PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3047058

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
YI LIU	09/30/2014
AARON M. BOWSER	09/30/2014
DAN YU	09/30/2014
XIAOHONG ZHANG	09/30/2014

RECEIVING PARTY DATA

Name:	SEAGATE TECHNOLOGY LLC	
Street Address:	10200 S. DE ANZA BLVD.	
City:	CUPERTINO	
State/Country:	CALIFORNIA	
Postal Code:	95014	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14503589

CORRESPONDENCE DATA

Fax Number: (720)204-5669

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Address Line 2: **SUITE 1350**

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ATTORNEY DOCKET NUMBER:	STL 18490.00
NAME OF SUBMITTER:	SOLANGE REOCH
SIGNATURE:	/solange reoch/
DATE SIGNED:	10/01/2014
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 5

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PATENT REEL: 033861 FRAME: 0072 503000459

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> PATENT REEL: 033861 FRAME: 0073

COMBINED ASSIGNMENT - OATH

WHEDEAC VILLUA Eding MNI Agron M. Dougger of Ct. Doul MNI Don Vu of Chalcange MNI and Vicehong Thong

Seagate Docket No.: 18490.00

of E	•		ITER POLE FORMATION that is the subject
			the United States Patent and Trademark Office
-	by Application No	tilea on	
an application for Letters Patent which is identifiable in the United States Patent and Trade		d States Patent and Trademark Office by	
	Application No.	filed on	and/or executed on even date
	herewith: and		
		or Lattare Datant filed nursuant to the	e Patent Cooperation Treaty which is
	identifiable in the United Stat	es Receiving Office by Application N	No filed on
	; ar	nd/or executed on even date herewit	h:
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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.

State of Minisofa

County of Henrefix

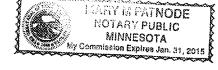
On Sept. 30 14 before me, Many M. Puture

(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 Minisofa that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature / Signature of Notary Public (Seal)

State of Minusofa

County of Lennepin

On Splenber 39 211 before me, (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 Minusofa that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

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MARY M PATNODE
NOTARY PUBLIC
MINNESOTA
Commission Expires Jan. 31, 2015

Signature

Signature of Notary Public

	Der
	Dan Yu (Inventor) 9/35/2014
State of Myrie Salk	Date /
On Spkn bev 30, 3014 before me,	Mary M. Patrode
personally appeared	(insert name and title of the officer) (Inventor), who proved to me on the
basis of satisfactory evidence to be the person who	se name is subscribed to the within instrument and acknowledged to me capacity, and that by his/her signature on the instrument the person, or
I certify under PENALTY OF PERJURY under the la paragraph is true and correct.	aws of the State of Williams of the foregoing
WITNESS my hand and official seal.	MARY M PATNODE NOTARY PUBLIC MINNESOTA My Commission Explose Jan. 31, 2015
Signature May Motor Signature of Notary Public	Seal)

before 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.

paragraph is true and correct.

WITNESS my hand and official seal.

MARY M PATNODE NOTARY PUBLIC MINNESOTA My Commission Expires Jan. 31, 2015

Signature

Rev: 10/18/2012

PATENT REEL: 033861 FRAME: 0078

RECORDED: 10/01/2014