PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to Provide the Missing Text for Exhibits A-C for the Previously Recorded Assignment at reel 015360 frame 0606.

CONVEYING PARTY DATA

Name	Execution Date
SILICON VALLEY BANK	03/04/2003
GATX VENTURES, INC.	03/04/2003
SEQUEL ENTREPRENEURS' FUND II, L.P.	03/05/2003

RECEIVING PARTY DATA

Name:	DPHI ACQUISITIONS, INC.
Street Address:	2580 55th Street
City:	Boulder
State/Country:	COLORADO
Postal Code:	80301

PROPERTY NUMBERS Total: 1

Property Type	Number
Patent Number:	6813226

CORRESPONDENCE DATA

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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Haynes and Boone, LLP

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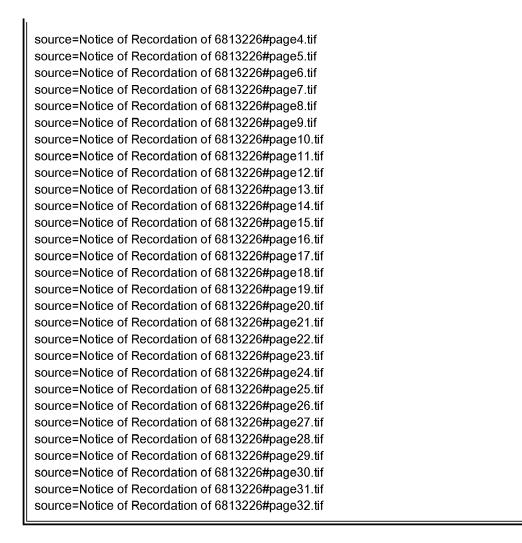
ATTORNEY DOCKET NUMBER: 70103.1

NAME OF SUBMITTER: Jonathan W. Hallman

Total Attachments: 30

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PATENT REEL: 027636 FRAME: 0859 OF \$40.00 6813226





UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231



NOVEMBER 16, 2004

PTAS

500012029A

MACPHERSON KWOK CHEN & HEID LLP 1762 TECHNOLOGY DRIVE SUITE 226 SAN JOSE, CA 95110

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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RECORDATION DATE: 11/15/2004

REEL/FRAME: 015360/0606

NUMBER OF PAGES: 11

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

SILICON VALLEY BANK

DOC DATE: 03/04/2003

ASSIGNOR:

GATX VENTURES, INC.

DOC DATE: 03/04/2003

ASSIGNOR:

SEQUEL ENTREPRENEURS' FUND II,

DOC DATE: 03/05/2003

L.P.

ASSIGNEE:

DPHI ACQUISITIONS, INC. 2580 55TH STREET

BOULDER, COLORADO 80301

015360/0606 PAGE 2

 SERIAL NUMBER: 09950367
 FILING DATE: 09/10/2001

 PATENT NUMBER: 6813226
 ISSUE DATE: 11/02/2004

TITLE: CALIBRATION OF A FOCUS SUM THRESHOLD IN A FOCUS SERVO SYSTEM

SHARON LATIMER, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

11/15/2004 500012029

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Silicon Valley Bank	03/04/2003
GATX Ventures, Inc.	03/04/2003
Sequel Entrepreneurs' Fund II, L.P.	03/05/2003

RECEIVING PARTY DATA

Name:	DPHI Acquisitions, Inc.
Street Address:	2580 55th Street
City:	Boulder
State/Country:	COLORADO
Postal Code:	80301

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	09950367

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1762 Technology Drive

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NAME OF SUBMITTER:

Jonathan W. Hallman

Total Attachments: 9

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ASSIGNMENT

This Assignment ("Assignment") is effective as of the date of execution hereof by SILICON VALLEY BANK ("SVB") having a place of business at 3003 Tasman Drive, Santa Clara, California 95054, GATX VENTURES, INC ("GATX") having a place of business at 3687 Clara, California 95054, GATX VENTURES, INC ("GATX") having a place of business at 3687 Mt. Diablo Boulevard, Suite 200, Lafayette, California 94549, and SEQUEL ENTREPRENEURS' FUND II, L.P., in its capacity as Collateral Agent ("Sequel") having a place of business at 4430 Arapahoe Avenue, Suite 220, Boulder, Colorado 80303 (SVB, GATX and Sequel hereinafter collectively referred to as "Assignors"). The rights assigned herein will be owned by DPHI Acquisitions, Inc., a Delaware corporation, (hereinafter "Assignee"), with its principal place of business located at 2580 55th Street, Boulder, Colorado 80301.

WHEREAS, Assignors have acquired all rights, title and interest to technologies ("Technology") including, but not limited to, all versions of any software, firmware, hardware, chip layout and design, manufacturing processes, methods and system (including, without limitation, computer applications), ideas, inventions, disclosures, original works of authorship, developments, improvements, modifications, or enhancements, created, acquired and/or developed by or on behalf of DataPlay, Inc., including, without limitation, all object code and source code; all designs, drawings, specifications, models, data, algorithms, documentation, diagrams, flow charts and development plans, know-how and techniques, trade secrets and materials; all derivative works of the foregoing by whomever created (in object code, source code, or any other form and/or any media); and all tangible embodiments of the foregoing (in whatever form or media); and

WHEREAS, Assignors hereby desire to irrevocably assign to Assignee all rights, title and interest in and to the Technology.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignors make the following assignment:

- 1. Assignors hereby irrevocably assign to Assignee all of Assignors' rights, title and interest in and to the Technology, said rights, title and interest including, but not limited to, all patent rights, copyrights, trademark rights, mask rights, trade secret rights and all other intellectual and industrial property rights anywhere in the world thereto, to have and to hold the same unto Assignee, its successors and assigns. In addition, Assignors hereby assign to Assignee and waives any and all moral rights Assignors may have in and to the Technology or any portion thereof.
- 2. Assignors irrevocably assign to Assignee all of Assignors' rights, title and interest in and to all patent applications and issued patents so derived from the Technology, together with any reissue, continuation, division, continuation-in-part or extension thereof, filed in the United States, as listed in Attachment A, and Internationally, as listed in Attachment B. In addition, Assignors irrevocably assign to Assignee all of Assignors' rights, title and interest in all invention disclosures as listed in Attachment C.
- 3. At any time, and from time to time after the date of execution of this Assignment, Assignors shall forthwith, upon Assignee's request, take any and all steps to

(W0734733 ILC)

execute, acknowledge and deliver to Assignee any and all further instruments and assurances necessary or expedient in order to vest the aforesaid rights and causes of action more effectively in Assignee and to facilitate Assignee's enjoyment and enforcement of said rights and causes of action.

