

07-15-2002

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

PTO 10/180151 06/26/02

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

1. Name of conveying party(ies): Thomas McLendon Crawford Mark William Covington Gregory John Parker 06/26/02 Additional name(s) of conveying party(ies) attached? [] Yes [x] No

2. Name and address of receiving party(ies) Name: Seagate Technology LLC Internal Address: Street Address: 920 Disc Drive City: Scotts Valley State: CA Zip: 95066 Additional name(s) & address(es) attached? [] Yes [x] No

3. Nature of conveyance: [x] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: 6/17/2002; 6/18/2002; and 6/24/2002

4. Application number(s) or patent number(s): 10/180151 If this document is being filed together with a new application, the execution date of the application is: 6/17/02; 6/18/02 & 6/24/02 A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? [] Yes [x] No

6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41).....\$ 40.00 [] Enclosed [x] Authorized to be charged to deposit account

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Alan G. Towner Internal Address: Pietragallo, Bosick & Gordon Street Address: One Oxford Centre, 38th Floor 301 Grant Street City: Pittsburgh State: PA Zip: 15219

8. Deposit account number: 500859

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9. Signature. Alan G. Towner Name of Person Signing [Signature] Signature 06/26/2002 Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

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PATENT REEL: 013072 FRAME: 0430

ASSIGNMENT

Attorney Docket No. : SEAG 49467
Seagate Docket No. : STL 10393

WHEREAS, we, THOMAS MCLENDON CRAWFORD of 5 Worthington Road, Pittsburgh, PA 15238 U.S.A., a citizen of the United States of America; MARK WILLIAM COVINGTON of 6417 Kentucky Avenue, Pittsburgh, PA 15206 U.S.A., a citizen of the United States of America; and GREGORY JOHN PARKER of 202 Warren Road, Warrendale, PA 15086 U.S.A., a citizen of the United States of America, are the inventors of an invention entitled MAGNETIC RECORDING HEAD INCLUDING SPATIALLY-PUMPED SPIN WAVE MODE WRITER for which we have this day executed an application for Letters Patent; and

WHEREAS, Seagate Technology LLC, a limited liability company organized and existing under the laws of the State of Delaware and the United States of America, and having offices at 920 Disc Drive, Scotts Valley, California, 95066 USA, ("Assignee") is desirous of acquiring the entire right, title and interest in and to the invention, the applications, and any and all Letters Patent or similar foreign or domestic legal protection;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, I/we transfer to Assignee, its successors and assigns, my/our entire right, title and interest in and to the invention, the above-identified applications, all provisional applications from which any of the above-identified applications claim priority, corresponding domestic and foreign applications, any continuation, division, renewal, or substitute for the applications, all Letters Patent, any reissue, re-examination, or similar legal protection issuing related to the Letters Patent, and all rights and benefits under any applicable treaty or convention; and I/we authorize the Director of the United States Patent and Trademark Office or foreign equivalent to issue the Letters Patent or similar legal protection to the Assignee.

I/We authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and application numbers when ascertained. I/We further authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries and appoint Assignee the common representative in the above identified international application and any international application for the invention.

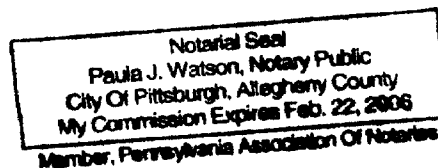
I/We represent to the Assignee, its successors and assigns, that I/we have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I/We, my/our executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute and deliver to Assignee or its legal representatives such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries, including without limitation providing testimony in any related interference, litigation or proceeding.

Handwritten signature of Thomas McLendon Crawford over a horizontal line, with the printed name THOMAS MCLENDON CRAWFORD below it.

Subscribed and sworn to before me at Allegheny County, a Notary Public, this 17 day of June, 2002.

Handwritten signature of Paula J. Watson over a horizontal line, with the printed name Notary Public below it.

(SEAL)



[Handwritten Signature]

MARK WILLIAM COVINGTON

Subscribed and sworn to before me at Allegheny County, a Notary Public, this 18 day of JUNE, 2002.

(SEAL)

[Handwritten Signature]
Notary Public

Notarial Seal
Paula J. Watson, Notary Public
City Of Pittsburgh, Allegheny County
My Commission Expires Feb. 22, 2006
Member, Pennsylvania Association Of Notaries

[Handwritten Signature]

GREGORY JOHN PARKER

Subscribed and sworn to before me at Allegheny County, a Notary Public, this 24 day of June, 2002.

(SEAL)

[Handwritten Signature]
Notary Public

Notarial Seal
Paula J. Watson, Notary Public
City Of Pittsburgh, Allegheny County
My Commission Expires Feb. 22, 2006
Member, Pennsylvania Association Of Notaries