EX PARTE
REEXAMINATION CERTIFICATE
ISSUED UNDER 35 U.S.C. 307

THE PATENT IS HEREBY AMENDED AS INDICATED BELOW.

AS A RESULT OF REEXAMINATION, IT HAS BEEN DETERMINED THAT:

The patentability of claim **3** is confirmed.
Claim **1** is cancelled.
Claim **2** was not reexamined.

* * * * *

EXHIBIT 2

US005587981C1

(12) **EX PARTE REEXAMINATION CERTIFICATE** (7232nd)

United States Patent
Kamatani

(10) **Number: US 5,587,981 C1**
(45) **Certificate Issued: Dec. 15, 2009**

(54) **MULTI-STANDARD OPTICAL DISK READING METHOD HAVING DISTINCTION PROCESS**

(75) Inventor: **Yasuo Kamatani**, Sagamihara (JP)

(73) Assignee: **Laser Dynamics, Inc.**, Sagamihara, Kanagawa-Ken (JP)

Reexamination Request:
No. 90/008,937, Nov. 20, 2007

Reexamination Certificate for:

Patent No.:	**5,587,981**
Issued:	**Dec. 24, 1996**
Appl. No.:	**08/523,461**
Filed:	**Sep. 5, 1995**

(51) **Int. Cl.**

G11B 27/32	(2006.01)
G11B 19/12	(2006.01)
G11B 7/00	(2006.01)
G11B 7/0037	(2006.01)
G11B 7/09	(2006.01)

(52) **U.S. Cl.** **369/47.54**; 369/44.26; 369/47.55; 369/53.2

(58) **Field of Classification Search** ..... None
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,946,347 A	3/1976	Wohlmut
3,999,009 A	12/1976	Bouwhuis
4,025,949 A	5/1977	Whitman
4,044,378 A	8/1977	Laub
4,090,031 A	5/1978	Russell
4,450,553 A	5/1984	Holster et al.
4,755,980 A	7/1988	Yoshimaru et al.
4,905,215 A	2/1990	Hattori et al.
4,972,399 A	11/1990	Miyasaka
4,977,553 A	12/1990	Yokogawa
4,989,195 A	1/1991	Suzuki
5,003,521 A	3/1991	Yoshida et al.
5,031,162 A	7/1991	Morimoto et al.
5,097,464 A	3/1992	Nishiuchi et al.
5,136,569 A	8/1992	Fennema et al.
5,202,874 A	4/1993	Zucker et al.
5,202,875 A	4/1993	Rosen et al.
5,204,852 A	4/1993	Nakagawa et al.
5,235,581 A	8/1993	Miyagawa et al.
5,235,583 A	8/1993	Jongenelis et al.
5,244,774 A	9/1993	Usami et al.
5,251,198 A	10/1993	Strickler
5,255,262 A	10/1993	Best et al.
5,263,011 A	11/1993	Maeda et al.
5,278,816 A	1/1994	Russell

(Continued)

FOREIGN PATENT DOCUMENTS

EP	HEI4-123320	4/1992
EP	0 580 873 A1	2/1994
EP	0 592 192 A2	4/1994
EP	0 673 034 A2	9/1995
EP	0 674 309 A1	9/1995

(Continued)

OTHER PUBLICATIONS

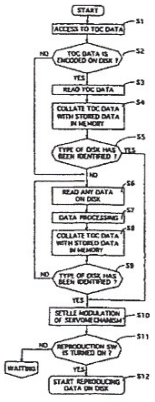
"Optical Disk Family", IBM Technical Disclosure Bulletin, vol. 30, No. 2, Jul. 1987, pp. 667–669.

(Continued)

Primary Examiner—Charles Craver

(57) **ABSTRACT**

An optical disk reading method to provide an optical disk reading system which is able to reproduce encoded optical data from varied optical disk format fabricated in accordance with different standard. Before start reproducing data on an optical disk, a set of standard data which includes data of total number of data layer, pit density and track pitch is identified by reading a total of contents data encoded in a reading region of the optical disk. If the total of contents data is not encoded on the optical disk, any encoded pits on the optical disk is processed until the standard of the optical disk is identified. After the standard of the optical disk is identified, modulation of each servo circuit such as a focusing lens servo circuit and a tracking servo circuit is settled to start reproducing data on the optical disk.