- 4. Assignors hereby constitute and appoint Assignee as Assignors' true and lawful attorney-in-fact, with full power of substitution in Assignors' name and stead, to take any and all steps, including proceedings at law, in equity or otherwise, to execute, acknowledge and deliver any and all instruments and assurances necessary or expedient in order to vest or perfect the aforesaid rights and causes of action more effectively in Assignee or to protect the same or to enforce any claim or right of any kind with respect thereto. This includes, but is not limited to, any rights with respect to the Technology that may accrue or have accrued in Assignors' favor from the respective date of creation of the Technology to the date of this Assignment. Assignors hereby declare that the foregoing power is coupled with an interest and is irrevocable.
- 5. To the extent, if any, that Assignors retain any right, title or interest with respect to the Technology or rights in any technology or materials that would be infringed by Assignee's use, sale, offer for sale, modification, making, maintenance, support, reproduction or distribution of any of the Technology, Assignors hereby grant to Assignee an exclusive, irrevocable, perpetual, fully paid-up, royalty-free, transferable, sublicensable, worldwide right and license to exploit and exercise all such technology and materials (i) to use, sell, offer to sell, modify, make, maintain, support, reproduce and distribute all or any portion of the Technology including, without limitation, the making of additions to or deletions from the Technology, regardless of the medium (now or hereafter known) into which the Technology may be modified.
- 6. No waiver of any breach or condition of this Assignment shall be deemed to be a waiver of any other or subsequent breach or condition, whether of like or different nature. If any provision of this Assignment is held by a court of competent jurisdiction to be illegal, invalid or unenforceable, that provision shall be limited or eliminated to the minimum extent necessary so that this Assignment shall otherwise remain in full force and effect and enforceable. This Assignment shall be governed by and construed in accordance with the laws of the State of California applicable to contracts entered into and to be wholly performed within California, without regard to conflicts of laws provisions thereof.

WITHOUT LIMITING IN ANY WAY THE PROVISIONS OF THE ASSET PURCHASAE AGREEMENT DATED FEBRUARY 19, 2003, BETWEEN ASSIGNORS REPRESENTATIONS AND ASSIGNEE, INCLUDING THE ASSIGNORS' WARRANTIES SET FORTH THEREIN, ALL OF WHICH APPLY TO ASSIGNMENT AND ALL OF WHICH TERMS OF THE ASSET PURCHASE AGREEMENT ARE APPLICABLE TO THIS ASSIGNMENT AND THE CONVEYANCE EFFECTUATED PURSUANT HERETO, ASSIGNORS MAKE NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, AS TO ANY MATTER WHATSOEVER, INCLUDING, BUT NOT LIMITED TO: THE TITLE TO THE TECHNOLOGY; THE CONDITION, DESIGN, OR QUALITY OF THE TECHNOLOGY; THE FITNESS OF THE PURPOSE: PARTICULAR Α FOR USE OR FOR TECHNOLOGY THE COMPLIANCE TECHNOLOGY; THE OF MERCHANTABILITY

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LAWS, RULES. ANY REQUIREMENTS OF THE TECHNOLOGY WITH THERETO: PATENT PERTAINING CONTRACTS OR. **SPECIFICATIONS** INFRINGEMENT; LATENT DEFECTS; THE QUALITY OF THE MATERIAL OR WORKMANSHIP OF THE TECHNOLOGY OR THE CONFORMITY OF THE TECHNOLOGY TO THE PROVISIONS AND SPECIFICATIONS OF ANY PURCHASE ORDER RELATING THERETO; THE OPERATION, USE, OR PERFORMANCE OF THE TECHNOLOGY; OR ANY OTHER REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THE TECHNOLOGY. ASSIGNEE ALSO ACKNOWLEDGES THAT ASSIGNORS HAVE MADE NO REPRESENTATION OR WARRANTY OF ANY KIND, NATURE OR DESCRIPTION, EXPRESS OR IMPLIED, WITH RESPECT TO THE OPERATION, USE OR PERFORMANCE OF THE TECHNOLOGY.

ASSIGNORS SHALL HAVE NO LIABILITY TO ASSIGNEE OR ANY PERSON WHOMSOEVER (INCLUDING LICENSEES OR PURCHASERS OF ALL OR ANY OF THE TECHNOLOGY) FOR ANY CLAIM, LOSS, DAMAGE OR EXPENSE (INCLUDING ATTORNEY FEES) OF ANY KIND OR NATURE, WHETHER SPECIAL, CONSEQUENTIAL, ECONOMIC OR OTHERWISE, CAUSED OR ALLEGED TO BE CAUSED DIRECTLY, INDIRECTLY, INCIDENTALLY, OR CONSEQUENTIALLY BY THE TECHNOLOGY OR ANY PART THEREOF OR PRODUCTS THEREFROM, BY ANY INADEQUACY OF THE TECHNOLOGY OR DEFECT OR DEFICIENCY THEREIN, BY ANY INCIDENT WHATSOEVER ARISING IN STRICT LIABILITY OR OTHERWISE FROM ASSIGNORS' OR ASSIGNEE'S NEGLIGENCE OR OTHERWISE, OR FOR ANY LOSS OF BUSINESS OR DAMAGE WHATSOEVER AND HOWSOEVER CAUSED, OR ARISING OUT THE TECHNOLOGY.

