503658184 01/21/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

EPAS ID: PAT3704818

CONVEYING PARTY DATA

Name	Execution Date
WENZHONG ZHU	01/05/2016
BRUCE D. BUCH	01/05/2016
KENNETH HAAPALA	01/05/2016

RECEIVING PARTY DATA

Name:	Seagate Technology LLC	
Street Address:	0200 South DeAnza Boulevard	
City:	Cupertino	
State/Country:	CALIFORNIA	
Postal Code:	95014	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14987028

CORRESPONDENCE DATA

Fax Number: (952)854-2722

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 952-854-2700

Email: tdotter@hdpatlaw.com **HOLLINGSWORTH DAVIS Correspondent Name:** Address Line 1: 8000 W. 78TH STREET

Address Line 2: SUITE 450

Address Line 4: MINNEAPOLIS, MINNESOTA 55439

ATTORNEY DOCKET NUMBER:	STR.043.A1
NAME OF SUBMITTER:	MARK A. HOLLINGSWORTH
SIGNATURE:	/Mark A. Hollingsworth/
DATE SIGNED:	01/21/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 4

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> **PATENT** REEL: 037544 FRAME: 0148 503658184

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> PATENT REEL: 037544 FRAME: 0149

Attorney Docket No.: STR.043.A1 Seagate Docket No.: STL071335.00US

COMBINED ASSIGNMENT AND DECLARATION

WHEREAS, Wenzhong Zhu of 13073 Elderberry Court, Apple Valley, MN 55124; Bruce D. Buch of 21 Old Nourse Street, Westborough, MA 01581; and Kenneth Haapala of 320 Merrimac Lane North, Plymouth, MN 55447, are the inventors of an invention entitled <u>APPARATUS AND METHOD FOR MEASURING SLIDER FLY HEIGHT</u>
<u>RELATIVE TO BIT PATTERNED MEDIA</u> that is the subject matter of: (check all that apply)

	a provisional application for Letters Patent which is identifiable in the United States Patent and Trademark Office
	by Application No filed on;
\boxtimes	an application for Letters Patent which is identifiable in the United States Patent and Trademark Office by
	Application No. 14/967,028 filed on January 4, 2016 and/or executed on even date herewith: and
	an international application for Letters Patent filed pursuant to the Patent Cooperation Treaty which is
	identiflable in the United States Receiving Office by Application Nofiled on
	; and/or executed on even date herewith:

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 10200 S. De Anza Blvd, Cuperlino, CA 95014 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 transfer to Assignee, its successors and assigns, my 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 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 authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and application numbers when ascertained. I 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 represent to the Assignee, its successors and assigns, that I have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I, my 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.

The above-identified application was made or authorized to be made by me, I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filling date of the prior application and the national or PCT international filling date of the continuation-in-part application.

U.S. Assignment - Seagate Technology LLC - Confidential

Rev: 10/18/2012

Attorney Docket No.: STR.043.A1 Seagate Docket No.: STL071335.00US

	Comment of the commen
	Wenzhong Zhu (Inventor)
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	Bruce D. Buch (Inventor)
	Date
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Attorney Docket No.: STR.043.A1 Seagate Docket No.: STL071335.00US

COMBINED ASSIGNMENT AND DECLARATION

A A S	richting, werzhong zha di rouro bigerberry Couri, Appie Valley, MN 55124; Bruce D. Buch of 21 C	ia Nourse:
Stre	eet, Westborough, MA 01581; and Kenneth Haapala of 320 Merrimac Lane North, Plymouth, MN 554	47, are the
inve	entors of an invention entitled APPARATUS AND METHOD FOR MEASURING SLIDER FLY HEIGH	r
RE	LATIVE TO BIT PATTERNED MEDIA that is the subject matter of: (check all that apply)	_
L	a provisional application for Letters Patent which is identifiable in the United States Patent and Trade	mark Office
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	identifiable in the United States Receiving Office by Application Nofiled or	1
	and/or executed on even date herewith:	

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 10200 S. De Anza Blvd, Cupertino, CA 95014 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 transfer to Assignee, its successors and assigns, my 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 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 authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and application numbers when ascertained. I 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 represent to the Assignee, its successors and assigns, that I have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I, my 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.

The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. I hereby state that I have reviewed and understand the contents of the above identified application, including the claims, as amended by any amendment specifically referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

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Rev: 10/18/2012

Attorney Docket No.: STR.043 A1 Seagate Docket No.: STL071335.00US

	Wenzhong Zhu (Inventor)
	Date
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	Run D. But
	Bruce D. Buch (Inventor)
	5-JAN-2016
	Date
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	Kenneth Haapala (Inventor)
	Date

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RECORDED: 01/21/2016

Rev: 10/18/2012