### 501759672 12/16/2011

### 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/frame no. 017426/0580.	

### **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:	7079459	

### **CORRESPONDENCE DATA**

Fax Number: (949)202-3138

Email: pia.kamath@haynesboone.com

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.

Address Line 1: 2323 Victory Avenue, Suite 700

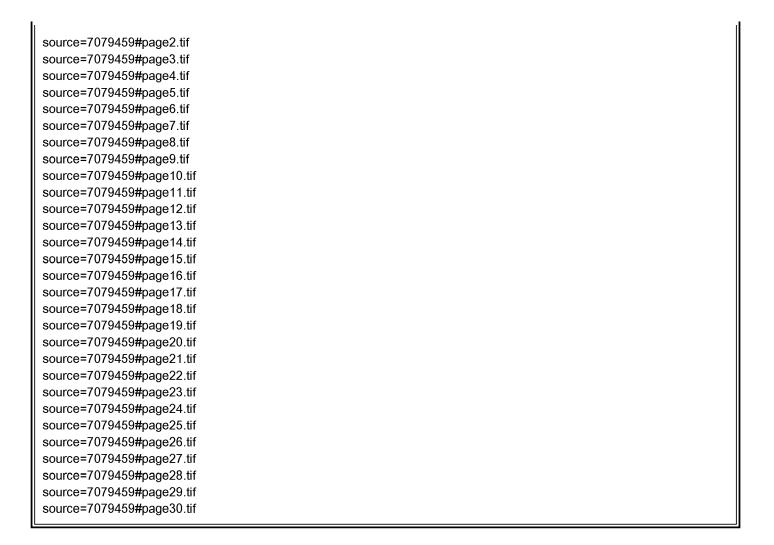
Address Line 4: Dallas, TEXAS 75219

ATTORNEY DOCKET NUMBER:	M-12147 US	
NAME OF SUBMITTER:	Jonathan W. Hallman	

**Total Attachments: 30** source=7079459#page1.tif

PATENT REEL: 027401 FRAME: 0183 **JP \$40.00 7079459** 

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4/6/06 9:09 PAGE 004/005

Fax Server

## PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1 04/05/2006 500091182

BMISSION TYPE:	NEW ASSIGNMENT
BMISSION TYPE:	NEW ASSIGNMENT

**ASSIGNMENT** NATURE OF CONVEYANCE:

#### **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:	09951475	

## **CORRESPONDENCE DATA**

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Ste. 210

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ATTORNEY DOCKET NUMBER:

M-12147 US

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 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 place of business at 4430 Arapahoe Avenue, Suite 220, Boulder, Colorado 80303 (SVB, GATX place of business at 4430 Arapahoe avenue, Suite 220, Boulder, Colorado 80303 (SVB, GATX place of business at 4430 Arapahoe Avenue, Suite 220, Boulder, Colorado 80303 (SVB, GATX 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 caruses 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 sarrie or to enforce any claim or right of any kind with respect thereto. This includes, but is not limited 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 infriringed 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, royalry-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 INCLUDING THE ASSIGNORS' REPRESENTATIONS AND AND ASSIGNEE. WARRANTIES SET FORTH THEREIN, ALL OF WHICH APPLY TO THIS 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 OR FOR A USE TECHNOLOGY FOR COMPLIANCE THE TECHNOLOGY; THE OF MERCHANTABILITY

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ANY LAWS, RULES. REQUIREMENTS OF THE WITH TECHNOLOGY THERETO: PATENT PERTAINING CONTRACTS INFRINGEMENT; LATENT DEFECTS; THE QUALITY OF THE MATERIAL OR OR WORKMANSHIP OF THE TECHNOLOGY OR THE CONFORMITY OF 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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	abia Assignment to be signed in Assign Orrs'
IN WITNESS WHEREOF, Assignors have cause name.	d Cilis Abaigimann
SILICON VALLEY BANK	0 1 1 1
Date: 3-4-2003	Signature of Assignor
	Marla Johnson, Seniar Vice President
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

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

	A salianment to be signed in Assign Ors'
IN WITNESS WHEREOF, Assignors have cause name.	d this Assignment to be a
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	Ma
Date: 3-5-03	Signature of Assignor
	To ke T. GREFF MANNER.  Printed Name and Title

## ATTACHMENT A

United States Patent Applications

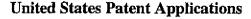
# ATTACHMENT B

International Patent Applications

## ATTACHMENT C

Disclosures

## ATTACHMENT A



**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

M-8534 US

Micro Lens and Method and Apparatus for Fabricating

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

09/950,409

**United States** 

9/10/2001

Title

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

**PATENT** REEL: 027401 FRAME: 0196

(W0734777 JLC)Init:



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** 

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

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** 

9/10/2001

Title

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

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 Fleld Focus Motor And Mechanism For Optical Disk Drive

