

Form PTO-1595 (Rev. 07/05)  
OMB No. 0651-0027 (exp. 6/30/2008)

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

# RECORDATION FORM COVER SHEET PATENTS ONLY

K35R1672.D1

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

## 1. Name of conveying party(ies)

Read-Rite Corporation

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance/Execution Date(s):

Execution Date(s) July 31, 2003

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other

## 2. Name and address of receiving party(ies)

Name: WESTERN DIGITAL (FREMONT), INC.

Internal Address: \_\_\_\_\_

Street Address: 44100 OSGOOD ROAD

City: FREMONT

State: CALIFORNIA

Country: USA

Zip: 94539

Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

10/783,678

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address to whom correspondence concerning document should be mailed:

Name: WESTERN DIGITAL TECHNOLOGIES, INC.

Internal Address: INTELLECTUAL PROPERTY DEPT.

DOCKETING E118-G

Street Address: 20511 LAKE FOREST DRIVE

City: LAKE FOREST

State: CALIFORNIA

Zip: 92630

Phone Number: (949) 672-7780

Fax Number: (949) 672-6604

Email Address: sandra.genua@wdc.com

## 6. Total number of applications and patents involved: One (1)

## 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

## 8. Payment Information

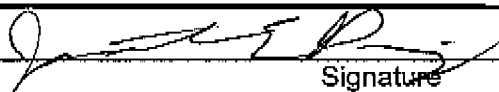
a. Credit Card Last 4 Numbers \_\_\_\_\_

Expiration Date \_\_\_\_\_

b. Deposit Account Number 23-1055

Authorized User Name Milad G. Shara, Esq.

## 9. Signature:

  
Signature

November 1, 2006

Date

Jonathan E. Prejean, Esq., Reg. No. 52,132

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

4

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

## ASSIGNMENT OF PATENT RIGHTS

This ASSIGNMENT OF PATENT RIGHTS, dated as of July 31, 2003, is made and entered into by and between TEVIS T. THOMPSON, JR., in his capacity as TRUSTEE for the Bankruptcy Estate of READ-RITE CORPORATION, a Delaware corporation (the "*Trustee*"), and WESTERN DIGITAL (FREMONT), INC., a Delaware corporation, formerly known as RR(US) ACQUISITION CORPORATION (the "*Purchaser*"). Capitalized terms used but not otherwise defined herein shall have the meanings given to such terms in the Purchase Agreement (as defined below).

WHEREAS, the Trustee and the Purchaser have entered into that certain Asset Purchase Agreement, dated as of July 24, 2003 (the "*Purchase Agreement*"), whereby the Trustee, has agreed to cause the Bankruptcy Estate to sell and assign, and Purchaser has agreed to buy and acquire rights, title and interests in and to the patents and patent applications which are a part of the Purchased Assets (as defined in the Purchase Agreement) (the "*Patents and Patent Applications*"), including without limitation those listed in Exhibit A attached hereto.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Trustee hereby assigns, transfers and conveys to Purchaser any and all worldwide rights, title and interests Trustee holds, or may hold, in and to the Patents and Patent Applications, together with (a) any inventions described and claimed therein, (b) any applications claiming priority from the applications; (c) any and all utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto which have been or may be filed in the United States or elsewhere in the world; (d) any and all patents (including reissues and re-examinations) which may be granted on the applications, and (e) any and all right of priority in the applications, together with all rights derived from any of the above, including but not limited to the right to sue for and collect damages for past, present and future infringement.

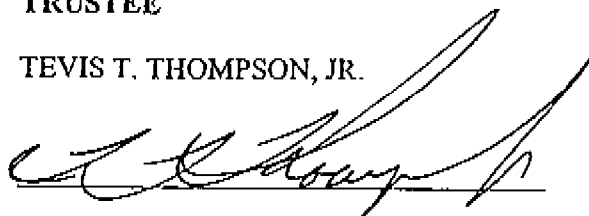
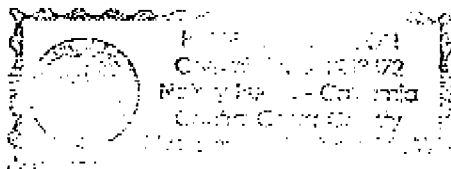
Trustee further agrees that, should additional or further documentation of the assignment be required for whatever reason, Trustee will, without further consideration, provide or execute such other information or documents as may be necessary upon Purchaser's reasonable request. Nothing in this Agreement shall, or shall be deemed to, modify or otherwise affect any provisions of the Purchase Agreement or affect or modify any of the rights or obligations of the parties under the Purchase Agreement. Assignment of this Agreement shall be governed by the terms of Section 8.6 of the Purchase Agreement; provided, however, that no such assignment by either party shall relieve such party of any of its obligations under this Agreement. This Agreement will be governed by, and construed in accordance with, the internal laws of the State of California applicable to contracts executed and performed entirely therein, without regard to the principles of choice of law or conflicts or law of any jurisdiction. If any term or other provision of this Agreement is invalid, illegal or incapable of being enforced by any rule of law or public policy, all other conditions and provisions of this Agreement will nevertheless remain in full force and effect so long as the economic or legal substance of the transactions contemplated hereby is not affected in any manner materially adverse to any party. Upon such determination that any term or other provision is invalid, illegal or incapable of being enforced, the parties hereto will negotiate in good faith to modify this Agreement so as to effect the original intent of the parties as closely as possible in a mutually acceptable manner in order that the transactions contemplated hereby be consummated as originally contemplated to the greatest extent possible. This Agreement may be executed in one or more counterparts, and by the

different parties hereto in separate counterparts, each of which when executed will be deemed to be an original but all of which taken together will constitute one and the same agreement.

IN WITNESS WHEREOF, Trustee has caused this Assignment of Patent Rights to be executed by its duly authorized representative effective as of the date first written above.

TRUSTEE

TEVIS T. THOMPSON, JR.

STATE OF California  
COUNTY OF Contra Costa

On this 29 day of July, 2003, before me, a Notary Public in and for said State, personally appeared Tevis T. Thompson, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS, my hand and official seal.

  
Notary Public

**ACKNOWLEDGED AND AGREED:**

**PURCHASER**

WESTERN DIGITAL (FREMONT), INC.

By: James D. Morris  
Name: James Morris  
Title: Vice President  
Business Development

EXHIBIT A

**PATENTS AND PATENT APPLICATIONS**

# EXHIBIT A

## PATENTS AND PATENT APPLICATIONS

| Patent Number | Title                                                                             | Inventor(s)              | Date Filed | Date Issued |          |
|---------------|-----------------------------------------------------------------------------------|--------------------------|------------|-------------|----------|
| 4,371,905     | High Resolution Hall Effect Read Head                                             | Valstyn, Kelley          | 11/13/80   | 2/1/83      |          |
| 4,511,942     | Automatic Throat Height Control for Film Heads                                    | Valstyn                  | 5/7/82     | 4/16/85     |          |
| 4,694,368     | Thin Film Magnetic Recording Head with Three Superimposed Coils                   | Bischoff                 | 1/10/86    | 9/15/87     | Redacted |
| 4,897,001     | De-Staking Tool and Method for Removal of Head Gimbals from Head Stack Assemblies | Rumpler                  | 2/25/88    | 1/30/90     |          |
| 5,008,768     | Disk Head Assembly Flexure with Sloped Ramp Support Structure                     | Carlson, Zarouri, Coon   | 3/27/89    | 4/14/91     |          |
| 5,027,240     | Disk Head Assembly Load Beam                                                      | Zarouri, Carlson         | 3/27/89    | 6/25/91     |          |
| 5,087,332     | Process for Making a Thin Film Magnetic Head with Single Step Lift-Off            | Chen                     | 8/5/91     | 2/11/92     |          |
| 5,117,589     | Adjustable Transfer Tool for Lapping Magnetic Head Sliders                        | Bischoff, Cole           | 4/1/91     | 6/2/92      |          |
| 5,138,507     | Disk Head Assembly Flexure with Improved Motion Stability                         | Zarouri, Carlson, Coon   | 8/23/90    | 8/11/92     |          |
| 5,156,704     | Method for Fabricating Magnetic Head Air Bearing Sliders                          | Kemp                     | 6/1/90     | 10/20/92    |          |
| 5,173,826     | Thin Film Head with Coils of Varying Thickness                                    | Bischoff                 | 6/3/91     | 12/22/92    |          |
| 5,187,626     | Disk Head Assembly Attachment Means and Method                                    | Hopkins, Kemp, Coon      | 4/22/91    | 2/16/93     |          |
| 5,203,119     | Automated System for Lapping Air Bearing Surface of Magnetic Heads                | Cole                     | 3/22/91    | 4/20/93     |          |
| 5,214,589     | Throat Height Control During Lapping of Magnetic Heads                            | Tang                     | 3/22/91    | 5/25/93     |          |
| 5,237,476     | Thin Film Tape Head Assembly                                                      | Bischoff, Gooden, Leung  | 5/28/91    | 8/17/93     |          |
| 5,254,373     | Process of Making Thin Film Magnetic Head                                         | Barr                     | 4/19/93    | 10/19/93    |          |
| 5,255,141     | Read-Write Magnetic Head with Flux Sensing Read Element                           | Valstyn, Nepela          | 12/16/91   | 10/19/93    |          |
| 5,255,142     | Thin Film Magnetic Head with Narrow Yoke                                          | Williams, Bischoff, Akoh | 11/12/91   | 10/19/93    |          |