Assignee acknowledges that Assignors have made no representation or warranty concerning the location of the Technology nor whether all of the Technology is in existence or operational. ASSIGNEE PURCHASES THE TECHNOLOGY AS IS AND WHERESOEVER LOCATED, WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND. Assignee accepts the Technology subject to the terms of this Assignment.

Assignee agrees to be responsible for all taxes, that are now existing or hereafter are incurred, assessed, or imposed on the Technology or as a result of the ownership or sale of the Technology, except as expressly provided otherwise in the Asset Purchase Agreement. Assignee hereby agrees to hold Assignors harmless from and against any and all taxes, that are now existing or are hereafter incurred, assessed or imposed on the Technology or as a result of the ownership of the Technology.

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3

IN WITNESS WHEREOF, Assignors have cause	d this Assignment to be signed in Assignors'
name.	
SILICON VALLEY BANK	
Date: 3-4-2003	Marla Johnson, Schia Vice Presiden
	Printed Name and Title
GATX VENTURES, INC.	
Date:	Signature of Assignor
	\ .
	Printed Name and Title
SEQUEL ENTREPRENEURS' FUND II, L.P. as Collateral Agent	
Date:	Signature of Assignor
	Printed Name and Title

N WITNESS WHEREOF, Assignors have cause name.	ed this Assignment to be signed in Assignors'
SILICON VALLEY BANK	
Date:	Signature of Assignor
	Printed Name and Title
GATX VENTURES, INC. Date: 3-4-2003	Cults
Date	CARL F. SWAMEON, UP
	Printed Name and Title
SEQUEL ENTREPRENEURS' FUND II, L.P. as Collateral Agent	
Date:	Signature of Assignor
	Printed Name and Title

IN WITNESS WHEREOF, Assignors have cause name.	d this Assignment to be signed in Assignors'
SILICON VALLEY BANK	
Date:	Signature of Assignor
·	Printed Name and Title
GATX VENTURES, INC.	
Date:	Signature of Assignor
	Printed Name and Title
SEQUEL ENTREPRENEURS' FUND II, L.P. as Collateral Agent Date: 3-5-03	Ma
	Signature of Assignor John T. GREFF MANNEED Printed Name and Title

ATTACHMENT A

United States Patent Applications

ATTACHMENT B

International Patent Applications

ATTACHMENT C

Disclosures

ATTACHMENT A



United States Patent Applications

DocketNumber

ApplicationNumber

CountryName

ApplicationDate

M-11807 US

09/947,004

United States

9/4/2001

Title

Mechanism And Method For Positioning Data Cartridge In Disk Drive

M-11806 US

09/947,151

United States

9/4/2001

Title

Mechanism And Method For Limiting Ejection Of Data Cartridge From A Disk Drive

M-8534-2D US

09/753,109

United States

12/29/2000

Title

First Surface Optical Data Storage Disk Containing Phase Change Recording Layer and Housed in Cartridge

M-8534-1D US

09/753,356

United States

12/29/2000

Title

First Surface Optical Data Storage Disk Containing Phase Change Recording Layer and Housed in Cartridge

M-9802 US

09/652,975

United States

8/31/2000

Title

Double-Sided Digital Optical Disk and Method and Apparatus for Making

M-8531 US

09/527,982

United States

3/17/2000

Title

Combination Mastered and Writeable Medium and Use in Electronic Book Internet Appliance

M-9804 US

09/666,616

United States

9/20/2000

Title

Micro Lens and Method and Apparatus for Fabricating

M-8534 US

09/315,398

United States

5/20/1999

Title

Removable Optical Storage Device And System

M-9802-1C US

10/290,116

United States

11/6/2002

Title

Double-Sided Digital Optical Disk And Method And Apparatus For Making

M-12098 US

{W0734777 JLC}Init:

09/950,409

United States

9/10/2001

Title

Tracking And Focus Servo System With Error Signal Inverse Non-Linearity Calibration





DocketNumber

ApplicationNumber

CountryName

ApplicationDate

M-12096 US

09/950,372

United States

9/10/2001

Title

Digital Servo System With Calibrated Notch Filters

M-12147 US

09/951,475

United States

9/10/2001

Title

System And Method For Performing A Spin Motor Startup Operation

M-12121 US

09/951,328

United States

9/10/2001

Title

BEMF Timing System

M-11808 US

09/947.313

United States

9/4/2001

Title Mechanism And Method For Opening Shutter Of Data Cartridge In Disk Drive

M-12030 US

09/951,333

United States

9/10/2001

Title

System And Method For Controlling Operation Of A Disc For Optical Media With Premastered And Read/Write Sectors

M-11095 US

09/950,329

United States

9/10/2001

Title

Close Focus Algorithm In A Digital Focus Servo System

M-11096 US

09/951,930

United States

9/10/2001

Title

Spin Motor Control In An Optical Drive

M-12076 US

09/950,365

United States

9/10/2001

Title

Optical Disk Drive With A digital Focus And Tracking Servo System



M-12027 US

09/951.332

United States

9/10/2001

Title

System And Method For Detecting And Recovering From An Off-Format State In An Optical Disc Drive

M-12084 US

09/950,441

United States

9/10/2001

Title

Digital Servo System With Feed-Forward Control Loops

M-12023 US

09/951,339

United States System And Method For Coordinating Time Critical And Non-Time Critical Tasks in A Control System For An Optical Disc Drive

9/10/2001

Title

M-12077 US 09/950,408 United States 9/10/2001

Title

Shape Control Efforts In A Digital Servo System

M-11098 US

09/951,947

United States

9/10/2001

Title

System And Method For Controlling Interrupts In A Control System For An Optical Disc Drive

M-12079 US

09/950.394

United States

9/10/2001

Title

Focus Detection In A Digital Focus Servo System

M-11128 US

09/947,111

United States

9/4/2001

Title

Fringing Field Focus Motor And Mechanism For Optical Disk Drive

M-12081 US

(W0734777 JLC) Init:

09/950.397

United States

9/10/2001

Title

Digital Servo System With Inverse Non-Linearity Compensation



DocketNumber

ApplicationNumber

CountryName

ApplicationDate

M-12095 US

09/950,360

United States

9/10/2001

M-9115 US

United States

9/10/2001

Title

Title

09/950,516 Digital Focus And Tracking Servo System

M-12108 US

09/950,412

United States

9/10/2001

Title

Tracking And Focus Servo System With A Media Type Boundary Crossing Detector

Calibration Storage Methods For A Digital Focus And Tracking Servo System With Calibration

M-12112 US

09/950,540

United States

9/10/2001

Title

Tracking And Focus Servo System With Head Load

M-12026 US

09/951,329

United States

9/10/2001

Title

System And Method For Handling Events In An Optical Disc Drive

M-12111 US

09/950,361

United States

9/10/2001

Title

Tracking And Focus Servo System With Automatic Media Type Detector

M-12110 US

09/950,392

United States

9/10/2001

Title

Calibration Of Focus Error Signal Offset in A Focus Servo System

M-12109 US

09/950,548

United States

9/10/2001

Title

Calibration Of A Focus Error Signal Gain In A Focus Servo System

M-8726-1P US

09/802,708

United States

3/8/2001

Title

Continuous Flexible Connection Method For Miniature Optical Head

M-8534-3C US

10/274,487

United States

10/17/2002

Title

Removable Optical Storage Device And System

M-8778-2C US

10/290,067

United States

11/6/2002

Title

Miniature Optical Disk For Data Storage

M-8531-2C US

10/290,053

United States

11/6/2002

Title

Optical Recording Medium Including Licensed Information

M-9804-1C US

10/278,719

United States

10/22/2002

Title

Micro Lens And Method And Apparatus For Fabricating

M-8375-1C US

10/290,066

United States

11/6/2002

Title

Asynchronous Input/Output Interface

M-11533-1C US

M-8381-1C US

{W0734777 JLC}Init:

10/300,207

United States

11/19/2002

Title

Disk Carrier

10/299,950

United States

11/18/2002

Title

Defect Management System for Write-Once Storage Disk

DocketNumber ApplicationNumber Coun

CountryName

ApplicationDate

M-8746-3C US

10/285,387

United States

10/30/2002

Title

Low Profile And Medium Protecting Cartridge Assembly

M-8532-2C US

10/290,442

United States

11/6/2002

Title

Content Distribution Method And Apparatus

M-11969-1C US

10/360,725

United States

11/27/2002

Title

Disk Drive Actuator And Method Of Making Same

M-11533-1C US

10/300,207

United States

11/19/2002

Title

Disk Carrier

M-8377-1C US

10/293,893

United States

11/12/2002

Title

Method And Apparatus For Emulating Read/Write File System On A Write-Once Data Storage Disk

M-8531-1D US

09/721,587

United States

11/21/2000

Title

Combination Mastered And Writeable Medium And Use In Electronic Internet Applicance

M-9998-1P US

09/854,333

United States

5/11/2001

Title

Optical Data Storage With Enhanced Contrast

M-8532-1P US

09/489,084

United States

1/21/2000

Title

Flexible Content Distribution Method And Apparatus

M-8745-1P US

09/815,377

United States

3/21/2001

Title

Tilt Focus Method And Mechanism For An Optical Drive

M-12078 US

09/950,444

United States

9/10/2001

Title

Close Tracking Algorithm in A Digital Tracking Servo System

M-9796 US

09/946,071

United States

9/4/2001

Title

Title

Device And Method For Detecting Cartridge Readiness To Load in A Data Storage System

DM-196 US

29/163,408

United States

7/3/2002

Cartridge Protective Case

DM-186 US

29/160,536

United States

5/10/2002

Title

Cartridge For Data Storage Disk

M-8377 US

09/583,133

United States

5/30/2000

Title

Method and Apparatus for Emulating Read/Write File System on a Write-Once Storage Disk

M-8374 US

09/539,841

United States

3/31/2000

Title

File System Management Embedded in a Storage Device

M-8383 US

{W0734777 JLC}Init:

09/544,370

United States

4/6/2000

Title

System and Method for Aligning Components of Optical Head







DocketNumber
M_8381 US

ApplicationNumber

CountryName
United States

ApplicationDate

Title

Defect Management System for Write-Once Storage Disk

M-8375 US

09/539,842

United States

3/31/2000

5/30/2000

Title

Asynchronous Input/Output Interface Protocol

M-8532 US

09/393,899

United States

9/10/1999

Title

Content Distribution Method and Apparatus

M-8746 US

09/548,128

United States

4/12/2000

Title

Low Profile and Medium Protecting Cartridge Assembly

M-11533 US

09/920,004

United States

7/31/2001

Title

Disk Carrier

M-11969 US

09/815,293

United States

3/21/2001

Title

Disk Drive Actuator And Method Of Making Same

M-8379 US

09/542,681

United States

4/3/2000

Title

Structure And Method For Storing Data On Optical Disks

M-8729 US

09/745,597

United States

12/21/2000

Title

Crimping Tool For Metal Hub Plate



M-8376 US

09/583,452

United States

5/30/2000

Title

Method Of Decrypting Data Stored On A Storage Device Using An Embedded Encryption/Decryption Means

M-12015 US

10/106,475

United States

3/25/2002

Title

Inner Region Identifier For Optical Disk

M-11812 US

09/945,914

United States

9/4/2001

Title

Focus Stop For Limiting Actuator Assembly Focus Travel

M-11962 US

10/095,150

United States

3/8/2002

Title

Protective Enclosure For Data Storage Cartridge

M-12032 US

09/951,156

United States

9/10/2001

Title

System And Method For Controlling Spin Speed Of-Media In An Optical Disc Drive

M-12039 US

09/940,025

United States

8/27/2001

Title

System And Method For Identifying Vendors Of Hidden Content

M-12040 US

09/940,035

United States

8/27/2001

Title

Unlocking Method And System For Data On Media

M-12042 US

09/939,896

United States

8/27/2001

Title

Revocation Method And Apparatus For Secure Content

M-11814 US

{W0734777 JLC}Init:

09/946,075

United States

9/4/2001

Title.

