## PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
Dongming Liu	02/02/2011
Lin Zhou	02/02/2011
Adam K. Himes	02/15/2011
Lee C. Knippenberg	02/02/2011
Michael T. Johnson	02/02/2011

#### **RECEIVING PARTY DATA**

Name:	Seagate Technology LLC	
Street Address: 920 Disc Drive		
City:	Scotts Valley	
State/Country: CALIFORNIA		
Postal Code:	95066	

## PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13036184

## **CORRESPONDENCE DATA**

Fax Number: (612)334-3312

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ATTORNEY DOCKET NUMBER:	S01.12-1400/STL 16027 LTF
NAME OF SUBMITTER:	Theresa R. Sorbel

**PATENT** REEL: 025871 FRAME: 0046

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Total Attachments: 4

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PATENT REEL: 025871 FRAME: 0047

## **ASSIGNMENT**

Attorney Docket No.: S01.12-1400 Seagate Docket No.: STL 16027

WHEREAS, We, Dongming Liu of 17946 Strawberry Ct, Eden Prairie, Minnesota, 55347, USA; Lin Zhou of 4623 Weston Hill Drive, Eagan, Minnesota, 55123, USA; Adam K. Himes of 11705 38<sup>th</sup> Avenue North, Minneapolis, MN 55441; Lee C. Knippenberg of 13104 Lakeview Drive, Burnsville, MN 55337 and Michael T. Johnson of 4841 Drew Avenue South, Minneapolis, MN 55410, are the inventor(s) of an invention entitled <u>CONTACT DETECTION</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 Offic
	by Application No filed on;
$\boxtimes$	an application for Letters Patent which is identifiable in the United States Patent and Trademark Office b
	Application No. $13/036,184$ filed on February 28, 2011, and/or executed on even date herewith: and
	an international application for Letters Patent filed pursuant to the Patent Cooperation Treaty which is
	dentifiable in the United States Receiving Office by Application No filed 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 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, we transfer to Assignee, its successors and assigns, 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 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.

We authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and application numbers when ascertained. 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.

We represent to the Assignee, its successors and assigns, that we have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. We, 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.

Attorney Docket No. : \$01.12-1400 Seagate Docket No. : \$TL 16027

Bongming Liu (Inventor)

State of Minnesota (County of Herrica Pica )				
On February 2 <sup>nd</sup> , 2011 before me, <u>Diane M. Chapman</u> (insert name and little of the officer)				
personally appeared Congrica Liu (Inventor), who 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 person, or the entity upon behalf of which the person acted, executed the instrument.				
I certify under PENALTY OF PERJURY under the laws of the State ofa that the foregoing paragraph is true and correct.				
WITNESS my hand and official seal.				
Signature Signature of Notary Public (Seal)  Signature of Notary Public (Seal)				
Lin Zhou (Inventor)				
State of Minnesota (County of Henry Park )				
On February 2nd 2011 before me, Diane M. Chapman (insert name and title of the officer)				
personally appeared (Inventor), who 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 person, or the entity upon behalf of which the person acted, executed the instrument.				
I certify under PENALTY OF PERJURY under the laws of the State of No. 2 a that the foregoing paragraph is true and correct.				

-2 of 4-

- U.S. Assignment - Seagate Technology LLC

PATENT REEL: 025871 FRAME: 0049

Attorney Docket No. : S01.12-1400 Seagate Docket No. : STL 16027

Adam K. Himes (Inventor)

State of <u>Minnesota.</u> ) County of <u>Ramsey</u> )
On <u>February 15, 2011</u> before me, <u>Ar&amp;s Ann Za<i>ie</i> &amp;</u> (insert name and title of the officer)
personally appeared (Inventor), who 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 person, or the entity upon behalf of which the person acted, executed the instrument.
I certify under PENALTY OF PERJURY under the laws of the State of $\frac{\hat{N} + \hat{N}}{N}$ a that the foregoing paragraph is true and correct.
WITNESS my hand and official seal.
Signature (Seal)  Signature of Notary Public  Signature of Notary Public
Lee C. Knippenberg (Inventor)
State of <u>Minnesota</u> ) County of <u>Rennepin</u> ) On <u>Fubruary 2<sup>nd</sup>, 2011</u> before me, <u>lane M. Chapman</u> (insert name and title of the officer)
personally appeared
I certify under PENALTY OF PERJURY under the laws of the State ofa that the foregoing paragraph is true and correct.
WITNESS my hand and official seal.  DIANE M. CHAPMAN Notary Public Minnesota 13y Commission Expires Jan 31, 301

-3 of 4-

Signature of Notary Public

- U.S. Assignment - Seagate Technology LLC

PATENT REEL: 025871 FRAME: 0050

Attorney Docket No.: S01.12-1400 Seagate Docket No.: STL 16027

before me, <u>Diane Me Chapman</u> (insert name and title of the officer)

noznást personally appeared (Inventor), who 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 person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of \_\_\_\_\_\_a that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

DIANE M. CHAPMAN Notary Public Minnesota My Commission Express Jan. 31, 2018

RECORDED: 02/28/2011