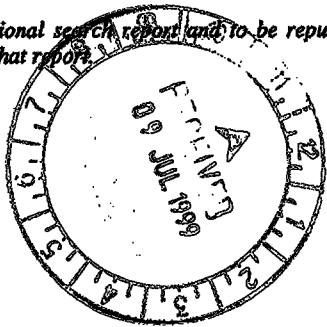




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : G11B 27/034, 27/32, 20/12, H04N 5/781, 5/85	A2	(11) International Publication Number: WO 99/14755 (43) International Publication Date: 25 March 1999 (25.03.99)
(21) International Application Number: PCT/JP98/04171 (22) International Filing Date: 17 September 1998 (17.09.98) (30) Priority Data: 9/251991 17 September 1997 (17.09.97) JP 10/92044 3 April 1998 (03.04.98) JP 10/114665 24 April 1998 (24.04.98) JP (71) Applicant: MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. [JP/JP]; 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 (JP). (72) Inventors: NAKATANI, Tokuo; 3-23-24, Ayukawa, Ibaraki-shi, Osaka 567-0831 (JP). GOTOH, Yoshiho; 5-1-3, Higashinakahama, Joutou-ku, Osaka-shi, Osaka 536-0023 (JP). TAMAKOSHI, Yasushi; 3-10-619, Nakamiyakitamachi, Hirakata-shi, Osaka 573-1194 (JP). KATO, Hiroshi; Kasugaryo, 1-138-2, Hiratadai, Kasuga-shi, Fukuoka 816-0812 (JP). OKADA, Tomoyuki; 6-6-101, Myoukenzaka, Katano-shi, Osaka 576-0021 (JP). MURASE, Kaoru; Room 105, Purejierukurihara, 8-29, Meyasukita 2-chome, Ikarugacho, Ikomagun, Nara 636-0133 (JP).		(74) Agent: NAKAJIMA, Shiro; 6F, Yodogawa 5-Bankan, 2-1, Toyosaki 3-chome, Kita-ku, Osaka-shi, Osaka 531-0072 (JP). (81) Designated States: CN, ID, KR, MX, SG. Published <i>Without international search report and to be republished upon receipt of that report.</i> 
(54) Title: OPTICAL DISC RECORDING APPARATUS, COMPUTER-READABLE RECORDING MEDIUM RECORDING A FILE MANAGEMENT PROGRAM, AND OPTICAL DISC		
(57) Abstract An optical disc recording apparatus for recording a video object onto an optical disc. A recording area of the optical disc is divided into a plurality of zones which each include a plurality of adjacent tracks. The optical disc recording apparatus includes: a reading unit for reading from the optical disc the sector information showing data assignment for sectors on the optical disc; a recording unit for recording the video object onto the optical disc; and a control unit for controlling the reading unit and the recording unit. The control unit detects at least one series of consecutive unassigned sectors on the optical disc by referring to the read sector information. Each series has a total size greater than a minimum size and is located within a single zone. The minimum size corresponds to a data amount that ensures uninterrupted reproduction of the video object. The control unit also controls the recording unit to record the video object into the detected series. 