Method For Aligning Actuator Assembly To A Base In A Miniature Optical Disk Drive





DocketNumber

ApplicationNumber

CountryName United States

ApplicationDate

M-8535 US

09/457,104

Title

Low Profile Optical Head

M-9998 US

09/764,042

United States

1/16/2001

12/7/1999

Title

First-Side Dual-Layer Optical Data Storage Disk And Method Of Manufacturing The Same

M-12139 US

09/900,722

United States

7/6/2001

Title

Facial Contact Lens System For Laser Diode

M-9848 US

09/846.042

United States

5/1/2001

Title

Optical Pick Up Unit Assembly Process

M-12038 US

09/940,174

United States

8/27/2001

Title

System And Method For Detecting Unauthorized Copying Of Encrypted Data

M-12013 US

10/085,682

United States

2/26/2002

Title

A Dual Density Disk With Associated Propertie

M-11628 US

10/056,927

United States

1/24/2002

Title

Use Of Mother Stamper For Optical Disk Molding

M-12043 US

09/939,960

United States

8/27/2001

Title

Mastering Process And System For Secure Content

M-11585 US

09/872,060

United States

6/1/2001

Title

Error Correction Code Block Format

M-11478 US

09/846.052

United States

5/1/2001

Title

Objective Lens Alignment In Optical Pickup Unit Assembly

M-11815 US

09/946,015

United States

9/4/2001

Title

Device And Method For Mounting A Spindle Motor To A Base In A Miniature Optical Disk Drive

M-12024 US

09/951,469

United States

9/10/2001

Title

System And Method For Controlling Time Critical Operations In A Control System For An Optical Disc Drive

M-12041 US

09/940,026

United States

8/27/2001

Title

Host Certification Method And System

M-8378 US

09/583,448

United States

5/30/2000

Title

Format For Recording Data On A Storage Disk

M-8380 US

09/552,288

United States

4/19/2000

Title

Power Management For Optical Drives

M-8745 US

09/557,284

United States

4/24/2000

Title

Tilt Focus Method And Mechanism For An Optical Drive

M-8730 US

09/745,399

United States

12/21/2000

Title

Disk Hub Centering Method

DocketNumberM-8727 US

ApplicationNumber 09/675,572

CountryName United States

ApplicationDate 9/29/2000

Disk Storage And Handling Magazine

PATENT

REEL: 027636 FRAME: 0879



Title

{W0734777 JLC}Init:



M-8726 US 09/679,941 United States

Continuous Flexible Connection Method For Miniature Optical Head

M-8725 US 09/680,106 **United States** 10/4/2000

Title Laser Thermal Management System

M-8382 US 09/542,510 United States 4/3/2000

Title Digital Rights Management Within An Embedded Storage Device

M-11681 US 09/945,944 **United States** 9/4/2001

Title Mechanism For Limiting Actuator Assembly Movement In A Data Storage/Retrieval System

M-9793 US 09/940,083 United States 8/27/2001

Title Secure Access Method And System

M-9803 US 09/666,627 United States 9/20/2000

Title Method And Apparatus For Compensating Optical Disks For Effects Of Thin Films

M-8778 US United States 09/560,781 4/28/2000

Miniature Optical Disk for Data Storage -Title

M-11097 US 09/950,398 **United States** 9/10/2001

Title Digital Focus And Tracking Servo System With Multi-Zone Calibration

09/730,647 M-8746-1P US 12/5/2000 United States

Low Profile Cartridge For Data Storage Disk

M-12177 US 09/951,940 United States 9/10/2001

Title System And Method For Controlling Focus In An Optical Disc Drive

M-9998-2P US 10/107,854 **United States** 3/25/2002

Title Double-Sided Hybrid Optical Disk With Surface Topology

M-12090 US 09/950,331 **United States** 9/10/2001

Title Digital Tracking Servo System With Multi-Track Seek With Track Zero Crossing Period Integrity Test

M-12092 US 09/950,376 United States 9/10/2001

Digital Focus And Tracking Servo System With One-Track Jump Title

M-12089 US 09/950,513 United States 9/10/2001

Digital Tracking Servo System With Multi-Track Seek With Track Zero Crossing Detection Title

M-12083 US 09/950,410 United States 9/10/2001

Digital Tracking Servo System With Tracking Skate Detection Title

M-12088 US **United States** 09/950,378 9/10/2001

Title Digital Tracking Servo System With Multi-Track Seeking With An Acceleration Clamp



(W0734777 JLC) Init:

PATENT REEL: 027636 FRAME: 0880

10/4/2000



DocketNumber 4 6 1

ApplicationNumber

CountryName

Application Date

M-12087 US

09/950,414

United States

9/10/2001

Title

Digital Tracking Servo System With A Multi-Track Seeking And Accelerted Servo Function For Regaining A Closed Tracking

Loop

M-12031 US

09/951,331

United States

9/10/2001

Title

System And Method For Controlling Tracking And Seeking In An Optical Disc Drive

M-12086 US

09/950,425

United States

9/10/2001

Title

Digital Tracking Servo System With Multi-Track Seek

M-12085 US

09/950,373

United States

9/10/2001

Digital Tracking And Focus Servo system With A DSP Architecture

M-12082 US

09/950,914

United States

9/10/2001

Title

Digital Servo System With Second Order Compensator

M-11813 US

09/946,038

United States

9/4/2001

Title

Eccentric CAM For Limiting Actuator Tracking

M-12025 US

09/951,337

United States

9/10/2001

Title

System And Method For Recovering From Performance Errors In An Optical Disc Drive