# EXHIBIT A

## PATENTS AND PATENT APPLICATIONS

|           |                                                                                                                                                                            |                                   |          |          |          |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------|----------|----------|
| 5,256,266 | Alumina Material Useful with Thin Film Heads                                                                                                                               | Blanchette, Maddex,<br>Shimek     | 10/31/91 | 10/26/93 |          |
| 5,282,103 | Magnetic Head Suspension Assembly Fabricated with Integral Load Beam and Flexure                                                                                           | Hatch, Leung                      | 10/7/92  | 1/25/94  |          |
| 5,290,416 | Unidirectional Field Generator                                                                                                                                             | Tong, Newman, Wu                  | 7/10/92  | 3/1/94   |          |
| 5,299,081 | Magnetic Head Suspension Assembly                                                                                                                                          | Hatch, Leung, Murray              | 8/5/92   | 3/29/94  |          |
| 5,309,305 | Dual Element Magnetostrictive Sensing Head                                                                                                                                 | Nepela, Valstyn                   | 11/16/92 | 5/3/94   | Redacted |
| 5,327,310 | Thin Film Contact Recording Head                                                                                                                                           | Bischoff, Leung, Murray           | 6/25/92  | 7/5/94   |          |
| 5,335,458 | Processing of Magnetic Head Flexures with Slider Elements                                                                                                                  | Stoffers, Mokorarat,<br>Peceimier | 9/23/91  | 8/9/94   |          |
| 5,339,702 | Test Fixture for Air Bearing Magnetic Head Suspension Assembly                                                                                                             | Viches                            | 12/24/92 | 8/23/94  |          |
| 5,353,180 | Air Bearing Magnetic Slider with Wishbone-Shaped Rails                                                                                                                     | Murray                            | 3/1/93   | 10/4/94  |          |
| 5,357,389 | Alumina Material Useful with Thin Film Heads                                                                                                                               | Blanchette, Maddex,<br>Shimek     | 8/2/93   | 10/18/94 |          |
| 5,359,480 | Magnetic Head Air Bearing Slider                                                                                                                                           | Nepela, Leung, Chang              | 12/21/92 | 10/25/94 |          |
| 5,373,408 | Configuring Domain Pattern in Thin Films of Magnetic Heads                                                                                                                 | Bischoff, Tong, Chen              | 7/20/92  | 12/13/94 |          |
| 5,385,637 | Stabilizing Domains in Inductive Thin Film Heads                                                                                                                           | Thayamballi                       | 12/7/92  | 1/31/95  |          |
| 5,386,666 | Automated System for Controlling Taper Length During the Lapping of Air Bearing Surface of Magnetic Heads                                                                  | Cole                              | 2/11/93  | 2/7/95   |          |
| 5,396,387 | Air Bearing Magnetic Head Sliders                                                                                                                                          | Murray                            | 11/30/92 | 3/7/95   |          |
| 5,396,388 | Compact, High-Speed, Rotary Actuator & Transducer Assembly With Reduced Moment of Inertia & Mass-Balanced Structural Overlap With Drive Motor & Organizing Method For Same | Brown                             | 2/27/92  | 3/7/95   |          |
| 5,406,432 | Air Bearing Magnetic Head Sliders with Separate Center Rail Segments                                                                                                       | Murray                            | 10/7/93  | 4/11/95  |          |
| 5,410,794 | Caddy and Carrier Tool for Assembling a Head Arm Stack                                                                                                                     | Tucker                            | 4/22/94  | 5/2/95   |          |

**EXHIBIT A**  
**PATENTS AND PATENT APPLICATIONS**

|           |                                                                                                                                                                                      |                                            |          |          |          |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|----------|----------|----------|
| 5,434,826 | Multi-Layer Hard Bias Films for Longitudinal Biasing in Magnetoresistive Transducer                                                                                                  | Ravipati, Shen                             | 9/26/94  | 7/18/95  |          |
| 5,436,779 | Integrated Yoke Magnetoresistive Transducer with Magnetic Shunt                                                                                                                      | Valstyn                                    | 3/31/94  | 7/25/95  |          |
| 5,438,273 | System for Testing the Voice Coil Element of a Disk Drive Rotary Actuator                                                                                                            | Gergel, Mahmoudian, Buttar, Motiska        | 9/1/94   | 8/1/95   |          |
| 5,438,470 | Magnetoresistive Structure with Contiguous Junction Hard Bias Design with Low Lead Resistance                                                                                        | Ravipati, Shen, Cain                       | 5/13/94  | 8/1/95   | Redacted |
| 5,446,613 | Magnetic Head Assembly with MR Sensor (CPP)                                                                                                                                          | Rotmayer                                   | 2/28/94  | 8/29/95  |          |
| 5,452,168 | Thin Film Magnetic Heads with Multiple Yokes                                                                                                                                         | Nepela, Cheng, Valstyn, Williams, Bischoff | 5/4/92   | 9/19/95  |          |
| 5,465,477 | Method of Assembling a Head Arm Stack for a Magnetic Disk Drive                                                                                                                      | Tucker, Heist                              | 4/22/94  | 11/14/95 |          |
| 5,472,736 | Method of Making a Bi-Level Coil for a Thin Film Magnetic Transducer                                                                                                                 | Barr, Hagen                                | 12/7/92  | 12/5/95  |          |
| 5,473,485 | Tri-pad Air Bearing Magnetic Head Slider                                                                                                                                             | Leung, Gooden, Williams                    | 3/6/92   | 12/5/95  |          |
| 5,473,486 | Air Bearing Thin Film Magnetic Head with a Wear-Resistant End Cap Having Alternating Laminations                                                                                     | Nepela, Schmidt                            | 9/20/93  | 12/5/95  |          |
| 5,504,999 | Method and Apparatus for Compensating for Process Variations in an Automatic Positioning System                                                                                      | Barr                                       | 12/7/92  | 4/9/96   |          |
| 5,508,868 | Dual Element Magnetoresistive Sensing Head Having In-Gap Flux Guide and Flux Closure Piece with Particular Connection of Magnetoresistive Sensing Elements to Differential Amplifier | Cheng, Nepela                              | 1/25/93  | 4/16/96  |          |
| 5,516,323 | Method and Apparatus for Blending Air Bearing Sliders                                                                                                                                | Carlson, Pa, Allen                         | 6/15/94  | 5/14/96  |          |
| 5,516,430 | Planarization of Air Bearing Slider Surfaces for Reactive Ion Etching or Ion Milling                                                                                                 | Hussinger                                  | 3/27/95  | 5/14/96  |          |
| 5,529,814 | Method of Producing Exchange Coupled Magnetic Thin Films with Post-Deposition Annealing                                                                                              | Tan, Tan, Tong                             | 10/19/95 | 6/25/96  |          |



**EXHIBIT A**  
**PATENTS AND PATENT APPLICATIONS**

|           |                                                                                                                                 |                                     |          |          |          |
|-----------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------|----------|----------|
| 5,535,074 | Disk Drive Apparatus having Up and Down Head Suspensions Independently Loadable into a Space Between Immediately Adjacent Disks | Leung                               | 5/4/92   | 7/9/96   |          |
| 5,567,864 | Method and Apparatus for Calibration of a Transducer Flying Height Measurement Instrument                                       | Coon, Watkins, Kropp                | 6/22/94  | 10/22/96 | Redacted |
| 5,568,332 | Magnetic Head Suspension                                                                                                        | Khan                                | 12/3/93  | 10/22/96 |          |
| 5,568,981 | Negative Pressure Air Bearing Slider                                                                                            | Nepela                              | 8/19/94  | 10/29/96 |          |
| 5,576,914 | Compact Read/Write Head Having Biased GMR Element                                                                               | Roitmayer                           | 11/14/94 | 11/19/96 |          |
| 5,578,342 | Alignment of Magnetic Poles of Thin Film Transducer                                                                             | Tran, Lee, Son                      | 7/5/95   | 11/26/96 |          |
| 5,602,699 | Gimbal Assembly of a Magnetic Head Suspension                                                                                   | Khan                                | 6/29/95  | 2/11/97  |          |
| 5,606,476 | Altitude Insensitive Air Bearing Slider                                                                                         | Chang, Hsia                         | 7/13/95  | 2/25/97  |          |
| 5,612,098 | Method of Forming a Thin Film Magnetic Structure Having Ferromagnetic and Antiferromagnetic Layers                              | Tan, Tong, Liu, Tan                 | 8/14/96  | 3/18/97  |          |
| 5,612,839 | Contact Recording Slider with Active Contact Surface                                                                            | Jacques                             | 7/18/94  | 3/18/97  |          |
| 5,617,278 | Magnetic Head Structure with Reduction of Magnetic Domain Instability                                                           | Cheng, Tong, Cain                   | 3/20/95  | 4/1/97   |          |
| 5,627,704 | Thin Film Giant Magnetoresistive CPP Transducer with Flux Guide Yoke Structure                                                  | Lederman, Kroes                     | 2/12/96  | 5/6/97   |          |
| 5,646,805 | Magnetoresistive Read Transducer with Partially Abutted Junctions                                                               | Shen, Rudy, Clark                   | 3/6/95   | 7/8/97   |          |
| 5,654,851 | Head Arm Assembly having an Integral Arm with a Portion Encased in a Rigid Molded Material                                      | Tucker, Heist                       | 7/21/95  | 8/5/97   |          |
| 5,657,191 | Stabilization of Giant Magnetoresistive Transducers                                                                             | Yuan                                | 9/18/95  | 8/12/97  |          |
| 5,668,477 | Noise Detecting Apparatus for Magnetic Heads                                                                                    | Mahmoudian, Bultar, Gergel, Motiska | 2/16/95  | 9/16/97  |          |
| 5,680,213 | Optics Method and Fixture for Assembling and Testing a Magnetic Head                                                            | Hunsaker, Darr                      | 2/7/97   | 10/21/97 |          |

**EXHIBIT A**  
**PATENTS AND PATENT APPLICATIONS**

|           |                                                                                                    |                                       |          |          |          |
|-----------|----------------------------------------------------------------------------------------------------|---------------------------------------|----------|----------|----------|
| 5,685,645 | Roll Balanced Sub-ambient Pressure Air Bearing Slider                                              | Nepela, Chang                         | 8/13/96  | 11/11/97 |          |
| 5,694,276 | Shielded Magnetic Head Having an Inductive Coil with Low Mutual Inductance                         | Shen, Rudy, Retort                    | 7/1/96   | 12/2/97  |          |
| 5,704,715 | Altitude Insensitive Air Bearing Slider                                                            | Chang, Hsia, Levi, Lee                | 12/9/96  | 1/6/98   |          |
| 5,705,973 | Bias-Free Symmetric Dual Spin Valve Giant Magnetoresistance Transducer                             | Yuan, Tong, Liu, Tan                  | 8/26/96  | 1/6/98   | Redacted |
| 5,707,538 | Variable Gap Magnetoresistive Transducer and Method of Making the Same                             | Shen, Chuang                          | 7/28/95  | 1/13/98  |          |
| 5,708,358 | Spin Valve Magnetoresistive Transducers having Permanent Magnets                                   | Ravipati                              | 3/21/96  | 1/13/98  |          |
| 5,717,550 | Antiferromagnetic Exchange Biasing using Buffer Layer                                              | Nepela, Lederman                      | 11/1/96  | 2/10/98  |          |
| 5,726,841 | Thin Film Magnetic Head with Trimmed Pole Tips Etched by Focused Ion Beam for Undershoot Reduction | Tong, Liu, Yuan, Riedlin, Thayamballi | 6/11/96  | 3/10/98  |          |
| 5,727,308 | Thin Film Magnetic Head and Method of Fabrication                                                  | Leung, Bond, Nepela                   | 7/25/96  | 3/17/98  |          |
| 5,731,937 | Giant Magnetoresistive Transducer with Increased Output Signal                                     | Yuan                                  | 8/22/97  | 3/24/98  |          |
| 5,734,533 | Dual Gap Magnetic Head and Method of Making the Same                                               | Nepela                                | 5/15/96  | 3/31/98  |          |
| 5,739,987 | Magnetoresistive Read Transducer with Multiple Longitudinal Stabilization Layers                   | Yuan, Nepela, Lederman                | 6/4/96   | 4/14/98  |          |
| 5,739,990 | Spin-Valve GMR Sensor with Inbound Exchange Stabilization                                          | Ravipati, Yuan                        | 11/13/96 | 4/14/98  |          |
| 5,740,148 | Stationary Optical Data Storage System using Holographic or Acousto-optical Deflection             | Ja                                    | 1/7/97   | 4/14/98  |          |
| 5,742,162 | Magnetoresistive Spin Valve Sensor with Multi-layered Keeper                                       | Nepela, Lederman                      | 7/17/96  | 4/21/98  |          |
| 5,742,459 | Magnetic Head Having Encapsulated Magnetoresistive Transducer and Multi-layered Lead Structure     | Shen, Tong, Nepela                    | 6/20/96  | 4/21/98  |          |