U.S. PATENT DOCUMENTS

5,287,335	A	2/1994	Ichiyama
5,289,451	A	2/1994	Ashinuma et al.
5,373,499	A	12/1994	Imaino et al.
5,381,392	A	1/1995	Hira
5,381,401	A	1/1995	Best et al.
5,408,453	A	4/1995	Holtslag et al.
5,410,530	A	4/1995	Best et al.
5,414,451	A	5/1995	Sugiyama et al.
5,428,597	A	6/1995	Satoh et al.
5,446,565	A	8/1995	Komma et al.
5,446,724	A	8/1995	Tabe et al.
5,452,279	A	9/1995	Yokota et al.
5,463,602	A	10/1995	Oka et al.
5,465,245	A	11/1995	Yanagawa
5,487,060	A	1/1996	Rosen et al.
5,499,231	A	3/1996	Fennema et al.
5,502,702	A	3/1996	Nakajo
5,513,170	A	4/1996	Best et al.
5,526,338	A	6/1996	Hasman et al.
5,540,966	A	7/1996	Hintz
5,541,900	A	7/1996	Ito et al.
5,555,537	A	9/1996	Imaino et al.
5,561,643	A	10/1996	Yamazaki et al.
5,574,706	A	11/1996	Verboom et al.
5,576,107	A	11/1996	Hirabayashi et al.
5,598,398	A	1/1997	Best et al.
5,677,903	A	10/1997	Holtslag et al.
5,684,773	A	11/1997	Hayashi
5,734,787	A	3/1998	Yonemitsu et al.
5,831,952	A	11/1998	Yamada et al.

FOREIGN PATENT DOCUMENTS

EP	0 674 316	A2	9/1995
EP	0 658 887	A1	2/2000
JP	61-258367		11/1986
JP	HEI3-173936		7/1991
JP	4103074	A	4/1992
JP	6310980	A	10/1994
JP	7-6490		1/1995

OTHER PUBLICATIONS

Defendant BenQ Corporation's Preliminary Invalidity Contentions, dated Nov. 29, 2004, *Yasuo Kamatani et al.*, v. *BenQ Inc.*, Civ. Action No. 2:03–cv–00437 (E.D. Tex.).

Defendants' Final Invalidity Contentions; dated Aug. 18, 2005; *Yasuo Kamatami et al.* v. *BenQ Inc.*, Civ. Action No. 2:03–cv–00437 (E.D. Tex.).

Expert Report of Hal J. Rosen dated Oct. 19, 2005; *Yasuo Kamatani et al.*, v. *BenQ Inc.*, Civ. Action No. 2:03–cv–00437 (E.D. Tex.).

Expert Report of Timothy Drabik on Invalidity of United States Pat. No. 5,587,981; dated Oct. 19, 2005; *Yasuo Kamatani et al.* v. *BenQ Inc.*, Civ. Action No. 2:03–cv–00437 (E.D. Tex.).

Expert Report of Andrew J. Dillon, dated Oct. 29, 2005, *Yasuo Kamatani et al.* v. *BenQ Inc.*, Civ. Action No. 2:03–cv–00437 (E.D. Tex.).

Supplement to Expert Report of Timothy Drabik on Invalidity of United States Pat. No. 5,587,981; dated Nov. 7, 2005; *Yasuo Ka.matani et al.* v. *BenQ Inc.*, Civ. Action No. 2:03–cv–00437 (E.D. Tex.).

Rebuttal Expert Report of Dennis Howe as to the Validity of Claim 3 of the U.S. Pat. No. 5,587,981, and the Inequitable Conduct Issues Related Thereto; dated Nov. 16, 2005; *Yasuo Kamatani et al.* v. *BenQ Inc.*, Civ. Action No. 2:03–cv–00437 (E.D. Tex.).

Expert Report of Jack C. Goldstein; dated Nov. 16, 2005; *Yasuo Kamatani et al.*, v. *BenQ Inc.*, Civ. Action No. 2:03–cv–00437 (E.D. Tex.).

First Supplement to Expert Report of Hal J. Rosen; dated Nov. 21, 2005; *Yasuo Kamatani et al.* v. *BenQ Inc.*, Civ. Action No. 2:03–cv–00437 (E.D. Tex.).

Defendant Asus Computer International's Invalidity Contentions and Disclosures Pursuant to P.R. 3–3 and 3–4, dated Oct. 22, 2007, *LaserDynamics, Inc.* v. *Asus Computer International et al*, Civ. Action No. 2:06–cv–00348–TJW–CE (E.D. Tex.).

