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(21) International Application Number: PCT/US98/07695 (22) International Filing Date: 16 April 1998 (16.04.98) (30) Priority Data: 08/844,460 18 April 1997 (18.04.97) US (71) Applicant: MULTIDISC TECHNOLOGIES [US/US]; Suite 800, 7755 Center Avenue, Huntington Beach, CA 92647 (US). (72) Inventors: BOS, Eric, Rene; 17915 Santa Valera, Fountain Valley, CA 92708 (US). MONTELIUS, Robert, L., Jr.; 26001 LaCuesta Avenue, Laguna Hills, CA 92653 (US). (74) Agents: STETINA, Kit, M. et al.; Stetina Brunda Garred & Brucker, 4th floor, 24221 Calle de la Louisa, Laguna Hills, CA 92653 (US).	(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, 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: 21 January 1999 (21.01.99)	
(54) Title: COMPACT DISC STORAGE MAGAZINE WITH DUAL DISC LOADER AND TRANSPORT APPARATUS		
(57) Abstract <p>A compact disc storage and retrieval system for a computer. The system includes a disc storage magazine structure (12) having a storage bank (14) with a plurality of disc storage sites (16) arranged as a column. Each storage site (16) is accessible through opposing first and second sides from respective first and second access channels (22, 24) respectively adjacent the first and second sides. A first disc loader and transport apparatus member (28) is disposed within the first access channel (22) and a second disc loader and transport apparatus member (30) is disposed within the second access channel (24). Each such member is movably operable within each respective access channel for retrieving and replacing a disc from and to any of the storage sites. The disc storage magazine can include a disc drive mechanism (26) accessible from each access channel and to which each disc loader and transport apparatus member can travel to deliver and retrieve a compact disc.</p>		

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US98/07695

A. CLASSIFICATION OF SUBJECT MATTER
 IPC(6) : G11B 17/22
 US CL : 369/178
 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. : 369/ 178, 36, 14, 15, 34, 75.1

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)
 MAYA, APS, GPIC


C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, P ----- Y,P	US 5,638,347 A (Baca et al) 10 JUNE 1997, fig. 8, and col. 7, lines 51-65.	1-2, 4-5 ----- 3,6
Y	US 5,128,912 A (Hug et al) 7 JULY 1992, col. 2, lines 5-30, figs. 1 and 2.	1-6
Y	US 4,912,575 A, (Shiosaki), 27 MARCH 1990, fig. 3, and col. 3, lines 31-44, and col. 5, lines 36-61.	1-6
A	US 4,817,070 A, (Hug et al), 28 MARCH 1989, fig. 1B.	1-6
A	US 4,754,397 A, (Varaiya et al), 28 JUNE 1988, col. 2, figs. 1, and 2.	1-6

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

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Date of the actual completion of the international search 17 JUNE 1998	Date of mailing of the international search report 13 OCT 1998
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PCT/US98/07695

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,513,156 A (Hanaoka et al), 30 Apr. 1996, cols. 6-12.	1-6