# EXHIBIT A

## PATENTS AND PATENT APPLICATIONS

|           |                                                                                                                      |                       |          |         |          |
|-----------|----------------------------------------------------------------------------------------------------------------------|-----------------------|----------|---------|----------|
| 5,742,581 | Transmissive Optical and Magneto-optical Data Storage Media                                                          | Ja                    | 1/7/97   | 4/21/98 |          |
| 5,748,413 | Magnetoresistive Read Transducer with Exchange Biasing of Magnetoresistive Sensor and Soft Adjacent Layer            | Lederman, Yuan        | 6/4/96   | 5/5/98  |          |
| 5,750,275 | Thin Film Heads with Insulated Laminations for Improved High Frequency Performance                                   | Katz, Berger          | 7/12/96  | 5/12/98 | Redacted |
| 5,751,528 | Multi-layer Exchange Coupled Magnetic Poles with Approximate Zero Magnetostriction                                   | Nepela, Sathadi       | 4/15/96  | 5/12/98 |          |
| 5,754,367 | Air Bearing Slider having Etched and Shaped Leading Edge Taper                                                       | Chang, Levi           | 5/19/97  | 5/19/98 |          |
| 5,758,406 | Methods for Assembling and Electrical Testing of a Magnetic Head                                                     | Hunsaker, Dair        | 2/7/97   | 6/2/98  |          |
| 5,764,451 | Multi-Tapped Coil Having Tapped Segments Cascaded for Amplification for Improving Signal-to-Noise Ratio              | Katz                  | 11/4/97  | 6/9/98  |          |
| 5,764,454 | Thin-Film Magnetic Head with Improved Bonding Characteristics and Peeling Resistance of Insulating Film to Substrate | Hishida               | 12/26/96 | 6/9/98  |          |
| 5,768,073 | Thin Film Magnetic Head With Reduced Undershoot                                                                      | Nepela, Bondi         | 2/7/97   | 6/16/98 |          |
| 5,771,138 | Head Gimbal Assembly with Transducer Wires Attached at Two Points to Slider                                          | Zarouri, Singh, Bower | 7/25/96  | 6/23/98 |          |
| 5,772,483 | Method and Apparatus for Controlling the lapping of Magnetic Heads                                                   | Rottmayer, Tang       | 7/31/95  | 6/30/98 |          |
| 5,784,224 | Compact Read/Write Head having Biased GMR Element                                                                    | Rottmayer, Zhu        | 7/17/98  | 7/21/98 |          |
| 5,784,228 | Thin Film Magnetic Head with Compound Angled Insulation Layer                                                        | Thomas, Tran, Lee     | 7/9/97   | 7/21/98 |          |
| 5,792,547 | Low Noise Magnetic Head for High Frequency Recording                                                                 | Liu, Tan, Tong        | 2/26/96  | 8/11/98 |          |
| 5,793,279 | Method and Compositions for Optimizing Interfacial Properties of Magnetoresistive Sensors                            | Nepela                | 8/26/96  | 8/11/98 |          |

**EXHIBIT A**  
**PATENTS AND PATENT APPLICATIONS**

|           |                                                                                                          |                                                         |          |          |          |
|-----------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------|----------|----------|----------|
| 5,793,550 | Magnetoresistive Head Using Sense Currents of Opposite Polarities                                        | Nepela, Rana                                            | 4/23/96  | 8/11/98  |          |
| 5,793,577 | Planar Geometry Thin Film Head with Shaped Poles                                                         | Katz, Devillier                                         | 11/1/96  | 8/11/98  |          |
| 5,795,448 | Magnetic Device for Rotating a Substrate                                                                 | Hurwitt, Reiss, Zielinski, Tan                          | 12/8/95  | 8/18/98  |          |
| 5,795,451 | Sputtering Apparatus with a Rotating Magnet Array                                                        | Tan, Pearson                                            | 6/12/97  | 8/18/98  | Redacted |
| 5,796,558 | Adaptive Suspension                                                                                      | Hanrahan, Khan                                          | 5/15/97  | 8/18/98  |          |
| 5,801,531 | Apparatus and Method for Testing Magnetic Heads Using Translational Slides and a Rotatable Arm           | Viches, Mohmoudian, Buttar, Gergel, Weber, Rudman, Duer | 1/18/96  | 9/1/98   |          |
| 5,809,637 | Method of Making a Magnetic Head Assembly with Write Pole/Shield Structure                               | Rottmayer                                               | 8/7/96   | 9/22/98  |          |
| 5,818,685 | CIP GMR Sensor Coupled to Biasing Magnet with Spacer Therebetween                                        | Thayamballi, Yuan                                       | 5/5/97   | 10/6/98  |          |
| 5,838,521 | Magnetoresistive Transducer Having Laminated Magnetic Shields                                            | Ravipati                                                | 4/17/95  | 11/17/98 |          |
| 5,842,270 | Apparatus for Adjusting the Gram Load of Head Gimbal Assemblies                                          | Tucker, Heist                                           | 3/18/96  | 12/1/98  |          |
| 5,844,420 | Fixture for Testing a Head Gimbal Assembly Employing a Flex Interconnect Circuit                         | Weber, Mahmoudian, Rudman, Gergel                       | 1/27/97  | 12/1/98  |          |
| 5,844,752 | Load Beam Head Gimbal Assembly with a Bend Region Including a Segment for Shifting the Center of Gravity | Bozorgi, Allen                                          | 1/24/97  | 12/1/98  |          |
| 5,859,749 | Flexible Circuit for Magnetic Head Assembly                                                              | Zarouri, Bower                                          | 4/14/97  | 1/2/99   |          |
| 5,859,754 | Magnetoresistive Transducer Having a Common Magnetic Bias Using Assertive and Complementary Signals      | Tong, Liu, Tan, Rottmayer, Zhu, Yuan                    | 4/3/97   | 1/12/99  |          |
| 5,863,448 | Manufacturing Method for a Thin Film Magnetic Head                                                       | Otani, Iitsuka, Kobo, Hamakawa                          | 11/27/96 | 1/26/99  |          |

# EXHIBIT A

## PATENTS AND PATENT APPLICATIONS

|           |                                                                                                              |                            |          |         |          |
|-----------|--------------------------------------------------------------------------------------------------------------|----------------------------|----------|---------|----------|
| 5,870,252 | Magnetic Head Suspension Assembly Having Load Beam with High Resonant Frequency and Shock Resistance         | Hanrahan                   | 8/7/96   | 2/9/99  |          |
| 5,870,258 | Conductive Trace Flexure for a Magnetic Head Suspension Assembly                                             | Khan, Hanrahan, Hsia       | 9/16/97  | 2/9/99  |          |
| 5,875,542 | Method of Making Thin Film Merged Magnetoresistive Heads                                                     | Tran, Tran                 | 4/18/97  | 3/2/99  |          |
| 5,876,848 | Thin Film Magnetic Structure Having Ferromagnetic and Antiferromagnetic Layers                               | Tan, Tong, Liu, Tan        | 2/3/97   | 3/2/99  | Redacted |
| 5,877,923 | Head Suspension Assembly                                                                                     | Khan, Korn                 | 9/25/97  | 3/2/99  |          |
| 5,880,912 | Magnetic Head with Biased GMR Element and Sense Current Compensation                                         | Rottmayer                  | 10/30/97 | 3/9/99  |          |
| 5,883,763 | Read/Write Head Having a GMR Sensor Biased by Permanent Magnets Located Between the GMR and the Pole Shields | Yuan, Rottmayer, Carey     | 8/19/97  | 3/16/99 |          |
| 5,886,959 | Thin-Film Electro-Magnetic Coil Design for Use in a Flying Magneto-Optical Head                              | Bischoff, Wang             | 2/4/98   | 3/23/99 |          |
| 5,889,634 | Reduced-Altitude-Sensitive Sub-ambient Pressure Air Bearing Slider                                           | Chang, Hsia                | 10/22/96 | 3/30/99 |          |
| 5,889,637 | Air Bearing Magnetic Head Slider                                                                             | Chang, Hsia, Donovan, Levi | 10/30/97 | 3/30/99 |          |
| 5,894,381 | Low Mass Sectioned Load Beam of Head Gimbal Assembly Having Increased High First Torsion Frequency Mode      | Allen, Bozorgi             | 7/14/97  | 4/13/99 |          |
| 5,894,465 | Transmissive Data Storage Media and an Optical Head Using Holographic or Acousto-Optical Deflection          | Ja                         | 1/5/98   | 4/13/99 |          |
| 5,896,248 | Bond Pads for Metal Welding of Flexure to Air Bearing Slider and Grounding Configuration Thereof             | Hanrahan, Khan             | 9/5/97   | 4/20/99 |          |
| 5,903,525 | Coil for Use with Magneto-Optical Head                                                                       | McDaniel, Wang             | 4/18/97  | 5/11/99 |          |
| 5,917,680 | Magnetoresistive Head with Magnetic Bias Level Control                                                       | Valstyn, Bond, Nepela      | 6/24/96  | 6/29/99 |          |