Defendants Quanta Storage America, Inc. and Quanta Computer USA, Inc's Preliminary Invalidity Contentions Pursuant to Patent Local Rule 3–3 and Related Document Production Pursuant to Patent Local Rule 3–4, dated Oct. 22, 2007, *LaserDynamics, Inc.* v. *Asus Computer International et al.*, Civ. Action No. 2:06–cv–00348–TJW–CE (E.D. Tex.).

"IBM scientists demonstrates multilevel optical discs," Microelectronics Journal, vol. 25, No. 6, pp. 29–30 (1994) http://www.almaden.ibm.com/vis/models/multi.html.

P. Asthana, "A long road to overnight success," IEEE Spectrum, vol. 31, No. 10, pp. 60–66 (Oct. 1994).

P. Asthana and B. Finkelstein, "Superdense Optical Storage," IEEE Spectrum, vol. 32, No. 8, pp. 25–31 (Aug. 1995).

R. A. Bowers, "Hype and Video on CD," CD–ROM Professional (Jun. 1995).

S. Homan and A.E. Willner, "High–Capacity Optical Storage Using Multiple Wavelengths, Multiple Layers and Volume Holograms," Electronic Letters, vol. 31, No. 8, pp. 621–623 (Apr. 1995).

S. Homan and A.E. Willner, "High–Capacity Optical Storage Using Multiple Wavelengths, Multiple Layers and Volume Holograms," Proceedings of the SPIE, Optical Data Storage '95, vol. 2514, pp. 184–190 (Sep. 1995).

N.K. Arter and M.J. Herman, "Detection of Optical Disk Type," IBM Technical Disclosure Bulletin, vol. 29, No. 3 (Aug. 1986).

Wayne I. Imaino, et al., "Extending the Compact Disk Format to High Capacity for Video Applications," Proceedings of the SPIE, Topical Meeting on Optical Data Storage, vol. 2338, pp. 254–259 (Oct. 1994).

V.B. Jipson, "Drive Technologies for the Future," Proceedings of the SPIE, Optical Data Storage '95, vol. 2514, pp. 2–3 (Sep. 1995).

T. Katayama, et al., "High Precision Tracking Control System for Digital Video Disk Players," IEEE Transactions on Consumer Electronics, vol. 41, No. 2, pp. 313–321 (Mar. 1995).

Yoshiaki Komma, et al., "Dual Focus Optical Head for 0.6mm and 1.2mm Disks," Proceedings of the SPIE, Topical Meeting on Optical Data Storage, vol. 2338, pp. 282–288 (Oct. 1994).

Peter D. Lubell, "The Gathering Storm in High–Density Compact Disks," IEEE Spectrum, vol. 32, No. 8, pp. 32–37 (Aug. 1995).

T.D. Milster, "Design Issues in Optical Data Storage," Proceedings of the SPIE, vol. 2383, pp. 382–389, Micro–Optics/Micromechanics and Laser Scanning and Shaping (May 1995).

Dana J. Parker, "High–Density & Re–Inventing the Disc," CD–ROM Professional (Jun. 1995).

Robert Pattern, "Sony Stands by its DVD Standard," Electronics, vol. 68, No. 5 (Mar. 13, 1995).

H. Rosen, et al.,"Multilayer Optical Recording (MORE)," Proceedings of the SPIE, vol. 2514, Optical Data Storage '95, pp. 14–19 (Sep. 1995).

M. Ross and D. Berman, "IBM's Multilevel Optical Disk Named 'Best of What's New'," Business Wire (Nov. 1994).

M. Ross, "Taking Optical Storage to Higher Levels," IBM Research Magazine, No. 2 (1994).

Kurt A. Rubin, et al., "Multilevel Volumetric Optical Storage" Proceedings of the SPIE, vol. 2338, 1994, Topical Meeting on Optical Data Storage, pp. 247–253 (Oct. 1994).

EX PARTE REEXAMINATION CERTIFICATE ISSUED UNDER 35 U.S.C. 307

THE PATENT IS HEREBY AMENDED AS INDICATED BELOW.

AS A RESULT OF REEXAMINATION, IT HAS BEEN DETERMINED THAT:

The patentability of claim **3** is confirmed.

Claim **1** is cancelled.

Claim **2** was not reexamined.

* * * * *