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## **Electronic Patent Assignment System**

# **Confirmation Receipt**

Your assignment has been received by the USPTO. The coversheet of the assignment is displayed below:

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	Addition of the missing text for Exhibits A-C for the previously recorded assignment at reel/frame no. 017042/0854.

#### **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:	7196979

**PATENT** 

Page 2 of 3

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	mail address first; if that is unsuccessful, it will be sent via US Mail.
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Date:	12/16/2011
Total Attachments: 32	
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Receipt Date:	12/16/2011

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PAGE 004/005

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## PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1 01/20/2006 500072483

SUBMISSION TYPE: 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:	09950360

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ATTORNEY DOCKET NUMBER:

M-12095 US

NAME OF SUBMITTER:

Jonathan W. Hallman

Total Attachments: 9

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PATENT

**REEL: 027654 FRAME: 0049** 

## ASSIGNMENT

HAYNES & BOONE

This Assignment ("Assignment") is effective as of the date of execution between 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 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

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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 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, 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 AND ASSIGNEE, INCLUDING THE ASSIGNORS' REPRESENTATIONS 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: THE PARTICULAR USE OR FOR FOR TECHNOLOGY THE COMPLIANCE TECHNOLOGY: THE OF MERCHANTABILITY

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LAWS, ANY OF REQUIREMENTS THE WITH TECHNOLOGY THERETO: PERTAINING CONTRACTS **SPECIFICATIONS** OR INFRINGEMENT; LATENT DEFECTS; THE QUALITY OF THE MATERIAL OR WORKMANSHIP OF THE TECHNOLOGY OR THE CONFORMITY OF TECHNOLOGY TO THE PROVISIONS AND SPECIFICATIONS OF ANY PURCE-LASE 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.

Assignce 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. Assignce 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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IN WITNESS WHEREOF, Assignors have cause name.	d this Assignment to be signed in 1 more 2.5
SILICON VALLEY BANK	
Date: 3-4-2003	Signature of Assignor
	Maria Johnson, Senier Vice President 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

4

(W0734733 JLC)

IN WITNESS WHEREOF, Assignors have cause name.	ed this Assignment to be signed in the 5-15
SILICON VALLEY BANK	
Date:	Signature of Assignor
	Printed Name and Title
GATX VENTURES, INC.	C Ma
Date: 3-4-2003	Signature of Assignor
• •	Printed Name and Title
SEQUEL ENTREPRENEURS' FUND II, L.P. as Collateral Agent	
Date:	Signature of Assignor
	Printed Name and Title

1

(W0734733 JLC)

IN WITNESS WHEREOF, Assignors have cause	d this Assignment to be signed in Assign Ors'
name.	
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: 2-5.03	Ma
	Signature of Assignor  John T. GREFE MAUREN  Printed Name and Title

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# ATTACHMENT A

United States Patent Applications

## ATTACHMENT B

**International Patent Applications** 

ATTACHMENT C

Disclosures

PATENT

REEL: 027654 FRAME: 0058



## **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

System And Method For Performing A Spin Motor Startup Operation Title.

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

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

Close Focus Algorithm In A Digital Focus Servo System Title

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** 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 System And Method For Controlling Interrupts in A Control System For An Optical Disc Drive Title

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 09/950,397 . United States 9/10/2001

Title Digital Servo System With Inverse Non-Linearity Compensation



{W0734777 JLC}Init:



**DocketNumber ApplicationNumber CountryName ApplicationDate** M-12095 US 09/950,360 **United States** 9/10/2001 Calibration Storage Methods For A Digital Focus And Tracking Servo System With Calibration Title 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 09/950,540 M-12112 US United States 9/10/2001 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 10/300,207 **United States** 11/19/2002 Title Disk Carrier

**United States** 



M-8381-1C US

{W0734777 JLC} Init:

Title

10/299,950

Defect Management System for Write-Once Storage Disk

REEL: 027654 FRAME: 0061

**PATENT** 

11/18/2002

7,



**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

Tale

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

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

Title

Close Tracking Algorithm In A Digital Tracking Servo System

M-9796 US

09/946,071

**United States** 

9/4/2001

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

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

**United States** 

3/31/2000

M-8374 US Title

File System Management Embedded in a Storage Device

M-8383 US

09/544,370

Title



**PATENT** REEL: 027654 FRAME: 0062

(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

Disk Drive Actuator And Method Of Making Same Title

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** 

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

Tîtle 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** 

REEL: 027654 FRAME: 0063



(W0734777 JLC) Init:



DocketNumberApplicationNumberCountryNameApplicationDateM-8535 US09/457,104United States12/7/1999

Title Low Profile Optical Head

M-998 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 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

DocketNumberApplicationNumberCountryNameApplicationDateM-8727 US09/675.572United States9/29/2000

M-8727 US 09/675,572 United States 9/29/2000

Title Disk Storage And Handling Magazine

PATENT

{W0734777 JLC}Init: REEL: 027654 FRAME: 0064



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

09/945,944

**United States** Digital Rights Management Within An Embedded Storage Device

4/3/2000

Title

**United States** 

9/4/2001

Title

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

M-9793 US

M-11681 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

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



**PATENT** REEL: 027654 FRAME: 0065

(W0734777 JLC) Init:



**DocketNumber** M-12087 US

**ApplicationNumber** 

**CountryName** 

**ApplicationDate** 

Title

09/950,414

**United States** 

9/10/2001 Digital Tracking Servo System With A Multi-Track Seeking And Accelerted Servo Function For Regaining A Closed Tracking

Loop

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

M-12031 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

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

**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

Title

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** 

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: 027654 FRAME: 0066



DocketNumber 1 4 1 ApplicationNumber CountryName **ApplicationDate** M-8536 US 09/393,150 **United States** 9/10/1999 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 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 Calibration Of Focus Sum Threshold In A Focus Servo System Title 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

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



PATENT REEL: 027654 FRAME: 0067

9/10/2001



## **ATTACHMENT B**

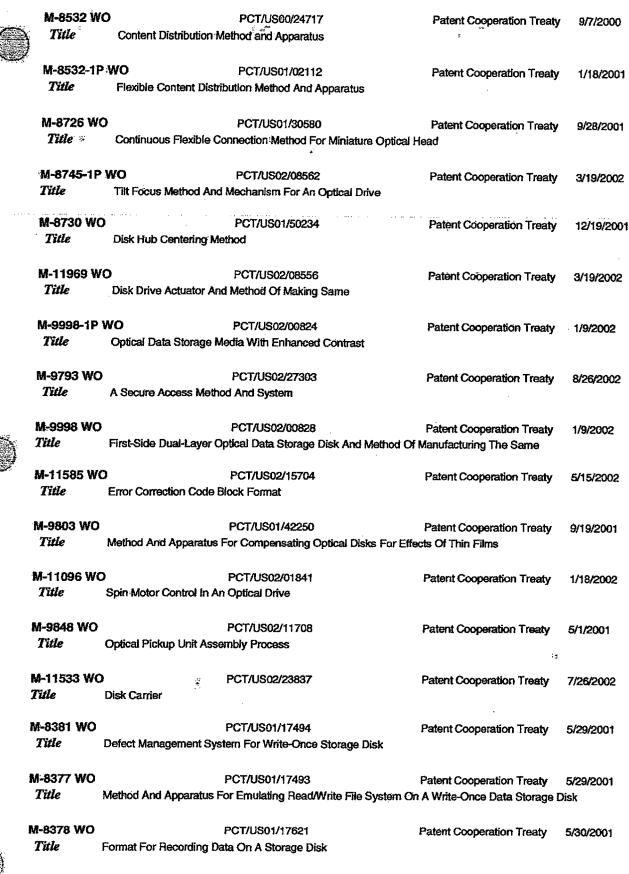
## **International Patent Applications**

		•		
DocketN	umber	Application/Patent Nu	mber CountryName	ApplicationDate
M-8532-1 Title		7009303/2002 tion Method And Apparatus	South Korea	
M-8534 C Title		00810553.7 Storage Device And System	China P.R.	5/18/2000
M-8536 K <i>Title</i>		7003184/2002 Access Control Using A Medium	South Korea Writeable Area	9/7/2000
M-8532 K <i>Title</i>		7003183/2002 Method And Apparatus	South Korea	9/7/2000
M-8532 M <i>Title</i>		PA/A/2002/002609 Method And Apparatus	Mexico	9/7/2000
M-8531 Ki <i>Title</i>	-	7016483/2001 ed And Writeable Medium And U	South Korea Ise In Electronic Book Internet Appliance	6/22/2000
M-8534 KF		7014796/2001 Storage Device And System	South Korea	5/18/2000
, M-11478 V <i>Title</i>	· ·	PCT/US02/13867 ment In Optical Pickup Unit Asso	Patent Cooperation Treaty embly	5/2/2002
M-8532-1P <i>Title</i>		PA/A/2002/007151 ribution Method And Apparatus	Mexico	1/18/2001
M-8532-1P Tülë		200204309-9 ribution Method And Apparatus	Singapore	1/18/2001 🚙
M-8534 CA Title		2,371,370 torage Device And System	Canada	5/18/2000
M-9998-2P <i>Title</i>		PCT/US02/13865 d Optical Disk with Surface Top	Patent Cooperation Treaty blogy	5/2/2002
M-8375 WO <i>Title</i>		PCT/US01/09907 Output Interface Protocol.	Patent Cooperation Treaty	3/28/2001
- M-8376 WO <i>Title</i>		PCT/US01/17245 Data Stored On A Storage Dev	Patent Cooperation Treaty ice Using An Embedded Encryption/Decry	5/25/2001 yption Means
M-9804 WO Title		PCT/US01/28063 od and Apparatus For Fabricatin	Patent Cooperation Treaty	9/7/2001
M-9115 WO Title		PCT/US02/02221 n Digital Focus And Tracking Se	Patent Cooperation Treaty rvo System	1/22/2002



