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OMB No. 0651-0027 (exp. 6/30/2005)

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Trustee for the Bankruptcy Estate of READ-RITE CORPORATION

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: July 31, 2003

2. Name and address of receiving party(ies)

Name: WESTERN DIGITAL (FREMONT), INC.

Internal Address: _____

Street Address: 44100 OSGOOD ROAD

City: FREMONT State: CA Zip: 94530

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

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

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) _____

B. Patent No.(s) _____

See Attached Schedule

Additional numbers attached? Yes No

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

Name: MILAD G. SHARA, REG. NO. 39,367

Internal Address: _____

WESTERN DIGITAL TECHNOLOGIES, INC.

INTELLECTUAL PROPERTY DEPT. - E118-G

Street Address: 20511 LAKE FOREST DRIVE

City: LAKE FOREST State: CA Zip: 92630

6. Total number of applications and patents involved: 71

7. Total fee (37 CFR 3.41).....\$ 2,840.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

23-1055

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9. Signature.

MILAD G. SHARA, REG. NO. 39,367

Name of Person Signing

Signature

4/19/04
Date

Total number of pages including cover sheet, attachments, and documents: 38

Mail documents to be recorded with required cover sheet information to:

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Washington, D.C. 20231

02/02/2004 ECOOPER 00000061 231055 4371905

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SCHEDULE A

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	
4,897,001	De-Staking Tool and Method for Removal of Head Gimbals from Head Stack Assemblies	Rumpler	2/25/88	1/30/90	Redacted
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	
5,138,507	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	
5,187,626	Disk Head Assembly Attachment Means and Method	Hopkins, Kemp, Coon	4/22/91	2/16/93	
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	
5,434,826	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)	Rottmayer	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	

SCHEDULE A

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 Magneto-resistive Sensing Head Having In-Gap Flux Guide and Flux Closure Piece with Particular Connection of Magneto-resistive 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	
5,567,864	Method and Apparatus for Calibration of a Transducer Flying Height Measurement Instrument	Coon, Watkins, Kropp	6/22/94	10/22/96	Redacted
5,612,839	Contact Recording Slider with Active Contact Surface	Jacques	7/18/94	3/18/97	
5,740,148	Stationary Optical Data Storage System using Holographic or Acousto-optical Deflection	Ja	1/7/97	4/14/98	
5,742,581	Transmissive Optical and Magneto-optical Data Storage Media	Ja	1/7/97	4/21/98	
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	
5,886,959	Thin-Film Electro-Magnetic Coil Design for Use in a Flying Magneto-Optical Head	Bischoff, Wang	2/4/98	3/23/99	
5,894,465	Transmissive Data Storage Media and an Optical Head Using Holographic or Acousto-Optical Deflection	Ja	1/5/98	4/13/99	
5,903,525	Coil for Use with Magneto-Optical Head	McDaniel, Wang	4/18/97	5/11/99	

SCHEDULE A

5,935,403	Magnetic Thin Film and Magnetic Thin Film Manufacturing Method	Suzuki, Komaki	6/24/97	8/10/99	
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	
5,968,626	Transmissive Optical and Magneto-Optical Data Storage Media and Method of Making the Same	Ja	2/14/98	10/19/99	
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	
5,986,978	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	
5,986,995	High NA Catadioptric Focusing Device Having Flat Diffractive Surfaces	He, Chen, Cheng	1/21/99	11/16/99	
6,016,290	Read/Write Head with Shifted Waveguide	Chen, Stovall, Carlson	2/12/99	1/18/00	
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	
6,033,532	Oxide Film Fabrication Method and Electronic Device	Minami	2/27/97	3/7/00	
6,046,885	Base Plate Suspension Assembly in a Hard Disk With Step in Flange	Aimonetti, Hanrahan, Heist, Schmidt, Tucker	4/3/98	4/4/00	
6,049,650	Structure for Micro-Machine Optical Tooling and Method for Making and Using		4/11/00		
6,058,094	Flying Magneto-Optical Head With A Steerable Mirror	Davis, Wilde	2/7/97	5/2/00	Redacted

SCHEDULE A

6,075,673	Composite Slider Design	Wilde, Hurst, Heanue, Jerman	7/8/98	6/13/00
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
6,125,018	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
6,178,150	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
6,181,673	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
6,212,153	High NA Solid Catadioptric Focusing Device Having a Flat Kinoform Phase Profile	Chen, He, Stovall, Cheng	1/21/99	4/3/01
6,229,782	High Numerical Aperture Optical Focusing Device for Use in Data Storage Systems	Wang, He, Chen, Miceli, Cheng, Stovall	10/26/98	5/8/01
6,255,721	Method and Tool for Handling Micro-Mechanical Structures	Roberts	7/14/99	7/3/01
6,266,216	Inductive/MR Composite Type Thin-Film Magnetic Head with NLTS Reduction	Hikami, Komaki, Takagishi	11/7/97	7/24/01
6,307,715	Head Suspension Having Reduced Torsional Vibration	Berding, Young	8/30/96	10/23/01
6,322,911	Spin-Valve Magnetic Resistance Sensor and Thin-Film Magnetic Head	Fukagawa, Nishida, Ueno, Nose, Nagai,	2/1/00	11/27/01