# EXHIBIT A

## PATENTS AND PATENT APPLICATIONS

|           |                                                                                                                                                                                                           |                                        |          |          |          |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|----------|----------|----------|
| 5,920,979 | Method of Forming an Inductive Magnetic Head with Approximate Zero Magnetostriction                                                                                                                       | Nepela, Sarhadi                        | 11/17/97 | 7/13/99  |          |
| 5,923,505 | Magnetoresistive Sensor Having a Pinned Soft Magnetic Layer                                                                                                                                               | Kroes, Lederman, Yuan                  | 3/17/99  | 7/13/99  |          |
| 5,928,715 | Thin Film Magnetoresistive Device Having Contiguous Magnetoresistive, Hard Bias and Lead Layer Junctions with Each Hard Bias Layer Extending Outwardly Beyond Outside Edges of Each Respective Lead Layer | Ravipati, Rudy                         | 7/28/97  | 7/27/99  | Redacted |
| 5,935,403 | Magnetic Thin Film and Magnetic Thin Film Manufacturing Method                                                                                                                                            | Suzuki, Komaki                         | 6/24/97  | 8/10/99  |          |
| 5,943,190 | Magnetic Head Gimbal with Spring Loaded Tangs                                                                                                                                                             | Fanslau                                | 3/25/97  | 8/24/99  |          |
| 5,943,761 | Method for Adjusting the Gram Load of Head Gimbal Assemblies                                                                                                                                              | Tucker, Heist                          | 3/2/98   | 8/31/99  |          |
| 5,949,627 | Thin Film Magnetic Head with Stress Relief Layering                                                                                                                                                       | Williams, Bischoff, Nepela             | 2/19/93  | 9/7/99   |          |
| 5,959,806 | Adaptive Loading/Unloading Suspension                                                                                                                                                                     | Leung                                  | 6/12/97  | 9/28/99  |          |
| 5,959,811 | Magnetoresistive Transducer with Four Lead Contact                                                                                                                                                        | Richardson                             | 1/13/98  | 9/28/99  |          |
| 5,961,746 | Corrosion Resistant Amorphous Magnetic Alloys                                                                                                                                                             | Nepela                                 | 8/15/97  | 10/5/99  |          |
| 5,962,080 | Deposition of Insulating Thin Film by a Plurality of Ion Beams                                                                                                                                            | Tan, Tan                               | 2/10/97  | 10/5/99  |          |
| 5,966,272 | Magnetoresistive Read Head Having An Exchange Layer                                                                                                                                                       | Cain                                   | 6/21/93  | 10/12/99 |          |
| 5,966,363 | Optical and Magneto-Optic Data Storage Systems Utilizing Transmissive Media                                                                                                                               | Ja                                     | 1/7/97   | 10/12/99 |          |
| 5,966,591 | Method and Tool for Handling Micro-Mechanical Structures                                                                                                                                                  | Roberts                                | 8/7/97   | 10/12/99 |          |
| 5,966,800 | Method of Making a Magnetic Head with Aligned Pole Tips and Pole Layers Formed of High Magnetic Moment Material                                                                                           | Hual, Ravipati, Thomas, Corona, Jensen | 7/28/97  | 10/19/99 |          |
| 5,968,626 | Transmissive Optical and Magneto-Optical Data Storage Media and Method of Making the Same                                                                                                                 | Ja                                     | 2/14/98  | 10/19/99 |          |

**EXHIBIT A**  
**PATENTS AND PATENT APPLICATIONS**

|           |                                                                                                                           |                                      |          |          |          |
|-----------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------|----------|----------|
| 5,969,911 | Inductive/MR Composite Type Thin-Film Magnetic Head                                                                       | Hikami, Takagishi                    | 3/4/98   | 10/19/99 |          |
| 5,973,391 | Interposer with Embedded Circuitry and Method for Using the Same to Package Microelectronic Units                         | Bischoff, Stovall                    | 12/11/97 | 10/26/99 |          |
| 5,978,319 | Thin Electro-Magnetic Coil Assembly for Attachment to a Slider                                                            | Wang, Hishida                        | 1/6/97   | 11/2/99  |          |
| 5,984,104 | Protective Carrier for Magnetic Head Assembly                                                                             | Schott, Ren, Seong                   | 1/20/98  | 11/16/99 |          |
| 5,986,978 | Read/Write Head and Method for Magnetic Reading and Magneto-Optical Writing on a Data Storage Medium                      | Rottmayer, Cheng, Shi, Tong, Tong    | 1/12/98  | 11/16/99 | Redacted |
| 5,986,995 | High NA Catadioptric Focusing Device Having Flat Diffractive Surfaces                                                     | He, Chen, Cheng                      | 1/21/99  | 11/16/99 |          |
| 5,996,213 | Thin Film MR Head and Method of Making Wherein Pole Trim Takes Place at the Water Level                                   | Shen, Baral, Wang                    | 1/30/98  | 12/7/99  |          |
| 6,002,552 | Adaptive Loading/Unloading Suspension                                                                                     | Leung                                | 1/19/99  | 12/14/99 |          |
| 6,008,969 | Planar Recording Head Having Formed Yokes                                                                                 | Imai, Roberts, Latev, Cain           | 12/18/97 | 12/28/99 |          |
| 6,016,290 | Read/Write Head with Shifted Waveguide                                                                                    | Chen, Stovall, Carlson               | 2/12/99  | 1/18/00  |          |
| 6,018,441 | Disk Drive Pivot Bearing and Actuator Arm Assembly                                                                        | Wu, Bozorgi                          | 6/8/98   | 1/25/00  |          |
| 6,025,978 | Composite Type Thin-Film Magnetic Head with Improved Recording Characteristics and High Resolution                        | Hoshi, Komaki, Kamimura              | 12/19/97 | 2/15/00  |          |
| 6,025,988 | Interconnect Adapter and Head Suspension Assembly                                                                         | Yan                                  | 12/17/98 | 2/15/00  |          |
| 6,032,353 | Magnetic Head with Low Stack Height and Self-Aligned Pole Tips                                                            | Hirner, Crue, Jensen, Wang, Ravipati | 5/15/97  | 3/7/00   |          |
| 6,033,532 | Oxide Film Fabrication Method and Electronic Device                                                                       | Minami                               | 2/27/97  | 3/7/00   |          |
| 6,034,851 | Shorting Bar and Test Clip for Protecting Magnetic Heads from Damage Caused by Electrostatic Discharge During Manufacture | Zarouri, Jose, Miller                | 4/7/98   | 3/7/00   |          |

**EXHIBIT A**  
**PATENTS AND PATENT APPLICATIONS**

|           |                                                                                              |                                                         |          |         |          |
|-----------|----------------------------------------------------------------------------------------------|---------------------------------------------------------|----------|---------|----------|
| 6,043,959 | Inductive Write Head Formed with Flat Yoke and Merged with Magnetoresistive Read Transducer  | Crue, Thomas                                            | 3/23/98  | 3/28/00 |          |
| 6,046,885 | Base Plate Suspension Assembly in a Hard Disk With Step in Flange                            | Almonetti, Hanrahan, Heist, Schmidt, Tucker             | 4/3/98   | 4/4/00  |          |
| 6,049,660 | Structure for Micro-Machine Optical Tooling and Method for Making and Using                  |                                                         | 4/11/00  |         |          |
| 6,055,138 | Thin Film Pedestal Pole Tips Write Head Having Narrower Lower Pedestal Pole Tip              | Shi, Crue, Wang, Jensen                                 | 5/6/98   | 4/25/00 | Redacted |
| 6,058,094 | Flying Magneto-Optical Head With A Steerable Mirror                                          | Davis, Wilde                                            | 2/7/97   | 5/2/00  |          |
| 6,073,338 | Thin Film Read Head with Coplanar Pole Tips                                                  | Liu, Tong, Yuan                                         | 8/19/97  | 6/13/00 |          |
| 6,075,673 | Composite Slider Design                                                                      | Wilde, Hurst, Heanue, Jerman                            | 7/8/98   | 6/13/00 |          |
| 6,078,479 | Magnetic Tape Head with Flux Sensing Element                                                 | Nepela, Valstyn, Kroes                                  | 7/11/95  | 6/20/00 |          |
| 6,081,499 | Magneto-Optical Data Storage System Having an Optical-Processing Flying Head                 | Berger, Heanue, Hurst, Jerman, Wilde                    | 11/13/98 | 6/27/00 |          |
| 6,094,803 | Wafer Processing Techniques for Near Field Magneto-Optical Head                              | Carlson, Miceli, Chen, He, Cheng, Stovall               | 1/21/99  | 8/1/00  |          |
| 6,097,575 | Composite Slider with Housing & Interlocked Body                                             | Trang, Shen, Carlson                                    | 7/14/98  | 8/1/00  |          |
| 6,099,362 | Apparatus and Method for Testing Magnetic Disk Drive Components                              | Viches, Mohmoudian, Buttar, Gergel, Weber, Rudman, Duer | 5/13/98  | 8/8/00  |          |
| 6,103,073 | Magnetic Thin Film Head Zero Throat Pole Tip Definition                                      | Thayamballi                                             | 7/15/96  | 8/15/00 |          |
| 6,108,166 | Current-Pinned Spin Valve Sensor                                                             | Lederman                                                | 3/12/98  | 8/22/00 |          |
| 6,118,629 | Magnetic Head with Aligned Pole Tips and Pole Layers Formed of High Magnetic Moment Material | Huai, Ravipati, Thomas, Corona, Jensen                  | 6/15/99  | 9/12/00 |          |
| 6,118,638 | CPP Magnetoresistive Device and Method for Making Same                                       | Knapp, Barr                                             | 1/2/98   | 9/12/00 |          |