M-12028 US

09/951,931

United States

9/10/2001

Title

System And Method For Handling Commands In An Optical Disc Drive

M-12029 US

09/951,850

United States

9/10/2001

Title

System And Method For Dynamically Re-Calibrating An Optical Disc Drive

M-8535-1P US

09/540,657

United States

3/31/2000

Title

Low Profile Optical Head

M-12091 US

09/950,395

United States

9/10/2001

Digital Servo System With Biased Feed-Forward

M-8535-2P US

09/764,026

United States

1/16/2001

Title

Beamshaper For Optical Head

M-12099 US

09/950.520

United States

9/10/2001

Title

Calibration Of Tracking Error Signal Gain In A Tracking Servo System

M-12195 US

09/950,519

United States

9/10/2001

Title

Digital Servo System With Loop Gain Calibration

M-12093 US

09/950,393

United States

9/10/2001

Title

Digital Tracking Servo System With Off-Format Detection

M-12100 US

09/950,377

United States

United States

9/10/2001

9/10/2001

Title

Calibration Of Tracking Error Signal Offset In A Tracking Servo System

M-12103 US Title

09/950,415 Detector Input Stray Light Offset Calibration In An Optical Disk Drive

> **PATENT** REEL: 027636 FRAME: 0881

(W0734777 ILC) Init:



DocketNumber

ApplicationNumber

CountryName

ApplicationDate

M-8536 US

09/393,150

United States

Title

Writeable Medium Access Control Using A Medium Writeable Area

M-12104 US

09/950,432

United States

9/10/2001

9/10/1999

Title

Tracking And Focus Servo System With Anti-Skate Algorithm

M-12105 US

09/950,379

United States

9/10/2001

Title

Tracking And Focus Servo System With Defect Detection

M-12106 US

09/950,515

United States

9/10/2001

Title

Tracking And Focus Servo System With Direction Sensor

M-12107 US

09/950,411

United States

9/10/2001

Title

Tracking And Focus Servo System With Write Abort

M-12117 US

09/951,108

United States

9/10/2001

Title

CLV System And Method Of Using PSA

M-12094 US

09/950,396

United States

9/10/2001

Title

Digital Tracking And Focus Servo System With TES to FES Crosstalk Calibration

M-12118 US

09/951,869

United States

9/10/2001

Title

Slew System And Method



M-12097 US

09/950,541

United States

9/10/2001

Title

Calibration Initiation Methods For A Tracking And Focus Servo System

M-12102 US

09/950,512

United States

9/10/2001

Title

Detector Input Dark Current Offset Calibration In An Optical Disk Drive

M-12101 US

09/950,367

United States

9/10/2001

Title

Calibration Of Focus Sum Threshold In A Focus Servo System

M-12122 US

09/951,325

United States

9/10/2001

Title:

PMAD/PSA Digital Feedback System

M-12155 US

09/950,514

United States

9/10/2001

Title

Focus Servo System With A Silding Notch Fifter

M-12119 US

09/951,330

09/950,413

United States

9/10/2001

Title

Kp And Ki Lookup System And Method

United States

9/10/2001

Title

Digital Servo System With Error Signal Integrity Testing

M-12120 US

M-12080 US

09/951,340

United States

9/10/2001

Title

System And Method For Controlling Laser Power In An Optical Disc Drive

M-11682 US

09/946,845

United States

09/04/2001

Title

Data Cartridge Load/Unload Mechanism For Disk Drive



ATTACHMENT B

International Patent Applications

DocketNumber Application/Patent Number **CountryName ApplicationDate** M-8532-1P KR 7009303/2002 South Korea Flexible Content Distribution Method And Apparatus Title M-8534 CN 00810553.7 China P.R. 5/18/2000 Title Removable Optical Storage Device And System M-8536 KR 7003184/2002 South Korea 9/7/2000 Title Writeable Medium Access Control Using A Medium Writeable Area M-8532 KR 7003183/2002 South Korea 9/7/2000 Title Content Distribution Method And Apparatus M-8532 MX PA/A/2002/002609 Mexico 9/7/2000 Title Content Distribution Method And Apparatus M-8531 KR 7016483/2001 South Korea 6/22/2000 Title Combination Mastered And Writeable Medium And Use In Electronic Book Internet Appliance M-8534 KR 7014796/2001 South Korea 5/18/2000 Title Removable Optical Storage Device And System M-11478 WO PCT/US02/13867 Patent Cooperation Treaty 5/2/2002 Title Objective Lens Alignment In Optical Pickup Unit Assembly M-8532-1P MX PA/A/2002/007151 Mexico 1/18/2001 Title Flexible Content Distribution Method And Apparatus M-8532-1P SG 200204309-9 Singapore 1/18/2001 ag Title Flexible Content Distribution Method And Apparatus M-8534 CA 2,371,370 Canada 5/18/2000 Title Removable Optical Storage Device And System M-9998-2P WO PCT/US02/13865 Patent Cooperation Treaty 5/2/2002 Title A Double Sided Hybrid Optical Disk with Surface Topology M-8375 WO PCT/US01/09907 Patent Cooperation Treaty 3/28/2001 Title Asynchronous Input/Output Interface Protocol. M-8376 WO PCT/US01/17245 Patent Cooperation Treaty Title Method Of Decrypting Data Stored On A Storage Device Using An Embedded Encryption/Decryption Means

PCT/US01/28063

PCT/US02/02221

Optical Disk Drive With Digital Focus And Tracking Servo System

Micro Lens And Method and Apparatus For Fabricating

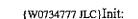
PATENT REEL: 027636 FRAME: 0883

9/7/2001_,

1/22/2002

Patent Cooperation Treaty

Patent Cooperation Treaty



M-9804 WO

M-9115 WO

Title

Title

M-8532 WO
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M-8726 WO
Title Co