SCHEDULE A

		Higami			
6,340,533	Spin-Valve Magnetoresistance Sensor and Thin Film Magnetic Head	Ueno, Nagai, Sawasaki, Hikami	11/19/99	1/22/02	
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, Micefi, Cheng, Wang	10/26/98	4/23/02	
6,404,706	Laser Mounting for a Thermally Assisted GMR Head	Stovall, Wang, Carlson	10/28/99	6/11/02	
6,430,009	Compound Inductive & Magnetoresistive Type Thin Film Magnetic Head	Komaki, et. al.	4/5/00	8/6/02	Redacted
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	CoNbTi As High Resistivity SAL Material For High Density MR	Mahvan, Mahajan, Basi	11/18/98	9/17/02	
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	
6,532,823	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	

APASched_REDACTED_Dec03 recordation

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.

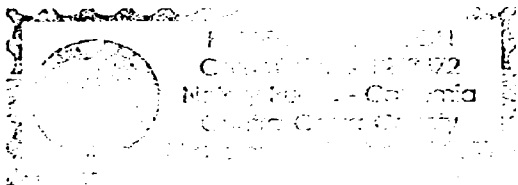
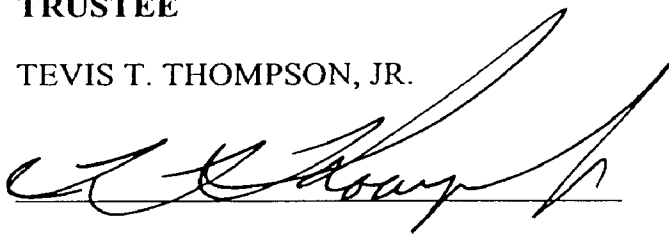
Trustee further agrees that, should additional or further documentation of the assignment be required for whatever reason, Trustee will, without further consideration, provide or execute such other information or documents as may be necessary upon Purchaser's reasonable request. Nothing in this Agreement 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, Jr. 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

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
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

Redacted

EXHIBIT A
PATENTS AND PATENT APPLICATIONS

5,256,266	Alumina Material Useful with Thin Film Heads	Blanchette, Maddex, 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 Magnetoresistive 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, Peceimer	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, 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)	Rottmayer	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	Rottmayer	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, Buttar, 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, Tomng, Nepela	6/20/96	4/21/98	

EXHIBIT A
PATENTS AND PATENT APPLICATIONS

	Ja				
5,742,581	Transmissive Optical and Magneto-optical Data Storage Media		1/7/97	4/21/98	
5,748,413	Magneto-resistive Read Transducer with Exchange Biasing of Magneto-resistive 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, Sarhadi	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, Darr	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, Bond,	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	
5,772,493	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 Magneto-resistive Sensors	Nepela	8/26/96	8/11/98	

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 Magneto-resistive 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, Korm	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	Magneto-resistive 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	Magneto-resistive Sensor Having a Pinned Soft Magnetic Layer	Kroes, Lederman, Yuan	3/17/99	7/13/99	
5,928,715	Thin Film Magneto-resistive Device Having Contiguous Magneto-resistive, 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	Magneto-resistive 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	Magneto-resistive 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	Huai, 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 Wafer 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	Hiner, 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 Magneto-resistive 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	Aimonetti, Hanrahan, Heist, Schmidt, Tucker	4/3/98	4/4/00	
6,049,650	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	
6,058,094	Flying Magneto-Optical Head With A Steerable Mirror	Davis, Wilde	2/7/97	5/2/00	Redacted
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 Magneto-resistive 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
6,136,166	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	Magneto-resistive 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
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, Micelli	6/23/99	2/6/01
6,185,077	Spin Valve Sensor with Antiferromagnetic and Magnetostatically Coupled Pinning 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 Magneto-resistive Transducers	Simion, Chen, Miller	6/30/99	2/6/01
6,188,549	Magneto-resistive Read/Write Head with High-Performance Gap Layers	Wittala	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, Hamischfeger, Plewes	5/27/99	2/27/01

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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 N LTS 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, Rathi	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, Aimonetti	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, Tieman, Stacy, Mokaratat	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 ² 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	CoNbTi 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	
6,456,465	Vertical GMR Sensor Using A Recessed Shield	Louis, Zhu, Bonyhard	11/9/99	9/24/02	Redacted
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	
6,487,056	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	Louis	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, Matsuhasaki	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	

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

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