# EXHIBIT A

## PATENTS AND PATENT APPLICATIONS

|           |                                                                                                                                                        |                                           |          |          |          |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------|----------|----------|
| 6,125,014 | Via-Less Connection Using Interconnect Traces Between Bond Pads and a Transducer Coil of a Magnetic Head Slider                                        | Riedlin                                   | 6/26/98  | 9/26/00  |          |
| 6,125,015 | Head Gimbal Assembly with Low Stiffness Flex Circuit and ESD Protection                                                                                | Carlson, Doundakov                        | 12/4/98  | 9/26/00  |          |
| 6,125,018 | Composite Type Thin-Film magnetic Head                                                                                                                 | Takagishi, Akoh, Iitsuka                  | 6/10/98  | 9/26/00  |          |
| 6,130,779 | Near Field Magneto-Optical Head Made Using Wafer Processing Techniques                                                                                 | Carlson, Miceli, Chen, He, Cheng, Stovall | 7/6/98   | 10/10/00 |          |
| 6,130,863 | Slider and Electro-Magnetic Coil Assembly                                                                                                              | Wang, Shen, Trang, Barnes                 | 1/12/98  | 10/10/00 |          |
| 6,134,089 | Current Perpendicular to Plane Magnetoresistive Device with Low Resistance Lead                                                                        | Barr, Crue, Zhao                          | 3/11/99  | 10/17/00 | Redacted |
| 6,136,168 | Apparatus for Producing a Uniform Magnetic Field Over a Large Surface Area of a Wafer                                                                  | Shen, Min, Huai                           | 3/27/98  | 10/24/00 |          |
| 6,137,656 | Air Bearing Slider                                                                                                                                     | Levi, Anaya-Dufresne                      | 10/26/98 | 10/24/00 |          |
| 6,137,661 | System for Providing a Magnetoresistive Head Having Higher Efficiency                                                                                  | Shi, Tong, Zhao, Liu                      | 10/19/98 | 10/24/00 |          |
| 6,137,662 | Magnetoresistive Sensor with Pinned SAL                                                                                                                | Huai, Nepela, Ravipati, Lederman          | 4/7/98   | 10/24/00 |          |
| 6,144,528 | Air Bearing Slider with Reduced Stiction                                                                                                               | Anaya-Dufresne, Levi, Donovan             | 10/22/99 | 11/7/00  |          |
| 6,147,838 | Air Bearing Slider With Shaped Taper                                                                                                                   | Chang, Lee, Donovan                       | 2/28/00  | 11/14/00 |          |
| 6,151,196 | Magnetic Head Suspension Assembly Including an Intermediate Flexible member that Supports an Air Bearing Slider with a Magnetic Transducer for Testing | Carlson, Schott                           | 2/16/99  | 11/21/00 |          |
| 6,160,684 | Head Suspension Having Tabs and Force Isolation Welds for Gram Load Reduction During Swaging                                                           | Heist, Aimonetti, Biondo, Tucker          | 1/12/98  | 12/12/00 |          |
| 6,163,426 | Magnetoresistive Head with Minimal Electromigration                                                                                                    | Nepela, Lam                               | 7/8/98   | 12/19/00 |          |

**EXHIBIT A**  
**PATENTS AND PATENT APPLICATIONS**

|           |                                                                                                                                        |                                                    |          |          |          |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------|----------|----------|
| 6,166,891 | Magnetoresistive Sensor for High Temperature Environment Using Iridium Manganese                                                       | Lederman, Nepela, Tong                             | 6/30/97  | 12/26/00 |          |
| 6,173,486 | Thin Film Magnetic Head with Self-Aligned Pole Tips                                                                                    | Hsiao, Wang, Ravipati, Hiner, Jensen               | 3/4/97   | 1/16/01  |          |
| 6,175,476 | Synthetic Spin-Valve Device Having High Resistivity Anti Parallel Layer                                                                | Huai, Lederman                                     | 8/18/98  | 1/16/01  |          |
| 6,178,064 | Air Bearing Slider with Shaped Taper                                                                                                   | Chang, Lee, Donovan                                | 2/10/97  | 1/23/01  |          |
| 6,178,066 | Method of Fabricating an Improved Thin Film Device Having a Small Element with Well Defined Corners                                    | Barr                                               | 3/27/98  | 1/23/01  | Redacted |
| 6,178,070 | Magnetic Write Head and Method for Making Same                                                                                         | Hong, Shi                                          | 2/11/99  | 1/23/01  |          |
| 6,178,150 | Offset Optics for Use with Optical Heads                                                                                               | Davis                                              | 2/12/97  | 1/23/01  |          |
| 6,181,485 | High Numerical Aperture Optical Focusing Device for Use in Data Storage Systems                                                        | He                                                 | 6/23/99  | 1/30/01  |          |
| 6,181,522 | Read/Write Head With a Gimbal Ball Assembly                                                                                            | Carlson                                            | 12/12/98 | 1/30/01  |          |
| 6,181,525 | Read/Write Head With a Limited Range of Motion Relative to a Load Beam                                                                 | Carlson                                            | 9/23/98  | 1/30/01  |          |
| 6,181,673 | Slider Design                                                                                                                          | Wilde, Davis, Shen, Barnes                         | 6/24/99  | 1/30/01  |          |
| 6,185,051 | High Numerical Aperture Optical Focusing Device for Use in Data Storage Systems                                                        | Chen, He, Cheng, Miceli                            | 6/23/99  | 2/6/01   |          |
| 6,185,077 | Spin Valve Sensor with Antiferromagnetic and Magnetostatically Coupled Pining Structure                                                | Tong, Zhu, Lai                                     | 1/6/99   | 2/6/01   |          |
| 6,185,081 | Bias Layers Which are Formed on Under layers Promoting In-Plane Alignment of the C-Axis of Cobalt Used in Magnetoresistive Transducers | Simion, Chen, Miller                               | 6/30/99  | 2/6/01   |          |
| 6,188,549 | Magnetoresistive Read/Write Head with High-Performance Gap Layers                                                                      | Witalla                                            | 12/10/97 | 2/13/01  |          |
| 6,190,764 | Inductive Write Head For Magnetic Data Storage Media                                                                                   | Shi, He, Hossain, Miller                           | 11/23/98 | 2/20/01  |          |
| 6,193,584 | Apparatus and Method of Device Stripe Height Control                                                                                   | Rudy, Macchioni, Shen, Crue, Harnischfeger, Plewes | 5/27/99  | 2/27/01  |          |

# EXHIBIT A

## PATENTS AND PATENT APPLICATIONS

|           |                                                                                                         |                                          |          |         |          |
|-----------|---------------------------------------------------------------------------------------------------------|------------------------------------------|----------|---------|----------|
| 6,195,229 | Thin Film MR Head and Method of Making Wherein Pole Trim Takes Place at the Wafer Level                 | Shen, Higa-Baral, Wang                   | 8/30/99  | 2/27/01 |          |
| 6,198,608 | MR Sensor with Blunt Contiguous Junction and Slow-Milling-Rate Read Gap                                 | Hong, Knapp                              | 3/18/99  | 3/6/01  |          |
| 6,198,609 | CPP Magnetoresistive Device with Reduced Edge Effect and Method for Making Same                         | Barr, Crue, Zhao                         | 11/9/98  | 3/6/01  |          |
| 6,201,673 | System for Biasing a Synthetic Free Layer in a Magnetoresistance Sensor                                 | Rottmayer, Zhu, Knapp, Huai              | 4/2/99   | 3/13/01 |          |
| 6,204,998 | Multi-Tapped Coil Having Tapped Segments Cascaded for Amplification for Improving Signal-to-Noise Ratio | Katz                                     | 3/23/98  | 3/20/01 | Redacted |
| 6,204,999 | Method and System for Providing a Write Head Having a Conforming Pole Structure                         | Crue, Knapp, Shi, Thomas                 | 12/23/98 | 3/20/01 |          |
| 6,212,153 | High NA Solid Catadioptric Focusing Device Having a Flat Kinoform Phase Profile                         | Chen, He, Stovall, Cheng                 | 1/21/99  | 4/3/01  |          |
| 6,215,625 | Apparatus and Method for Adhesive Bridge Suspension Attachment                                          | Carl Carlson                             | 1/4/99   | 4/10/01 |          |
| 6,219,205 | High Density Giant Magnetoresistive Transducer with Recessed Sensor                                     | Yuan, Rottmayer                          | 10/10/95 | 4/17/01 |          |
| 6,221,218 | Method of Forming an Inductive Write Head for Magnetic Data Storage Media                               | Shi, He, Hossain, Miller                 | 2/17/99  | 4/24/01 |          |
| 6,222,707 | Bottom or Dual Spin Valve Having a Seed Layer that Results in an Improved Antiferromagnetic Layer       | Huai, Anderson, Zhu, Chen, Hikami        | 12/28/98 | 4/24/01 |          |
| 6,229,672 | High Gram Load Air Bearing Geometry for a Tri-pad Slider                                                | Lee, Chang, Levi, Prabhu, Anaya-Dufresne | 10/19/98 | 5/8/01  |          |
| 6,229,782 | High Numerical Aperture Optical Focusing Device for Use in Data Storage Systems                         | Wang, He, Chen, Miceli, Cheng, Stovall   | 10/26/98 | 5/8/01  |          |
| 6,230,959 | Head Suspension Having Gram Load Change Reduction and Method of Assembly                                | Heist, Aimonetti, Biondo, Tucker         | 7/17/00  | 5/15/01 |          |
| 6,233,116 | Thin Film Write Head with Improved Laminated Flux Carrying Structure and Method of Fabrication          | Chen, Shi, Hossain                       | 11/13/98 | 5/15/01 |          |

# EXHIBIT A

## PATENTS AND PATENT APPLICATIONS

|           |                                                                                    |                           |          |          |          |
|-----------|------------------------------------------------------------------------------------|---------------------------|----------|----------|----------|
| 6,233,125 | CPP Magnetoresistive Device and Method for Making Same                             | Knapp, Barr               | 5/15/00  | 5/15/01  |          |
| 6,236,543 | Durable Landing Pads for an Air-Bearing Slider                                     | Han, Linden, Ryan, Boman  | 1/29/99  | 5/22/01  |          |
| 6,237,215 | Test Fixture for Positioning and Testing a Magnetic Head                           | Hunsaker, Darr            | 2/6/98   | 5/29/01  |          |
| 6,246,547 | Low Profile Flexure and Slider-Flexure Assembly                                    | Bozorgi, Zarouri          | 2/16/99  | 6/12/01  |          |
| 6,249,404 | Head Gimbal Assembly with a Flexible Printed Circuit Having a Serpentine Substrate | Doundakov, Young          | 2/4/99   | 6/19/01  | Redacted |
| 6,252,743 | Read/Write Positioning Arm with Interspaced Amplifier Chips                        | Bozorgi                   | 11/2/98  | 6/26/01  |          |
| 6,255,721 | Method and Tool for Handling Micro-Mechanical Structures                           | Roberts                   | 7/14/99  | 7/3/01   |          |
| 6,258,468 | AMR Read Sensor Structure and Method with High Magnetoresistive Coefficient        | Mahvan, Mahajan, Basi     | 12/22/98 | 7/10/01  |          |
| 6,266,216 | Inductive/MR Composite Type Thin-Film Magnetic Head with NLTS Reduction            | Hikami, Komaki, Takagishi | 11/7/97  | 7/24/01  |          |
| 6,275,354 | Magnetic Head with a Toroidal Coil Encompassing Only One Yoke Layer                | Huai, Shi, Shen, Crue     | 11/21/98 | 8/14/01  |          |
| 6,277,505 | Read Sensor with Improved Thermal Stability and Manufacturing Method Therefor      | Shi, Mao, Leng            | 1/21/99  | 8/21/01  |          |
| 6,282,056 | Tapered Stitch Pole Writer for High Density Magnetic Recording                     | Feng, Shi, Crue           | 4/8/99   | 8/28/01  |          |
| 6,296,955 | High Moment and High Permeability Transducer Structures and Formation              | Hossain, Miller, Rath     | 5/24/99  | 10/2/01  |          |
| 6,304,414 | Thin Film Magnetic Write Head Having an Ultra-Low Stack Height                     | Crue, Apparao, Shi, Yao   | 7/20/99  | 10/16/01 |          |
| 6,307,715 | Head Suspension Having Reduced Torsional Vibration                                 | Berding, Young            | 8/30/96  | 10/23/01 |          |
| 6,310,746 | Piezoelectric Vibration Damping for Disk Drives                                    | Hawwa, Bozorgi            | 6/23/99  | 10/30/01 |          |
| 6,310,750 | Disk Drive Actuator Arm with Micro-actuated Read/Write Head Positioning            | Hawwa, Bozorgi            | 10/20/99 | 10/30/01 |          |

