PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Haiwen Xi	09/30/2008
Xuefei Michael Tang	09/30/2008
Yuankai Zheng	09/30/2008
Patrick Ryan	09/30/2008

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:	12242620

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	STL14500
NAME OF SUBMITTER:	Randall K McCarthy

Total Attachments: 2

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PATENT REEL: 021612 FRAME: 0286

ASSIGNMENT

Seagate Docket No. STL14500

WHEREAS, I/we, Haiwen Xi of 3019 Bobcat Trail N.W., Prior Lake, MN 55372, Xuefei (Michael) Tang of 7850 West 95th Street, Bloomington, MN 55438, Yuankai Zheng of 5220 West 102nd Street, Apt. 207, Bloomington, MN 55437, and Patrick Ryan of 1249 Scheffer Avenue, St. Paul, MN 55116 am/are the inventor(s) of an invention entitled SEMICONDUCTOR DEVICE WITH THERMALLY COUPLED PHASE CHANGE LAYERS 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
- an application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Application No. filed herewith; and
- 9 an international application for Letters Patent filed pursuant to the Patent Cooperation Treaty which is identifiable in the United States Receiving Office by Application No. and filed on ; 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 entire right, title and interest in and to the invention, the above-identified applications, all provisional applications for 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, reexamination, 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.

Haiwen Xi (Inventor)

Subscribed and sworn to before me at <u>bloom naton, MN</u>, a Notary Public, this <u>3</u>

(city or county and state)

(Seal)

My Commission Expires Jan. 31, 2011

Teresa Marie Gelds? Notary Public

Xuefei (Michael) Tang (Inventor)

Subscribed and sworn to before me at <u>Supply Addition</u>, a Notary Public, this day of (city or county and state) September, 2008 Notary Public TERESA MARIE FELDSTEIN **NOTARY PUBLIC** Yuankai Zheng (Inventor) Subscribed and sworn to before me at <u>Blooming for Mil</u>, a Notary Public, this <u>30 day of</u> (city or county and state) September, 20 08. Jeresa Marie Feld Ser TERESA MARIE FELDSTEIN (Seal) **NOTARY PUBLIC** Subscribed and sworn to before me at <u>Blumination</u>, a Notary Public, this <u>A</u>day of (city or county and state) September, 2008.

Teresa Marie Teldstein Notary Public

RECORDED: 09/30/2008