{W0734777 JLC} Init:

**2** 0030/0036



PCT/US01/27036

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



M-9802 WO

{W0734777 JLC}Init:

Title

**PATENT** 

8/29/2001

REEL: 027654 FRAME: 0069

**Patent Cooperation Treaty** 



M-8374 EP 01926462.1 European Patent Convention 3/28/2001 Title . 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

**PATENT** REEL: 027654 FRAME: 0070

{W0734777 JLC}Init:

File System Management Embedded In A Storage Device

	NA OTTO 4			
	M-8778-1 Title	w.	Taiwan	4/28/2000
	) I we	Magnetic Hub Assembly For Data Storage Disk		
	» <b>M-8746-</b> 11	TW 90108699	<b>.</b> .	
	Title	Low Profile Cartridge For Data Storage Disk	Taiwan	4/11/2001
		2007 Floring Continued For Data Glorage Disk		
	M-8535-1	• TW 89125819	Taiwan	0/04/0000
	Title	Low Profile Optical Head	i aiwai i	3/31/2000
	M-8377 TV	90112823	Taiwan	5/30/2000
	Title	Method And Apparatus For Emulating Read/Write File Syst	tem On A Write-Once Data Stora	ge Disk
				_
	M-9793 TV	0.11.00.1	Taiwan	8/26/2002
	Title	A Secure Access Method And System	the second secon	t and gar g
		<u>.</u>		
	M-9804 TV	00122000	Taiwan	9/20/2000
	Title	Micro Lens And Method And Apparatus For Fabricating		
	M-8778 TW	00400000		
	Title	901096989 Miniature Optical Disk For Data Storage	Taiwan	4/28/2000
	1446	with lieutore Optical Disk For Data Storage		
	M-11533 TV	V 91116633	<b>#</b> -5	
	Title	Disk Carrier	Taiwan	7/31/2001
	M-9998-1P	TW 91100211	Taiwan	1/16/2001
	Title	Optical Data Media With Enhanced Contrast		
	35 44004 77	*	100)	
5 )	M-11681 TV Title	00	Taiwan	9/4/2001
See all	11116	Optical Disk Drive Actuator Assembly		
	M÷9802 TŴ	90121232	T-t	0.64.100.00
	Title	Double-Sided Digital Optical Disk And Method And Apparatu	Taiwan es For Making	8/31/2000
			or or making	
	M-9803 TW	90123255	, Taiwan	9/20/2001
	Title:	Method And Apparatus For Compensating Optical Disks For		JIZUIZUU!
		V-41		
	M-9115 TW	91101100	Taiwan	1/25/2001
	Title.	Digital Focus And Tracking Servo System With Multi-Zone Ca	alibration	
	M-11096 TW		Taiwan	1/25/2001
	Title	Spin Motor Control In An Optical Drive		
	M-11098 TW	04467040		
	Title	91100910 System And Mathed For Controlling An Ontice Dies Drive	Taiwan	1/25/2001
	.2.468G	System And Method For Controlling An Optical Disc Drive		
	M-9848 TW	01107554	<b>~</b> .	_•
		91107661 Optical Pickup Unit Assembly Process	Taiwan	5/1/2001
		opious condp contracentary 1.100000		
	M-9998 TW	91100212	Tahua-	440000
	4.	First-Side Dual-Layer Optical Data Storage Disk And Method	Taiwan	1/16/2001
4.			C. Manuacanny The Seme	
₹%.				