**EXHIBIT A**  
**PATENTS AND PATENT APPLICATIONS**

|           |                                                                                                        |                                              |          |          |          |
|-----------|--------------------------------------------------------------------------------------------------------|----------------------------------------------|----------|----------|----------|
| 6,317,290 | Advance Pole Trim Writer with Moment P1 and Low Apex Angle                                             | Wang, Shi, Hossain, Crue, Pang               | 8/31/99  | 11/13/01 |          |
| 6,317,297 | Current Pinned Dual Spin Valve with Synthetic Pinned Layers                                            | Tong, Shi, Dey, Gibbons                      | 10/6/99  | 11/13/01 |          |
| 6,322,911 | Spin-Valve Magnetic Resistance Sensor and Thin-Film Magnetic Head                                      | Fukagawa, Nishida, Ueno, Nose, Nagai, Higami | 2/1/00   | 11/27/01 |          |
| 6,330,131 | Reduced Stiction Air Bearing Slider                                                                    | Nepela, Schmidt                              | 9/17/93  | 12/11/01 |          |
| 6,330,136 | Magnetic Read Sensor with SDT Tri-Layer and Method for Making Same                                     | Wang, Lai, Min, Shi, Crue                    | 10/14/98 | 12/11/01 | Redacted |
| 6,330,137 | Magnetoresistive Read Sensor Including a Carbon Barrier Layer and Method for Making Same               | Knapp, Rottmayer, Ryan                       | 6/11/99  | 12/11/01 |          |
| 6,333,830 | Low Resistance Coil Structure for High Speed Writer                                                    | Rose, Shi, Knapp                             | 11/9/98  | 12/25/01 |          |
| 6,339,518 | Air Bearing Slider with Shaped Taper                                                                   | Chang, Lee, Donovan                          | 9/1/98   | 1/15/02  |          |
| 6,340,533 | Spin-Valve Magnetoresistance Sensor and Thin Film Magnetic Head                                        | Ueno, Nagai, Sawasaki, Hikami                | 11/19/99 | 1/22/02  |          |
| 6,349,014 | Magnetic Read/Write Device with Insulated Coil Layer Recessed into Pole                                | Crue, Apparao, Shi, Young, Seymour           | 5/14/99  | 2/19/02  |          |
| 6,349,017 | Magnetic Head Suspension Assembly Using Bonding Pads of a Slider to an Attachment Surface of a Flexure | Schott                                       | 2/21/97  | 2/19/02  |          |
| 6,351,355 | Spin Valve Device with Improved Thermal Stability                                                      | Min, Tong, Huai, Chen                        | 2/9/99   | 2/26/02  |          |
| 6,353,318 | Magnetoresistive Sensor Having Hard Biased Current Perpendicular to the Plan Sensor                    | Sin, Chen, Zhu, Crue                         | 3/10/00  | 3/5/02   |          |
| 6,353,511 | Thin Film Write Head for Improved High Speed and High Density Recording                                | Shi, Wang, Crue, Chen, Hossain               | 6/15/99  | 3/5/02   |          |
| 6,356,412 | Air Bearing Facilitating Load/Unload of a Magnetic Read/Write Head                                     | Levi, Anaya-Dufresne, Gan, Dong              | 9/30/99  | 3/12/02  |          |
| 6,369,983 | Write Head Having a Dry-Etchable Antireflective Intermediate Layer                                     | Hong                                         | 8/13/99  | 4/9/02   |          |
| 6,373,660 | Method and System for Providing a Permanent Shunt for a Head Gimbal Assembly                           | Lam, Chang, Martinez, Meyer, Chim            | 3/14/00  | 4/16/02  |          |

# EXHIBIT A

## PATENTS AND PATENT APPLICATIONS

|           |                                                                                                                                           |                                             |          |         |          |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------|---------|----------|
| 6,376,964 | Collocated Rotating Flexure Micro-actuator for Dual-Stage Servo in Disk Drives                                                            | Young, Fanslau, Hawwa                       | 5/16/01  | 4/23/02 |          |
| 6,377,535 | High Numerical Aperture Optical Focusing Device Having a Conical Incident Facet and a Parabolic Reflector for Use in Data Storage Systems | Chen, He, Carlson, Miceli, Cheng, Wang      | 10/26/98 | 4/23/02 |          |
| 6,378,195 | Read/Write Head with a Gimbal Ball Assembly                                                                                               | Carlson                                     | 10/23/00 | 4/30/02 |          |
| 6,381,095 | High Performance Thin Film Magnetic Write Element Having High Bs at Poles and Method for Making Same                                      | Sin, Barr                                   | 8/31/99  | 4/30/02 |          |
| 6,381,105 | Hybrid Dual Spin Valve Sensor and Method for Making Same                                                                                  | Huai, Anderson, Pakala, Chen, Zhu           | 10/22/99 | 4/30/02 | Redacted |
| 6,392,850 | Magnetoresistive Transducer Having a Common Magnetic Bias Using Assertive and Complementary Signals                                       | Tong, Liu, Tan, Rottmayer, Zhu, Yuan        | 10/19/98 | 5/21/02 |          |
| 6,396,660 | Magnetic Write Element Having a Thermally Dissipative Structure                                                                           | Jensen, Thomas                              | 8/23/99  | 5/28/02 |          |
| 6,399,179 | Base Plate For Suspension Assembly In Hard Disk Drive With Stress Isolation                                                               | Hanrahan, Schmidt, Heist, Tucker, Almonetti | 6/19/00  | 6/4/02  |          |
| 6,400,526 | Advanced Writer for Chip-On-Load Beam                                                                                                     | Crue, Zhi, Corona, Thomas                   | 5/26/99  | 6/4/02  |          |
| 6,404,600 | Disk Drive Actuator Arm with Microactuated Read/Write Head Positioning                                                                    | Hawwa, Bozorgi                              | 8/23/01  | 6/11/02 |          |
| 6,404,601 | Merged Write Head with Magnetically Isolated Pole tip                                                                                     | Rottmayer, Zhu, Sin, Barr                   | 1/25/00  | 6/11/02 |          |
| 6,404,706 | Laser Mounting for a Thermally Assisted GMR Head                                                                                          | Stovall, Wang, Carlson                      | 10/28/99 | 6/11/02 |          |
| 6,410,170 | High Resistivity FeXN Sputtered Films for Magnetic Storage Devices and Methods of Fabrication                                             | Chen, Qian                                  | 5/20/99  | 6/25/02 |          |
| 6,417,998 | Ultra Small Advanced Write Transducer and Method for Making Same                                                                          | Crue, Shi, Dhingra, Yao                     | 3/23/99  | 7/9/02  |          |
| 6,417,999 | Magnetoresistive Head Stabilized Structure and Method of Fabrication Thereof                                                              | Krupp, Barr, Lai, Rottmayer                 | 2/4/00   | 7/9/02  |          |

# EXHIBIT A

## PATENTS AND PATENT APPLICATIONS

|           |                                                                                                                                            |                                                   |          |         |          |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------|---------|----------|
| 6,418,000 | Dual, Synthetic Spin Valve Sensor Using Current Pinning                                                                                    | Gibbons, Lederman                                 | 1/21/99  | 7/9/02  |          |
| 6,418,048 | Spin Dependent Tunneling Sensor Suitable For Magnetic Memory                                                                               | Sin, Funada, Hiner, Shi                           | 10/2/01  | 7/9/02  |          |
| 6,421,211 | Piezoelectric Micro-actuated HGA for High TPI Hard Disk Drives                                                                             | Hawwa, Bozorgi                                    | 8/23/01  | 7/16/02 |          |
| 6,421,212 | Thin Film Read Head Structure With Improved Bias Magnet-To-Magnetoresistive Element Interface & Method Of Fabrication                      | Gibbons, Knapp, Barr, Law, Spallas, Zhao          | 9/21/99  | 7/16/02 |          |
| 6,424,505 | Method & System For Providing Electrostatic Discharge Protection for Flex-On-Suspension, Trace-Suspension Assembly, or Cable-On Suspension | Lam, Chang, Martinez                              | 5/6/99   | 7/23/02 |          |
| 6,424,507 | Spin Valve Magnetoresistive Sensor For High Temperature Environment Using Iridium Manganese                                                | Lederman, Nepela, Tong                            | 4/3/00   | 7/23/02 | Redacted |
| 6,430,009 | Compound Inductive & Magnetoresistive Type Thin Film Magnetic Head                                                                         | Komaki, et. al.                                   | 4/5/00   | 8/6/02  |          |
| 6,430,806 | Method For Manufacturing An Inductive Write Element Employing Bi-Layer Photoresist To Define A thin High Moment Pole Pedestal              | Chen, Barr, Tong, Shi, Sin                        | 6/23/00  | 8/13/02 |          |
| 6,433,965 | Double DLC Overcoat For GMR Sliders                                                                                                        | Gopinathan, Ryan, Sladek, Tiernan, Stacy, Mokarat | 3/2/00   | 8/13/02 |          |
| 6,433,968 | Merged Read/Write Head and Method For Manufacturing Same                                                                                   | Shi, Feng                                         | 5/2/00   | 8/13/02 |          |
| 6,433,970 | Structure and Method for Redeposition Free Thin Film Cpp Read Sensor Fabrication                                                           | Knapp, Barr, Wang, Law, Spallas                   | 6/7/99   | 8/13/02 |          |
| 6,437,945 | Airflow-Assisted Ramp Loading/Unloading In Hard Disk Drives                                                                                | Hawwa, Bozorgi, Menon                             | 12/28/99 | 8/20/02 |          |
| 6,445,536 | Dielectric Stencil Defined P-1 Process                                                                                                     | Hiner, Ra, Ravipati, Rudy, Shen, Tran,            | 8/27/98  | 9/3/02  |          |
| 6,445,542 | Triple Step Technique For Air-Bearing Fabrication                                                                                          | Levi, Sun, Dufresne, Prabhu                       | 3/6/00   | 9/3/02  |          |

