PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2905348

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CAROLYN VAN DORN	05/29/2014
THOMAS BOONSTRA	05/29/2014
ERIC SINGLETON	06/02/2014
SHAUN MCKINLAY	05/29/2014

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14309012

CORRESPONDENCE DATA

Fax Number: (720)204-5669

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: 720-204-5666

Email:docket@holzeriplaw.comCorrespondent Name:HOLZERIPLAW, PCAddress Line 1:216 16TH STREET

Address Line 2: SUITE 1350

Address Line 4: DENVER, COLORADO 80202

ATTORNEY DOCKET NUMBER:	STL 16731.10
NAME OF SUBMITTER:	SHAWN MARKHAM
SIGNATURE:	/Shawn Markham/
DATE SIGNED:	06/19/2014

Total Attachments: 5

source=2014-06-19_Fully-Exe-Assign-Oath_16731-10#page1.tif source=2014-06-19_Fully-Exe-Assign-Oath_16731-10#page2.tif

PATENT 502858751 REEL: 033139 FRAME: 0172

source=2014-06-19_Fully-Exe-Assign-Oath_16731-10#page3.tif source=2014-06-19_Fully-Exe-Assign-Oath_16731-10#page4.tif source=2014-06-19_Fully-Exe-Assign-Oath_16731-10#page5.tif

> PATENT REEL: 033139 FRAME: 0173

COMBINED ASSIGNMENT - OATH

Seagate Docket No.:

16731.10

		Plain, MN is/are the inventor(s) of an invention	
<u>SEI</u>	NSOR WITH STOP-LAYE	<u>RS</u> that is the subject matter of: (check all tha	t apply)
		or Letters Patent which is identifiable in the U	
		filed on	
\boxtimes	an application for Letters	Patent which is identifiable in the United State	es Patent and Trademark Office by
	Application No.	filed on	and/or executed on even date
	herewith: and		
an international application for Letters Patent filed pursuant to the Pate			nt Cooperation Treaty which is
	identifiable in the United S	States Receiving Office by Application No; and/or executed on even date herewith:	

WHEREAS, Carolyn Van Dorn of Crystal, MN, Thomas Boonstra of Chaska, MN, Eric Singleton of Maple Plain, MN

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-inpart 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.

Rev: 10/18/2012

	CAROLYN VAN DORN (Inventor)	
8 s × 3	<u> 1/12y 27, 2014</u> Qata	
State of)	. ,	
County of HENNEPIN)		
On May 24, 2014 before me.	MEISA EICHEN, NOTAYA (insert name and title of the officer)	
	(insert name and title of the officer)	
personally appeared (AVO)40 V		
	whose name is subscribed to the within instrument and acknowledged to me rized capacity, and that by his/her signature on the instrument the person, or 1. executed the instrument.	
I certify under PENALTY OF PERJURY under the paragraph is true and correct.	i i	
paragraph is true and correct.		
WITNESS my hand and official seal.	Contraction of the state of the	
	MELISSA A EICHTEN (NOTARY PUBLIC - MINNESOTA (
many A. A. January	\$ ISS IN COMMISSION EXPRES 01/31/17 \$	
The second of th	The second secon	

THOMAS BOONSTRA (Inventor)

MAY 29, 2014

State of MINNESOTA)

County of HENNEPIN

On May 29, 2014 before me,

Mary M. Tatnode

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

WITNESS my hand and official seal.

Signature of Notary Public



ERIC SINGLETON (Inventor)

0-2-2014

or ND

County of HUMPA

_ before me, _

Uclissa Eizhen, Notary

(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.

__ that the foregoing

WITNESS my hand and official seal.

signature <u>VV EU & Ei W</u>KSè

Signature of Notary Public

SHAUN MCKINLAY (Inventor)

5-29-14

State of Minnesota

County of Henry

n <u>MAY 99, 3014</u> before me,

Mary M. Patrode

(insert name and title of the officer)

WITNESS my hand and official seal.

signature of Notary Public

MARY M PATNODE

NOTARY PUBLIC

MINNESOTA

My Commission Expires Jan. 31, 2015

(Seal)