

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
QUANTUM PERIPHERALS COLORADO, INC.	05/16/1997

RECEIVING PARTY DATA

Name:	MKE-QUANTUM COMPONENTS LLC
Street Address:	1450 Infinite Drive
City:	Louisville
State/Country:	COLORADO
Postal Code:	80027

PROPERTY NUMBERS Total: 1

Property Type	Number
Patent Number:	6356410

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	Carol W. Burton
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Total Attachments: 8
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PATENT APPLICATION AND INVENTION DISCLOSURE ASSIGNMENT

WHEREAS, QUANTUM CORPORATION, a Delaware corporation, is the owner of the United States patent applications and the invention disclosure listed on the attached Schedule I ("QUANTUM PATENT APPLICATIONS AND INVENTION DISCLOSURE BEING ASSIGNED TO MKE-QUANTUM COMPONENTS LLC") and of the foreign counterpart patents and patent applications thereof;

WHEREAS, prior to the merger set forth below QUANTUM PERIPHERALS COLORADO, INC., a Delaware corporation, was the owner of the United States patent applications and invention disclosures listed on the attached Schedule II ("QUANTUM PERIPHERAL COLORADO PATENT APPLICATIONS AND INVENTION DISCLOSURES") and of the foreign counterpart patents and patent applications thereof;

WHEREAS, as of May 13, 1997 QUANTUM PERIPHERALS COLORADO, INC. and QUANTUM PERIPHERALS COLORADO LLC were merged, with QUANTUM PERIPHERALS COLORADO LLC being the surviving entity of such merger;

WHEREAS, as of May 13, 1997 QUANTUM PERIPHERALS COLORADO LLC has by name change become MKE-QUANTUM COMPONENTS COLORADO LLC; and

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WHEREAS, as of May 16, 1997 QUANTUM has contributed MKE-QUANTUM COMPONENTS COLORADO LLC. to MKE-QUANTUM COMPONENTS LLC as a wholly owned subsidiary;

WHEREAS, MKE-QUANTUM COMPONENTS LLC, a Delaware limited liability company, is desirous of acquiring all of the above said United States patent applications, foreign counterparts and invention disclosures;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, QUANTUM hereby assigns to MKE-QUANTUM COMPONENTS LLC all right, title and interest, in and to said Schedule I patent applications and all foreign counterpart patents and patent applications thereof including all reissues, reexamination certificates and all extensions thereof, and assigns to MKE-QUANTUM COMPONENTS LLC the right to sue infringing parties for and recover from past and future infringement of said patents, and authorizes and requests any official whose duty it is to maintain records of ownership of any of said patents and patent applications to transfer record ownership of said patents and patent applications unto MKE-QUANTUM COMPONENTS LLC.

Further, QUANTUM confirms that all right, title and interest in and to said Schedule II patent applications and invention disclosures and all foreign counterpart patents and patent applications thereof including all reissues, reexamination certificates and all extensions thereof, were owned by QUANTUM PERIPHERALS COLORADO, INC. and through the merger and name change set forth above are now owned by MKE-QUANTUM COMPONENTS COLORADO LLC, now

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a wholly owned subsidiary of MKE-QUANTUM COMPONENTS LLC, including the right to sue infringing parties for and recover from past and future infringement of all patents issuing from said patent applications and invention disclosures, and, to the extent such may be necessary or appropriate, authorizes and requests any official whose duty it is to maintain records of ownership of any of said patent applications to transfer record ownership of said patent applications unto MKE-QUANTUM COMPONENTS COLORADO, LLC.

Executed at Palo Alto, California, this 16th day of May, 1997.