**EXHIBIT A**  
**PATENTS AND PATENT APPLICATIONS**

|           |                                                                                                                      |                                    |          |          |          |
|-----------|----------------------------------------------------------------------------------------------------------------------|------------------------------------|----------|----------|----------|
| 6,445,553 | A Method for Fabricating A High Density SV Device                                                                    | Rottmayer, Barr                    | 4/2/99   | 9/3/02   |          |
| 6,445,554 | Edge -Junction TMR For Over 100Gb/in <sup>2</sup> Magnetic Recording                                                 | Dong, Shi                          | 3/10/00  | 9/3/02   |          |
| 6,447,935 | A Method to Improve Amplitude Asymmetry of Magnetoresistive Sensors Based on Spin Valve Effect                       | Zhang, Zhu, Huai, Rana, Chen       | 11/23/99 | 9/10/02  |          |
| 6,448,765 | A Novel MSM needle with AFM pinned Coating                                                                           | Chen, Qian                         | 10/28/99 | 9/10/02  |          |
| 6,451,514 | Method For Formation of Upper Magnetic Pole Layer of Thin Film Magnetic Head                                         | Iitsuka                            | 11/24/99 | 9/17/02  |          |
| 6,452,765 | Co/Nb/Ti As High Resistivity SAL Material For High-Density MR                                                        | Mahvan, Mahajan, Basi              | 11/18/98 | 9/17/02  |          |
| 6,452,742 | Low Coil Resistance P1 Defined Write Head                                                                            | Crue, Barr, Shi, Thomas            | 9/2/99   | 9/17/02  | Redacted |
| 6,456,465 | Vertical GMR Sensor Using A Recessed Shield                                                                          | Louis, Zhu, Bonyhard               | 11/9/99  | 9/24/02  |          |
| 6,459,552 | Sub-micron Track Width Co-Planar Thin Film Head                                                                      | Liu, Tong, Yuan                    | 3/20/00  | 10/1/02  |          |
| 6,462,920 | An Approach To MR/GMR Instability Solution                                                                           | Karimi                             | 12/23/98 | 10/8/02  |          |
| 6,466,401 | Ultra-compact Coils for Magnetic Write Heads with Ultra-short Yoke                                                   | Hong, Barr                         | 6/2/99   | 10/15/02 |          |
| 6,466,402 | Compact GMR Write Structure                                                                                          | Crue, Shi, Tong, Corona            | 6/18/99  | 10/15/02 |          |
| 6,466,404 | Recessed Coil GMR Device                                                                                             | Crue, Apparao, Shi, Young, Seymour | 11/26/01 | 10/15/02 |          |
| 6,468,436 | Increasing the efficiency of spin-valve GMR heads by using a flux guide on the back end of the sensor                | Shi, Tong, Zhao, Lui               | 7/12/00  | 10/22/02 |          |
| 6,469,877 | Spin Valve Device With Improved Exchange Layer                                                                       | Knapp, Barr                        | 6/15/99  | 10/22/02 |          |
| 6,477,019 | Thin Film Magnetic Head Including Non-Magnetic and Magnetic Layers With Similar Milling Rates                        | Matono, Shiromoto, Miyazaki        | 12/20/00 | 11/5/02  |          |
| 6,479,096 | GMR Spin Valve Having a Smooth Interface Between Magnetic and Non-Magnetic Layers, and Method for Manufacturing Same | Shi, Mao, Leng                     | 12/3/99  | 11/12/02 |          |



**EXHIBIT A**  
**PATENTS AND PATENT APPLICATIONS**

|           |                                                                                                                |                                          |          |          |          |
|-----------|----------------------------------------------------------------------------------------------------------------|------------------------------------------|----------|----------|----------|
| 6,483,662 | High Density Multi-Coil Magnetic Write Head Having A Reduced Yoke Length and Short Flux Rise time              | Thomas, Crue, Shi, Tran                  | 7/9/99   | 11/19/02 |          |
| 6,487,040 | Thin Film Magnetic Head With Self-Aligned Pole Tips                                                            | Hsiao, Wang, Ravipati, Hiner, Jensen     | 11/24/99 | 11/26/02 |          |
| 6,487,066 | Method of Manufacturing a Non-Conformal Permanent Magnet                                                       | Gibbons, Knapp, Barr, Law, Spallas, Zhao | 5/20/02  | 11/26/02 |          |
| 6,490,125 | Thin Film Head With Improved Yoke to Pole Stitch                                                               | Barr                                     | 4/9/99   | 12/3/02  |          |
| 6,496,330 | Advanced Writer with Split Electrical Circuit for High Data Rate Magnetic Recording                            | Crue, Shi, Thomas, Wang                  | 9/9/99   | 12/17/02 |          |
| 6,496,334 | New Planarization Process For Reader Track Width Control                                                       | Tong, Pang, Dong, Lin, Hsiang            | 5/26/00  | 12/17/02 |          |
| 6,504,676 | Magnetic Head With Low Stack Height & Self-Aligned Pole Tips                                                   | Hiner, Crue, Jensen, Wang, Ravipati      | 12/10/99 | 1/7/03   |          |
| 6,512,659 | Disk Drive Actuator With Micro-Actuated Read/Write Head Positioning                                            | Hawwa, Bozorgi                           | 3/21/02  | 1/28/03  | Redacted |
| 6,512,661 | Vertical Giant Magnetoresistance Sensor Utilizing An Insulating Bias Layer                                     | Louls                                    | 8/10/00  | 1/28/03  |          |
| 6,512,690 | High Sensitivity Common Source Amplifier MRAM Cell, Memory Array & Read/Write Scheme                           | Qi, Shi                                  | 11/21/01 | 1/28/031 |          |
| 6,515,573 | Method & System For Providing Edge-Junction TMR Utilizing A Hard Magnet Pinned Layer                           | Dong, Shi, Leng                          | 6/19/00  | 2/4/03   |          |
| 6,532,823 | Insulator Layers For Magnetoresistive Transducers                                                              | Knapp, Rottmayer, Hong                   | 3/18/99  | 3/18/03  |          |
| 6,535,363 | Magnetic Resistance Effect Type Thin-film Magnetic Head & Method For Manufacturing Same                        | Hosomi, Sawasaki, Matsuhashi             | 1/13/00  | 3/18/03  |          |
| 6,538,850 | Low Profile Head Gimbal Assembly With Shock Limiting & Load/Unload Capability & Method of Manufacture Thereof  | Hadian, Bozorgi                          | 10/6/99  | 3/25/03  |          |
| 6,552,874 | Shared Pole Magnetic Read/Write Head For Achieving Optimized Erase Band Width & Method Of Fabricating The Same | Chen, Apparao, Crue                      | 5/17/00  | 4/22/03  |          |

# EXHIBIT A

## PATENTS AND PATENT APPLICATIONS

|           |                                                                                                                |                                 |         |         |          |
|-----------|----------------------------------------------------------------------------------------------------------------|---------------------------------|---------|---------|----------|
| 6,552,928 | Read-Write Control Circuit For Magnetic Tunnel Junction MRAM                                                   | Qi, Shi                         | 11/8/01 | 4/22/03 | Redacted |
| 6,577,470 | Method & System For Providing A Tape Head Subassembly Structure Having An Integrated Wear Bar & Outrigger Rail | Rumpler                         | 1/25/01 | 6/10/03 |          |
| 6,583,961 | Air Bearing Facilitating Load / Unload OF A Magnetic Read/ Write Head                                          | Levi, Dong, Gan, Anaya-Dufresne | 9/19/01 | 6/24/03 |          |

|  |  |  |  | Status     | File Date |
|--|--|--|--|------------|-----------|
|  |  |  |  | 08/885,283 | 12/15/97  |
|  |  |  |  | 09/918,971 | 7/30/01   |
|  |  |  |  | 09/209,060 | 12/9/98   |
|  |  |  |  | 09/247,882 | 2/10/99   |
|  |  |  |  | 09/268,088 | 3/12/99   |
|  |  |  |  | 10/242,091 | 9/11/02   |
|  |  |  |  | 09/379,561 | 8/23/99   |
|  |  |  |  | 09/325,104 | 6/3/99    |
|  |  |  |  | 10/153,067 | 5/20/02   |
|  |  |  |  | 10/152,909 | 5/20/02   |
|  |  |  |  | 09/304,224 | 5/3/99    |
|  |  |  |  | 10/013,431 | 12/11/01  |

**EXHIBIT A**  
**PATENTS AND PATENT APPLICATIONS**

|  |  |  |  |            |          |
|--|--|--|--|------------|----------|
|  |  |  |  | 09/349,745 | 7/8/99   |
|  |  |  |  | 10/175,399 | 6/18/02  |
|  |  |  |  | 09/351,743 | 7/8/99   |
|  |  |  |  | 10/126,306 | 4/18/02  |
|  |  |  |  | 09/326,904 | 6/7/99   |
|  |  |  |  | 10/225,088 | 8/20/02  |
|  |  |  |  | 10/112,685 | 3/27/02  |
|  |  |  |  | 09/413,614 | 10/6/99  |
|  |  |  |  | 10/243,401 | 9/12/02  |
|  |  |  |  | 10/242,921 | 9/13/02  |
|  |  |  |  | 09/665,431 | 9/19/00  |
|  |  |  |  | 09/544,952 | 4/7/00   |
|  |  |  |  | 09/464,291 | 12/15/99 |
|  |  |  |  | 09/745,708 | 12/21/00 |
|  |  |  |  | 09/587,640 | 6/5/00   |
|  |  |  |  | 09/476,189 | 1/3/00   |
|  |  |  |  | 10/178,599 | 6/24/02  |
|  |  |  |  | 09/613,929 | 7/11/00  |
|  |  |  |  | 09/505,092 | 2/16/00  |
|  |  |  |  | 09/519,280 | 3/7/00   |