M-8745-1P WO
Title Till

M-8730 WO
Title Dis

M-11969 WO
Title Dis

M-9998-1P WO
Title Op

M-8532 WO PCT/US00/24717

Title Content Distribution Method and Apparatus

PCT/US01/02112 Patent Cooperation Treaty

Patent Cooperation Treaty

Title Flexible Content Distribution Method And Apparatus

M-8726 WO PCT/US01/30580 Patent Cooperation Treaty 9/28/2001

Title * Continuous Flexible Connection Method For Miniature Optical Head

M-8745-1P WO PCT/US02/08562 Patent Cooperation Treaty 3/19/2002

Title Tilt Focus Method And Mechanism For An Optical Drive

M-8730 WO PCT/US01/50234 Patent Cooperation Treaty 12/19/2001

Title Disk Hub Centering Method

M-11969 WO PCT/US02/08556 Patent Cooperation Treaty 3/19/2002

Title Disk Drive Actuator And Method Of Making Same

M-9998-1P WO PCT/US02/00824 Patent Cooperation Treaty 1/9/2002

Title Optical Data Storage Media With Enhanced Contrast

M-9793 WO PCT/US02/27303 Patent Cooperation Treaty 8/26/2002

Title A Secure Access Method And System

M-9998 WO PCT/US02/00828 Patent Cooperation Treaty 1/9/2002

Title First-Side Dual-Layer Optical Data Storage Disk And Method Of Manufacturing The Same

M-11585 WO PCT/US02/15704 Patent Cooperation Treaty 5/15/2002

Title Error Correction Code Block Format

M-9803 WO PCT/US01/42250 Patent Cooperation Treaty 9/19/2001

Title Method And Apparatus For Compensating Optical Disks For Effects Of Thin Films

M-11096 WO PCT/US02/01841 Patent Cooperation Treaty 1/18/2002

Title Spin Motor Control In An Optical Drive

M-9848 WO PCT/US02/11708 Patent Cooperation Treaty 5/1/2001

Title Optical Pickup Unit Assembly Process

M-11533 WO 9 PCT/US02/23837 Patent Cooperation Treaty 7/26/2002

Title Disk Carrier

M-8381 WO PCT/US01/17494 Patent Cooperation Treaty 5/29/2001

Title Defect Management System For Write-Once Storage Disk

M-8377 WO PCT/US01/17493 Patent Cooperation Treaty 5/29/2001

Title Method And Apparatus For Emulating Read/Write File System On A Write-Once Data Storage Disk

M-8378 WO PCT/US01/17621 Patient Cooperation Treaty 5/30/2001

Title Format For Recording Data On A Storage Disk

M-9802 WO PCT/US01/27036 Patent Cooperation Treaty 8/29/2001

Title Double-Sided Digital Optical Disk And Method And Apparatus For Making

PATENT REEL: 027636 FRAME: 0884

9/7/2000

1/18/2001









European Patent Convention 3/28/2001 M-8374 EP 01926462.1 Title File System Management Embedded In A Storage Device M-8534 EP 00932592.9 European Patent Convention 5/18/2000 Removable Optical Storage Device And System Title Taiwan 4/18/2001 M-8380 TW 90109331 Title Power Management for Optical Drives 90107265163246 Taiwan 9/11/2002 M-8379 TW Structure And Method For Storing Data On Optical Disks Title 90101187163133 Taiwan 9/10/2002 M-8532-1P TW Flexible Content Distribution Method And Apparatus Title 9/7/2000 M-8532 CA 2,384,680 Canada: Title Content Distribution Method And Apparatus 2,374,173 Canada 6/22/2000 M-8531 CA Combination Mastered And Writeable Medium And Use in Electronic Book Internet Appliance Title 1/18/2001 Canada M-8532-1P CA 2,397,777 Flexible Content Distribution Method And Apparatus Title 200107743-7 Singapore 12/14/2001 M-8531 SG Combination Mastered And Writeable Medium And Use in Electronic Book Internet Appliance Title 1/10/2003 Awaiting Receipt Singapore M-9998-2P SG Title A Double-Sided Hybrid Optical Disk With Surface Topology China P.R. M-9998-2P CN Awaiting Receipt A Double-Sided Hybrid Optical Disk With Surface Topology Title M-8531 CN 00809435.7 China P.R. 6/22/2000 Combination Mastered And Writeable Medium And Use In Electronic Book Internet Appliance Title 1/18/2001 China P.R. M-8532-1P CN 01805910.4 Flexible Content Distribution Method And Apparatus Title China P.R. 9/7/2000 M-8532 CN 00814433.8 Title Content Distribution Method And Apparatus Taiwan 5/29/2001 M-8375 TW 90107566 Asynchronous Input/Output Interface Protocol Title Taiwan 6/14/2001 M-8746 TW 90108476 Low Profile and Medium Protecting Cartridge Assembly Title M-8378 TW 8/24/2001 90112821 Taiwan Title Format for Recording Data on a Storage Disk Taiwan 5/29/2001 M-8374 TW 90107565

File System Management Embedded In A Storage Device



Title



M-8778-1P TW 90109690 4/28/2000 Talwan Magnetic Hub Assembly For Data Storage Disk Title M-8746-1P TW 90108699 4/11/2001 Taiwan Title Low Profile Cartridge For Data Storage Disk M-8535-1P TW 89125819 Taiwan 3/31/2000 Title Low Profile Optical Head M-8377 TW 90112823 Taiwan 5/30/2000 Title Method And Apparatus For Emulating Read/Write File System On A Write-Once Data Storage Disk M-9793 TW 91119311 Taiwan 8/26/2002 Title A Secure Access Method And System M-9804 TW 90122393 9/20/2000 Taiwan Title Micro Lens And Method And Apparatus For Fabricating M-8778 TW 901096989 Taiwan 4/28/2000 Title Miniature Optical Disk For Data Storage M-11533 TW 91116633 7/31/2001 Taiwan Title Disk Carrier M-9998-1P TW 91100211 Taiwan 1/16/2001 Title Optical Data Media With Enhanced Contrast M-11681 TW 91119979 Taiwan 9/4/2001 Optical Disk Drive Actuator Assembly Title M-9802 TW 90121232 Taiwan 8/31/2000 Title Double-Sided Digital Optical Disk And Method And Apparatus For Making M-9803 TW 90123255 。Talwan 9/20/2001 Method And Apparatus For Compensating Optical Disks For Effects Of Thin Films Title 1/25/2001 M-9115 TW 91101100 Taiwan Digital Focus And Tracking Servo System With Multi-Zone Calibration Title. 1/25/2001 M-11096 TW 91100909 Taiwan Title Spin Motor Control In An Optical Drive M-11098 TW Taiwan 1/25/2001 91100910 Title System And Method For Controlling An Optical Disc Drive 5/1/2001 M-9848 TW 91107661 Taiwan Title Optical Pickup Unit Assembly Process 91100212 Taiwan 1/16/2001 M-9998 TW Title First-Side Dual-Layer Optical Data Storage Disk And Method Of Manufacturing The Same M-11478 TW 91108600 Taiwan 5/1/2001 Title Objective Lens Alignment In Optical Pickup Unit Assembly