M-12081 US

09/950,397

" United States

9/10/2001

Title

Digital Servo System With Inverse Non-Linearity Compensation



**PATENT** REEL: 027401 FRAME: 0197

{W0734777 JLC}Init:

**DocketNumber** 

ApplicationNumber

CountryName

**ApplicationDate** 

M-12095 US

09/950,360

**United States** 

9/10/2001

Title

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

M-9115 US

09/950,516

**United States** 

9/10/2001

Title

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

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

Tracking And Focus Servo System With Automatic Media Type Detector Title

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

{W0734777 JLC}Init:

10/300,207

United States

11/19/2002

Title

Disk Carrier

M-8381-1C US 10/299,950 **United States** 

11/18/2002

Title

Defect Management System for Write-Once Storage Disk



Doci

DocketNumber ApplicationNumber 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 Device And Method For Detecting Cartridge Readlness To Load In A Data Storage System

**DM-196 US** 29/163,408 United States 7/3/2002

Title 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 09/544,370 United States 4/6/2000

Title System and Method for Aligning Components of Optical Head

PATENT REEL: 027401 FRAME: 0199

{W0734777 JLC}Init



**DocketNumber ApplicationNumber**  **CountryName** 

**ApplicationDate** 

M-8381 US

09/583,390

**United States** 

5/30/2000

Title

Defect Management System for Write-Once Storage Disk

M-8375 US

09/539,842

**United States** 

3/31/2000

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

09/946.075

United States

9/4/2001

Title

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

**PATENT** {W0734777 JLC}Init: REEL: 027401 FRAME: 0200



DocketNumber M-8535 US Title

**ApplicationNumber** 

Country Name

**ApplicationDate** 

09/457,104

United States

12/7/1999

Low Profile Optical Head

M-9998 US

09/764,042 United States 1/16/2001

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

09/951.469

United States

9/4/2001

Title

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

**United States** 

9/10/2001

M-12024 US 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 Power Management For Optical Drives

M-8730 US

09/745,399

United States

4/19/2000

M-8745 US Title

Title

09/557,284

United States

4/24/2000

Tilt Focus Method And Mechanism For An Optical Drive

**United States** 

12/21/2000

9/29/2000

Title

Disk Hub Centering Method

CountryName

**ApplicationDate** 

Title

Disk Storage And Handling Magazine

**PATENT** 

REEL: 027401 FRAME: 0201

DocketNumber M-8727 US

**ApplicationNumber** 

09/675,572

**United States** 

{W0734777 JLC}Init:



M-8726 US 09/679,941 United States 10/4/2000

Title 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 09/560,781 United States 4/28/2000

Title Miniature Optical Disk for Data Storage

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

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

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

Title 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

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

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

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

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

Title Digital Tracking Servo System With Tracking Skate Detection

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

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



{W0734777 JLC}Init:

**ApplicationNumber** DocketNumber

CountryName

**ApplicationDate** 

M-12087 US

09/950,414

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

9/10/2001

Title Loop

**United States** 

9/10/2001

Title.

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

M-12086 US

M-12031 US

09/950,425

09/951,331

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

Title

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

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

Title

Digital Servo System With Blased 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

9/10/2001

Title

Calibration Of Tracking Error Signal Offset In A Tracking Servo System

M-12103 US

09/950,415

**United States** 

9/10/2001

Title

Detector Input Stray Light Offset Calibration In An Optical Disk Drive

**PATENT** REEL: 027401 FRAME: 0203

(W0734777 JLC)Init:



DocketNumberApplicationNumberCountryNameApplicationDateM-8536 US09/393,150United States9/10/1999

Title Writeable Medium Access Control Using A Medium Writeable Area

M-12104 US 09/950,432 United States 9/10/2001

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 Sliding Notch Filter

M-12119 US 09/951,330 United States 9/10/2001

Title Kp And Ki Lookup System And Method

**M-12080 US** 09/950,413 United States 9/10/2001

Title Digital Servo System With Error Signal Integrity Testing

M-12120 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

(W0734777 JLC)Init:

## <u>ATTACHMENT B</u>

## **International Patent Applications**

**DocketNumber** Application/Patent Number Country Name **ApplicationDate** M-8532-1P KR 7009303/2002 South Korea Title Flexible Content Distribution Method And Apparatus

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

7014796/2001 South Korea 5/18/2000

M-8534 KR Title Removable Optical Storage Device And System

PCT/US02/13867 M-11478 WO 5/2/2002

Patent Cooperation Treaty 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 1/18/2001 Singapore 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