Redacted

**EXHIBIT A**  
**PATENTS AND PATENT APPLICATIONS**

|  |  |  |  |  |            |          |
|--|--|--|--|--|------------|----------|
|  |  |  |  |  | 09/502,370 | 2/11/00  |
|  |  |  |  |  | 09/500,380 | 2/8/00   |
|  |  |  |  |  | 09/886,792 | 6/20/01  |
|  |  |  |  |  | 10/170,979 | 6/13/02  |
|  |  |  |  |  | 09/705,420 | 11/2/00  |
|  |  |  |  |  | 09/641,025 | 8/16/00  |
|  |  |  |  |  | 09/594,417 | 6/16/00  |
|  |  |  |  |  | 09/670,413 | 9/26/00  |
|  |  |  |  |  | 09/585,988 | 6/2/00   |
|  |  |  |  |  | 09/810,819 | 3/16/01  |
|  |  |  |  |  | 09/618,849 | 7/18/00  |
|  |  |  |  |  | 09/722,356 | 1/29/01  |
|  |  |  |  |  | 09/740,749 | 12/18/00 |
|  |  |  |  |  | 09/747,202 | 12/21/00 |
|  |  |  |  |  | 09/617,791 | 7/18/00  |
|  |  |  |  |  | 09/770,925 | 1/25/01  |
|  |  |  |  |  | 09/828,635 | 4/4/01   |
|  |  |  |  |  | 09/769,060 | 1/23/01  |

Redacted

**EXHIBIT A**  
**PATENTS AND PATENT APPLICATIONS**

|  |  |  |  |  |            |          |
|--|--|--|--|--|------------|----------|
|  |  |  |  |  | 09/999,694 | 10/24/01 |
|  |  |  |  |  | 09/943,859 | 8/30/01  |
|  |  |  |  |  | 09/875,413 | 6/5/01   |
|  |  |  |  |  | 10/222,322 | 8/16/02  |
|  |  |  |  |  | 09/999,605 | 10/25/01 |
|  |  |  |  |  | 09/884,702 | 6/19/01  |
|  |  |  |  |  | 09/902873  | 7/10/01  |
|  |  |  |  |  | 09/875,601 | 6/5/01   |
|  |  |  |  |  | 09/933,508 | 8/20/01  |
|  |  |  |  |  | 10/180,161 | 6/25/02  |
|  |  |  |  |  | 09/963,288 | 9/24/01  |
|  |  |  |  |  | 10/074,494 | 2/11/02  |
|  |  |  |  |  | 10/020,663 | 12/14/01 |
|  |  |  |  |  | 10/017,647 | 12/12/01 |
|  |  |  |  |  | 10/055,118 | 1/22/02  |
|  |  |  |  |  | 10/074,394 | 2/11/02  |

Redacted

**EXHIBIT A**  
**PATENTS AND PATENT APPLICATIONS**

|  |  |  |  |  |            |          |
|--|--|--|--|--|------------|----------|
|  |  |  |  |  | 10/017,925 | 12/7/01  |
|  |  |  |  |  | 09/978,435 | 10/16/01 |
|  |  |  |  |  | 09/929,932 | 8/15/01  |
|  |  |  |  |  | 10/024,115 | 12/18/01 |
|  |  |  |  |  | 10/026,327 | 12/21/01 |
|  |  |  |  |  | 10/026,152 | 12/21/01 |
|  |  |  |  |  | 10/194,548 | 7/11/02  |
|  |  |  |  |  | 10/226,398 | 8/22/02  |
|  |  |  |  |  | 09/907,152 | 7/16/01  |
|  |  |  |  |  | 10/079,116 | 2/20/02  |
|  |  |  |  |  | 10/056,936 | 10/23/01 |
|  |  |  |  |  | 10/007,430 | 10/22/01 |
|  |  |  |  |  | 10/071,796 | 2/6/02   |
|  |  |  |  |  | 10/086,756 | 2/28/02  |

Redacted

**EXHIBIT A**  
**PATENTS AND PATENT APPLICATIONS**

|  |  |  |  |            |          |
|--|--|--|--|------------|----------|
|  |  |  |  | 10/071,798 | 2/6/02   |
|  |  |  |  | 10/137,030 | 5/1/02   |
|  |  |  |  | 10/042,674 | 1/8/02   |
|  |  |  |  | 10/024,438 | 12/18/01 |
|  |  |  |  | 09/952,989 | 9/14/01  |
|  |  |  |  | 10/290,880 | 11/7/02  |
|  |  |  |  | 10/213,532 | 8/6/02   |
|  |  |  |  | 10/100,790 | 3/19/02  |
|  |  |  |  | 10/087,505 | 3/1/02   |
|  |  |  |  | 10/042,673 | 1/8/02   |
|  |  |  |  | 10/016,027 | 12/12/01 |
|  |  |  |  | 10/101,270 | 3/19/02  |
|  |  |  |  | File       |          |
|  |  |  |  | 10/261,119 | 9/30/02  |
|  |  |  |  | 10/260,896 | 9/30/02  |
|  |  |  |  | 10/180,202 | 6/25/02  |

Redacted

**EXHIBIT A**  
**PATENTS AND PATENT APPLICATIONS**

|  |  |  |          |            |         |
|--|--|--|----------|------------|---------|
|  |  |  |          | 10/146,517 | 5/14/02 |
|  |  |  |          | 10/159,529 | 5/30/02 |
|  |  |  |          | 10/161,522 | 6/3/02  |
|  |  |  |          | File       |         |
|  |  |  |          | 10/192,458 | 7/9/02  |
|  |  |  |          | File       |         |
|  |  |  |          | 10/193,833 | 7/11/02 |
|  |  |  |          | 10/100,751 | 3/19/02 |
|  |  |  |          | 10/214,044 | 8/7/02  |
|  |  |  |          | 10/155,598 | 5/22/02 |
|  |  |  | Redacted | 10/176,016 | 6/19/02 |
|  |  |  |          | 10/192,430 | 7/9/02  |
|  |  |  |          | 10/134,799 | 4/29/02 |
|  |  |  |          | File       |         |
|  |  |  |          | File       |         |



**EXHIBIT A**  
**PATENTS AND PATENT APPLICATIONS**

|  |  |  |  |  |            |          |
|--|--|--|--|--|------------|----------|
|  |  |  |  |  | 10/277,463 | 10/21/02 |
|  |  |  |  |  | File       |          |
|  |  |  |  |  | File       |          |
|  |  |  |  |  | 10/213,339 | 8/6/02   |
|  |  |  |  |  | 10/223,922 | 8/19/02  |
|  |  |  |  |  | 10/223,992 | 8/19/02  |
|  |  |  |  |  | File       |          |
|  |  |  |  |  | 10/222,042 | 8/16/02  |
|  |  |  |  |  | 10/356,149 | 1/30/03  |
|  |  |  |  |  | 10/326,514 | 12/20/02 |
|  |  |  |  |  | File       |          |
|  |  |  |  |  | 10/364,799 | 2/11/03  |
|  |  |  |  |  | 10/375,539 | 2/27/03  |
|  |  |  |  |  | File       |          |
|  |  |  |  |  | 10/349,470 | 1/22/03  |
|  |  |  |  |  | 10/323,128 | 12/18/02 |
|  |  |  |  |  | 60/459,715 | 4/2/03   |

Redacted



Western Digital Corporation  
20511 Lake Forest Drive, E118-G  
Lake Forest, California 92630

Tel: 949.672.7000  
Fax: 949.672.6604

|                                                                                                                                                                                                                                                                                                                                                                          |                                                                      |                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|-------------------------|
| TO: COMMISSIONER FOR PATENTS, U.S. PATENT & TRADEMARK OFFICE                                                                                                                                                                                                                                                                                                             |                                                                      |                         |
| FAX NO: (571) 273-0140 (ASSIGNMENT DIVISION)                                                                                                                                                                                                                                                                                                                             |                                                                      |                         |
| NO. OF PAGES: Cover + 33                                                                                                                                                                                                                                                                                                                                                 |                                                                      |                         |
| <b>CERTIFICATE OF FACSIMILE TRANSMISSION</b><br>I hereby certify that this correspondence is being facsimile transmitted to the U.S. Patent and Trademark Office on the date indicated below.<br><br>Renee M. Franks<br>Typed/Printed Name<br><br>Signature<br>November 1, 2006<br>Date | APPLICATION NO.                                                      | 10/783,678              |
|                                                                                                                                                                                                                                                                                                                                                                          | FILING DATE                                                          | 02/20/2004              |
|                                                                                                                                                                                                                                                                                                                                                                          | FIRST NAMED INVENTOR                                                 | Dallas W. Meyer, et al. |
|                                                                                                                                                                                                                                                                                                                                                                          | ART UNIT                                                             | 3729                    |
|                                                                                                                                                                                                                                                                                                                                                                          | CONFIRMATION NO.                                                     | 6998                    |
|                                                                                                                                                                                                                                                                                                                                                                          | EXAMINER                                                             | Anthony D. Tugbang      |
| ATTORNEY DOCKET NO.                                                                                                                                                                                                                                                                                                                                                      | K35R1672.D1                                                          |                         |
| TITLE                                                                                                                                                                                                                                                                                                                                                                    | PROCESS OF MAKING A NON-CORROSIVE GMR SLIDER FOR PROXIMITY RECORDING |                         |

#### ATTACHED WITH THIS SUBMISSION:

1. Recordation Form Cover Sheet (1 page)
2. Assignment of Patent Rights (32 pages)

PLEASE CONFIRM RECEIPT OF THIS TRANSMISSION. IF THERE IS ANY PROBLEM WITH THIS TRANSMISSION, PLEASE CALL RENEE M. FRANKS AT (949) 672-7871.

#### CONFIDENTIALITY NOTE

THE INFORMATION CONTAINED IN THIS FACSIMILE TRANSMISSION MAY BE LEGALLY PRIVILEGED AND IS CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR ENTITY NAMED ABOVE. IT IS EXEMPT FROM DISCLOSURE UNDER APPLICABLE LAW, INCLUDING COURT ORDERS, IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT OR THE EMPLOYEE OR AGENT RESPONSIBLE FOR DELIVERING THIS FACSIMILE TRANSMISSION TO THE INTENDED RECIPIENT. YOU ARE HEREBY NOTIFIED THAT ANY USE, DISSEMINATION, DISTRIBUTION OR COPY OF THIS FACSIMILE TRANSMISSION OR ITS INFORMATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS FACSIMILE TRANSMISSION IN ERROR, PLEASE IMMEDIATELY NOTIFY US BY TELEFAX OR TELEPHONE USING THE ABOVE NUMBERS AND AIRMAIL THIS FACSIMILE TRANSMISSION BACK TO US IMMEDIATELY. THANK YOU.

Y:\IP PROGRAM\K35R FILES\R1600 - R1699\R1672.D1\PTO\R1672D1\_Faxcover USPTO - ASSIGNMENT.doc