(W0734777 ILC) Init:

91109394 M-9998-2P TW 5/11/2001 Taiwan

Title A Double Sided Hybrid Optical Disk With Surface Topology

M-8376 TW 90112447163260 Talwan 5/30/2000

Title Method Of Decrypting Data Stored On A Storage Device Using An Embedded Encryption/Decryption Means

M-9998-2P KR 7000443/2003 South Korea 1/11/2003

Title A Double-Sided Hybrid Optical Disk With Surface Topology

3/28/2001 M-8374 KR 7012836/2002 South Korea

File System Management Embedded In A Storage Device Title

7009926/2003 M-8535-1P KR South Korea 12/5/2000

Title Low Profile Optical Head

M-11628 TW Awaiting Receipt Taiwan

Title Use Of Mother Stamper For Optical Disk Molding

M-8382 TW 90107967 4/3/2000 Taiwan

Title Digital Rights Management Within An Embedded Storage Device

89112417 6/23/1999 M-8531 TW Taiwan

Title Combination Mastered And Writeable Medium And Use in Electronic Book Internet Appliance

89118490156979 Taiwan 9/10/1999 M-8532 TW

Content Distribution Method And Apparatus Title

M-8534 TW 89109720 Taiwan 8/21/2000

Title First Surface Optical Data Storage Disk Containing Phase Change Recording Layer and Housed in Cartridge

M-8536 EP 00961729.1 European Patent Convention 9/7/2000

Writeable Medium Access Control Using A Medium Writeable Area Title

M-8535-1P EP 00982448.3 European Patent Convention 12/5/2000

Title Low Profile Optical Head

European Patent Convention 1/18/2001 M-8532-1P EP 01904989.9

Title Flexible Content Distribution Method And Apparatus

M-8531 EP 00943104.0 European Patent Convention 6/22/2000

Combination Mastered And Writeable Medium And Use In Electronic Book Internet Appliance Title

M-8532 EP European Patent Convention 9/7/2000 00961702.8

Title Content Distribution Method And Apparatus

M-8374 JP Japan

File System Management Embedded In A Storage Device

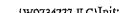
Title 🍃

M-8532 JP 2001-522467 Japan 9/7/2000

Title Content Distribution Method And Apparatus

1/18/2001 M-8532-1P JP 2001-553301 Japan

Flexible Content Distribution Method And Apparatus Title



M-8534 JP 2000-620625 5/18/2000 Japan Removable Optical Storage Device And System Title M-8531 JP 2001-505008 6/22/2000 Japan Title Combination Mastered And Writeable Medium And Use In Electronic Book Internet Appliance M-8535-1P JP 2001-543729 12/5/2000 Japan Title Low Profile Optical Head 12/5/2000 M-8535-1P AU 19475/01 Australia Title Low Profile Optical Head M-8532 AU 73620/00 Australia 9/7/2000 Content Distribution Method and Apparatus Title. M-8536 AU 73644/00 Australia 9/7/2000 Writeable Medium Access Control Using a Medium Writeable Area Title 6/22/2000 M-8531 AU 57622/00 Australia Combination Mastered and Writeable Medium and Use in Electronic Book Internet Appliance Title Australia 1/18/2001 M-8532-1P AU 32913/01 Flexible Content Distribution Method and Apparatus Title 50290/00 Australia 5/18/2000 M-8534 AU Removable Optical Storage Device and System Title 9/7/2000 M-8532 SG 200201325-8 Singapore Content Distribution Method And Apparatus Title Singapore 5/18/2000 M-8534 SG 200107137-2 Title Removable Optical Storage Device And System 5/18/2000 PA/A/2001/011917 Mexico M-8534 MX Removable Optical Storage Device And System Title 6/22/2000 M-8531 MX PA/A/2002/000121 Mexico Combination Mastered And Writeable Medium And Use In Electronic Book Internet Appliance Title. M-8383 TW 90107779 Taiwan 3/30/2001 System And Method For Aligning Components Of Optical Head Title 08/29/2001 M-9802 EP Awaiting Receipt Europe Double-Sided Digital Optical Disk And Method And Apparatus For Making Title PCT 02/26/2003 M-12013 WO Awaiting Receipt **Dual Density Disc With Associated Properties** Title 02/26/2002 M-12013 TW Awaiting Receipt Talwan **Dual Density Disc With Associated Properties** Title **PCT** 01/09/2002 M-8535-2P WO PCT/US02/00875 Title Beamshaper For Optical Head

maaaaaa II Clinite

M-8746-1P WO

PCT/US02/08562

PCT

03/19/2002

Title

Low Profile And Medium Protecting Cartridge Assembly

PATENT

ATTACHMENT C



Disclosures

DocketNumber

Status r

Country

M-11534 US

DISCLOSED

United States

Title

Method For Creating, Or "Premastering" The File System For A DataPlay Disc Using A Computer

M-11949 US

DISCLOSED

United States

Title

Track Crossing Direction Determination a

M-11627 US

DISCLOSED

United States

Title

Quad Film Structure For First Surface Optical Medium

M-11950 US

DISCLOSED

United States

Title

Eject Limiter Lever

PATENT REEL: 027636 FRAME: 0890



RECORDEDI: 02/01/2012