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 5/25/2001

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

M-9804 WO PCT/US01/28063 Patent Cooperation Treaty 9/7/2001

Micro Lens And Method and Apparatus For Fabricating Title

M-9115 WO PCT/US02/02221 Patent Cooperation Treaty 1/22/2002

Optical Disk Drive With Digital Focus And Tracking Servo System Title

A Double Sided Hybrid Optical Disk with Surface Topology

**PATENT** {W0734777 JLC}Init: REEL: 027401 FRAME: 0205



Title

Title





M-8532 WO PCT/US00/24717 Patent Cooperation Treaty 9/7/2000

Title Content Distribution Method and Apparatus

M-8532-1P:WO PCT/US01/02112 Patent Cooperation Treaty 1/18/2001

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 PCT/US02/23837 Patent Cooperation Treaty 7/26/2002

Title Disk Carrier

(W0734777 JLC) Init:

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 Patent 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



M-8374 EP Title

01926462.1

European Patent Convention 3/28/2001

File System Management Embedded In A Storage Device

M-8534 EP

00932592.9

European Patent Convention 5/18/2000

Title

Removable Optical Storage Device And System

M-8380 TW

90109331

Taiwan

4/18/2001

Title

Power Management for Optical Drives

M-8379 TW

90107265163246

Taiwan

9/11/2002

Title

Structure And Method For Storing Data On Optical Disks

M-8532-1P TW

90101187163133

Taiwan

9/10/2002

Title

Flexible Content Distribution Method And Apparatus

M-8532 CA

2,384,680

Canada:

9/7/2000

Title

Content Distribution Method And Apparatus

M-8531 CA

2.374.173

Canada

6/22/2000

Title

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

M-8532-1P CA

2,397,777

Canada

1/18/2001

Title

Flexible Content Distribution Method And Apparatus

M-8531 SG

200107743-7

Singapore

12/14/2001

Title

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

M-9998-2P SG

Awaiting Receipt

Singapore

1/10/2003

Title

A Double-Sided Hybrid Optical Disk With Surface Topology

M-9998-2P CN

Awaiting Receipt

China P.R.

Title

A®Double-Sided Hybrid Optical Disk With Surface Topology

M-8531 CN

00809435.7

China P.R.

6/22/2000

Title

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

M-8532-1P CN

01805910.4

China P.R.

1/18/2001

Title

Flexible Content Distribution Method And Apparatus

M-8532 CN

00814433.8

China P.R.

9/7/2000

Title

Content Distribution Method And Apparatus

M-8375 TW

90107566

Taiwan

5/29/2001

Title

Asynchronous Input/Output Interface Protocol

M-8746 TW

90108476

Taiwan

6/14/2001

Title

Low Profile and Medium Protecting Cartridge Assembly

M-8378 TW

90112821

Taiwan

8/24/2001

Title

Format for Recording Data on a Storage Disk

M-8374 TW

90107565

Taiwan

5/29/2001

Title

File System Management Embedded In A Storage Device

**PATENT** REEL: 027401 FRAME: 0207

{W0734777 JLC}Init:

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

{W0734777 JLC}Init:

M-9998-2P TW Title

91109394

Taiwan

5/11/2001

A Double Sided Hybrid Optical Disk With Surface Topology

M-8376 TW

90112447163260

Taiwan

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

M-8374 KR

7012836/2002

South Korea

3/28/2001

Title

File System Management Embedded in A Storage Device

M-8535-1P KR

7009926/2003

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

Taiwan

4/3/2000

Title

Digital Rights Management Within An Embedded Storage Device

M-8531 TW

89112417

Taiwan

6/23/1999

Title

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

M-8532 TW

89118490156979

Taiwan

9/10/1999

Title

Content Distribution Method And Apparatus

M-8534 TW

89109720

Talwan

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

Title

Writeable Medium Access Control Using A Medium Writeable Area

M-8535-1P EP

00982448.3

European Patent Convention 12/5/2000

Title

Low Profile Optical Head

M-8532-1P EP

01904989.9

European Patent Convention 1/18/2001

Title

Flexible Content Distribution Method And Apparatus

M-8531 EP

00943104.0

European Patent Convention 6/22/2000

Title

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

M-8532 EP

00961702.8

European Patent Convention 9/7/2000

Title

Content Distribution Method And Apparatus

M-8374 JP

Japan

Title

File System Management Embedded in A Storage Device

M-8532 JP

2001-522467

Japan

9/7/2000

Title

Content Distribution Method And Apparatus

M-8532-1P JP

2001-553301

Japan

1/18/2001

Title

Flexible Content Distribution Method And Apparatus

**PATENT** REEL: 027401 FRAME: 0209

{W0734777 JLC}Init:

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

Title Beamshaper For Optical Head

M-8535-2P WO

{W0734777 JLC}Init:

PCT/US02/00875

**PATENT** REEL: 027401 FRAME: 0210

PCT

01/09/2002

M-8746-1P WO

PCT/US02/08562

PCT

03/19/2002

Title

Low Profile And Medium Protecting Cartridge Assembly

PATENT

{W0734777 JLC}Init:

REEL: 027401 FRAME: 0211

# **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: 027401 FRAME: 0212

{W0734777 JLC}Init:

RECORDED ?12/16/2011