QUANTUM CORPORATION

By: Michael A. Brown

Name: Michael A. Brown

Title: President

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State of California)
) ss.
County of Santa Clara)

On the 16th day May, 1997, before me, BARBARA A. HILL, a
Notary Public, personally appeared MICHAEL A. BROWN, personally known
to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is
subscribed to the within instrument and acknowledged to me that he/~~she~~ executed the same in
his/~~her~~ authorized capacity, and that by his/her signature on the instrument the entity upon behalf
of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Barbara A. Hill
Signature of the Notary



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SCHEDULE I**QUANTUM PATENT APPLICATIONS AND INVENTION DISCLOSURE
BEING ASSIGNED TO MKE-QUANTUM COMPONENTS LLC****Assigned Patent Applications**

<u>Docket</u>	<u>Serial No.</u>	<u>Filing Date</u>	<u>Title</u>
87-039DIV1	08/743270	11/04/96	Magnetic Devices with Enhanced Poles
92-0011-US2	08/572812	12/15/95	Thin Film Magnetic Read/Write Head
93-0067CONT	08/422016	04/12/95	Asymmetrical Rails for Air Bearing Sliders
93-0418CONT	08/409550	03/24/95	Uniform Fly Height Slider with Decreased Roll Moments
Q2315US1	08/537866	12/18/95	Head Inductance Reducing Layer
Q2320US1	08/607506	02/27/96	High Bandwidth Glide Head with Thin-Film Piezoelectric Transducer
Q96-1013US1	08/565032	11/30/95	Longitudinally Biased Magneto-resistive Sensor Having a Concave Shaped Active Region to Reduce Barkhausen Noise by Achieving a Substantially Single Magnetic Domain State
Q97-1008US1	08/777236	12/30/96	Laminated Plated Pole Pieces for Thin Film Magnetic Transducers
Q97-1052US1	08/791401	01/30/97	Process for Producing a Pole-Trimmed Writer in a Magneto-resistive Read/Write Head and a Data Transducer Made Thereby
Q2279DIV1	08/688127	7/27/96	Digital Output Magneto-resistive (DOMR) Head and Methods Associated Therewith
Q96-1025US1	08/570487	12/11/95	Method for Forming Re-Entrant Photoresist Lift-Off Profile for thin Film Device Processing and a Thin Film Device Made Thereby
Q96-1046US1	08/668839	6/14/96	Method and Apparatus for Precisely Dimensioning Pole Tips of a Magnetic Transducing Head Structure
Q96-1098US1	08/704471	8/20/96	Method for Forming Photoresist Features Having Reentrant Profiles Using a Basic Agent

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Assigned Invention Disclosure

Q97-1089 (Disclosure)

**Tetris: A Wafer-Level Method for
Defining Track Width on a Recording
Head**

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SCHEDULE II

QUANTUM PERIPHERAL COLORADO PATENT APPLICATIONS
AND INVENTION DISCLOSURES

Assigned Patent Applications

<u>Docket</u>	<u>Serial No.</u>	<u>Filing Date</u>	<u>Title</u>
93-0070DIV1	08/392149	02/22/95	Magneto-resistive Device and Method Having Improved Barkhausen Noise Suppression
93-0439US1	08/550872	10/31/95	Magneto-resistive Read/Write Head
94-0174US2	08/804954	02/24/97	Flux Enhanced Write Transducer and Process for Producing the Same in Conjunction with Shared Shields and Magneto-resistive Read Heads
94-0174DIV1	08/681042	07/22/96	Flux Enhanced Write Transducer and Process for Producing the Same in Conjunction with Shared Shields and Magneto-resistive Read Heads
Q95-1001D1	08/664452	06/17/96	Shaped Spin Valve Type Magneto-resistive Transducer and Method for Fabricating the Same Incorporating Domain Stabilization Techniques
Q96-1034US1	08/550945	10/31/95	Tool for Processing Magnetic Read/Write Heads and Associated Method
Q96-1044US1	08/569674	12/08/95	Magneto-resistive Device Incorporating Conductor Geometry Providing Substantially Uniform Current Flow for Improved Magnetic Stability
Q96-1068US1	08/653322	5/24/96	Current-Perpendicular-To-The-Plane Spin Valve Type Magneto-resistive Transducer
Q95-1055US1	08/638633	4/26/96	Altitude Insensitive Negative Pressure Slider for a Disk Drive

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Assigned Invention Disclosures

Q97-1115	(Disclosure)	A Wafer-Level Method for Reducing Write Fringing on MR Recording Head
Q98-1004	(Disclosure)	Surface Topographical Control of Alumina Encapsulation Layer in Thin Film Magneto-Resistive Head Process
Q98-1005	(Disclosure)	Thin Encapsulation Process for Making Thin Film Magneto-Resistive Head

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RECORDED: 06/05/1997

RECORDED: 06/22/2009

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