>With international search report.</i> <i>Before the expiration of the time limit for amending the</i> <i>claims and to be republished in the event of the receipt of</i> <i>amendments.</i>  <b>(88) Date of publication of the international search report:</b> 21 January 1993 (21.01.93)	

**(54) Title:** OPTICAL DISK DRIVE ASSEMBLY HAVING SELECTABLE COMPRESSION AND EMULATION

**(57) Abstract**

A system is disclosed for storing data on, and receiving data from, an optical disk. The data may be provided by a host computer. A compression/decompression circuit is included, and the data may be compressed or uncompressed in this circuit, at the option of a user, who can select from compression modes including a bypass mode and a target ratio mode. A converter circuit is included for translating from the host computer's commands to the optical disk drive's commands. The user may select a specific emulation for compatibility with other disk systems, and the user may select specific setup parameters for compatibility with a variety of host computers. Process control circuitry operates the compression and decompression circuit in one of a number of modes and emulations. The system may be enclosed in a full form factor size package. A display and manual controls, accessible to a user, are provided for user interface with the system. Many user options are provided to enhance compatibility with a wide variety of disk systems. The present invention provides a large storage capability for storing large amounts of information in less physical space. The system of the present invention is suitable for "plug and play" installation by computer manufacturers. As an additional advantage, the user can easily monitor data compression with the display that shows the compression ratio, continuously updated.



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# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US92/04534

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(5) :HO3M 7/30; G06F 9/00 US CL :395/275; 341/87 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) U.S. : 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) COMPRESSION, DECOMPRESSION, RATIO, MODE, BYPASS, OPTICAL, DISK, AND AVERAGE		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	US,A, 4,929,946 (O'BRIEN ET AL.) 29 May 1990, See entire document.	1-2,5-13, <u>31-35</u> 3-4,14-30, 36-40
Y	US, A, 4,263,650 (BENNETT ET AL.) 21 April 1981, See entire document.	14-15,18-30
Y,P	US,A, 5,046,027 (TAAFFE) 03 September 1991, See columns 12-17.	3-4,16-17
Y,P	US, A, 5,031,091 (WAKATSUKI ET AL.) 09 July 1991, See entire document.	14-15,18-30
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Date of the actual completion of the international search	Date of mailing of the international search report	
29 SEPTEMBER 1992	08 DEC 1992	
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