M-11478 TW 91108600 Taiwan 5/1/2001

Title Objective Lens Alignment In Optical Pickup Unit Assembly

PATENT REEL: 027654 FRAME: 0071

{W0734777 JLC}Init:

5/11/2001



M-9998-2P TW 91109394 Taiwan

Title 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

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

M-8532 TW 89118490156979 Taiwan 9/10/1999

Title Content Distribution Method And Apparatus

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

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

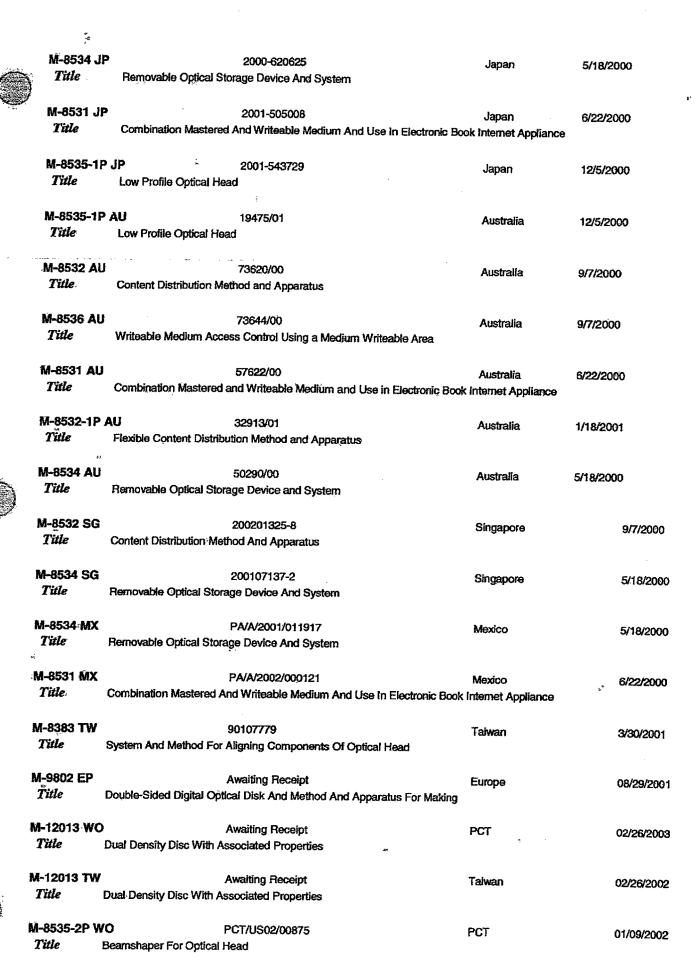
M-8532 JP 2001-522467 Japan 9/7/2000

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: 027654 FRAME: 0072 (W0734777 JLC)Init:



{W0734777 JLC}Init:

M-8746-1P WO

Title

PCT/US02/08562

PCT

03/19/2002

Low Profile And Medium Protecting Cartridge Assembly



## 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: 027654 FRAME: 0075



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REEL/FRAME: 017042/0854

NUMBER OF PAGES: 11

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

DOCKET NUMBER: M-12095 US

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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.

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BOULDER, COLORADO 80301

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1/20/06 4:43 PAGE 003/005 Fax Server

017042/0854 PAGE 2

SERIAL NUMBER: 09950360

FILING DATE: 09/10/2001

PATENT NUMBER:

ISSUE DATE:

TITLE: CALIBRATION STORAGE METHODS FOR A DIGITAL FOCUS AND TRACKING SERVO

SYSTEM WITH CALIBRATION

SHARON BROOKS, EXAMINER ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

USPTO. EPAS. Receipt

Page 1 of 2



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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:	09950360

## CORRESPONDENCE DATA

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(949)752-7049

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Phone:

949-752-7040

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scarr@macpherson-kwok.com

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Page 2 of 2

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NAME OF SUBMITTER:	Jonathan W. Hallman		
Signature:	/jwhallman/		
Date:	01/20/2006		
Total Attachments: 9 source=M-12095 assign#page1.tif source=M-12095 assign#page3.tif source=M-12095 assign#page4.tif source=M-12095 assign#page5.tif source=M-12095 assign#page6.tif source=M-12095 assign#page7.tif source=M-12095 assign#page8.tif source=M-12095 assign#page8.tif source=M-12095 assign#page9.tif  RECEIPT INFORMATION  EPAS ID: PAT76497 Receipt Date: 01/20/2006 Fee Amount: \$40			

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