503787715 04/18/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LIHONG ZHANG	04/04/2016
XIONG LIU	04/04/2016
SAMUEL GAN	04/07/2016

RECEIVING PARTY DATA

Name:	Seagate Technology LLC	
Street Address:	et Address: 10200 South DeAnza Boulevard	
City:	Cupertino	
State/Country:	tate/Country: CALIFORNIA	
Postal Code: 95014		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15085559

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	STR.046.A1
NAME OF SUBMITTER:	MARK A. HOLLINGSWORTH
SIGNATURE:	/Mark A. Hollingsworth/
DATE SIGNED:	04/18/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 2

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> **PATENT REEL: 038306 FRAME: 0328** 503787715

Attorney Docket No.: STR.046.A1 Seagate Docket No.: STL071466.00US

COMBINED ASSIGNMENT AND DECLARATION

8u 573	WHEREAS, Lihong Zhang of Blk 372, Clementi Avenue 4, #10-276, Singapore 120372; Xiong Liu of BukitTimah Road, #05-34, Singapore 589645; and Samuel Gan of Blk 2, Bishan Street 25, #23-07, 573973, are the inventors of an invention entitled <u>THERMAL ASPERITY DETECTION APPARATU</u> that is the subject matter of: (check all that apply)	Singapore			
a provisional application for Letters Patent which is identifiable in the United States Patent and Trademark					
	by Application No;				
\boxtimes	an application for Letters Patent which is identifiable in the United States Patent and Trademark Office by				
	Application No. 15/085,559 filed on March 30, 2016 and/or executed on even date herewith: an				
	an international application for Letters Patent filed pursuant to the Patent Cooperation Treaty when				
	Identifiable in the United States Receiving Office by Application Nofil				
	; and/or executed on even date herewith:				
WE	MHEREAS, Seagate Technology LLC, a limited liability company organized and existing under the	aws of the State			
	of Delaware and the United States of America, and having offices at 10200 S. De Anza Blvd. Cuper				

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 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.046.A1 Seagate Docket No.: STL071466.00U
	Whong Zhung Lihong Zhang (Inventor)
	0 4 April 2016.
**************************************	Liazi,
* **	Xiong Liu (Inventor) \ \(\frac{1}{20/6} \) Date
**************************************	**************************************
	Samuel Gan (Inventor) O7 Apr 20/6
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Rev: 10/18/2012

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