

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2642314

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>MEHMET FATIH ERDEN</td> <td>12/03/2013</td> </tr> <tr> <td>SCOTT WARMKA</td> <td>12/03/2013</td> </tr> <tr> <td>BARMESHWAR VIKRAMADITYA</td> <td>12/04/2013</td> </tr> <tr> <td>RALPH WILLIAM CROSS</td> <td>12/04/2013</td> </tr> </tbody> </table>		Name	Execution Date	MEHMET FATIH ERDEN	12/03/2013	SCOTT WARMKA	12/03/2013	BARMESHWAR VIKRAMADITYA	12/04/2013	RALPH WILLIAM CROSS	12/04/2013
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MEHMET FATIH ERDEN	12/03/2013										
SCOTT WARMKA	12/03/2013										
BARMESHWAR VIKRAMADITYA	12/04/2013										
RALPH WILLIAM CROSS	12/04/2013										
RECEIVING PARTY DATA											
Name:	Seagate Technology LLC										
Street Address:	10200 South DeAnza Boulevard										
City:	Cupertino										
State/Country:	CALIFORNIA										
Postal Code:	95014										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14100527</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14100527						
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Application Number:	14100527										
CORRESPONDENCE DATA											
Fax Number:	(952)854-2722										
Phone:	952-854-2700										
Email:	tdotter@hdpatlaw.com										
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>											
Correspondent Name:	HOLLINGSWORTH DAVIS										
Address Line 1:	8500 NORMANDALE LAKE BLVD.										
Address Line 2:	SUITE 320										
Address Line 4:	MINNEAPOLIS, MINNESOTA 55437										
ATTORNEY DOCKET NUMBER:	STX.116.A1										
NAME OF SUBMITTER:	REBECCA F. DAVIS										

Signature:	/Rebecca F. Davis/
Date:	12/09/2013
	This document serves as an Oath/Declaration (37 CFR 1.63).
<b>Total Attachments: 6</b> source=DEC-STX116A1#page1.tif source=DEC-STX116A1#page2.tif source=DEC-STX116A1#page3.tif source=DEC-STX116A1#page4.tif source=DEC-STX116A1#page5.tif source=DEC-STX116A1#page6.tif	

## COMBINED DECLARATION AND ASSIGNMENT

WHEREAS, Mehmet Fatih Erden of 3709 Grand Way, Apt 317, St. Louis Park, MN 55416; Scott Warmka of 616 Chicago Drive, Burnsville, MN 55306; Barmeshwar Vikramaditya of 9012 Belvedere Drive, Eden Prairie, MN 55347; and Ralph William Cross of 730 Estes Park Estates Drive, Lyons, CO 80540, are the inventors of an invention entitled DESIGN REQUIREMENT RELAXATION FOR MULTIPLE READERS IN PRESENCE OF LARGE SKEW ANGLE RANGE 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 on \_\_\_\_\_;
- an application for Letters Patent which is identifiable in the United States 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 Patent Cooperation Treaty which is identifiable 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 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.

Mehmet Fatih Erden (Inventor)

December 3, 2013  
Date

State of Minnesota)

County of Scott

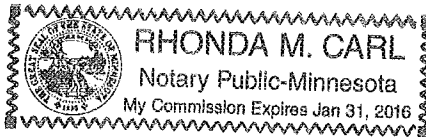
On 12-3-13 before me, Rhonda Carl  
(insert name and title of the officer)

personally appeared Mehmet Fatih Erden (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 Minnesota that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Rhonda Carl (Seal)  
Signature of Notary Public



\*\*\*\*\*

Scott Warmka (Inventor)

12/3/13  
Date

State of Minnesota)

County of Scott

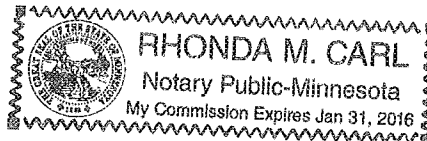
On 12-3-13 before me, Rhonda Carl  
(insert name and title of the officer)

personally appeared Scott Warmka (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 Minnesota that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Rhonda Carl (Seal)  
Signature of Notary Public



\*\*\*\*\*

Barmeshwar Vikramaditya (Inventor)

12/4/2013  
Date

State of Minnesota)

County of Hennepin)

On Dec 4, 2013 before me, Melissa Eichten, Notary  
(insert name and title of the officer)

personally appeared Barmeshwar Vikramaditya (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 Minnesota that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Melissa Eichten (Seal)  
Signature of Notary Public



\*\*\*\*\*

Ralph William Cross (Inventor)

\_\_\_\_\_  
Date

State of Colorado)

County of \_\_\_\_\_)

On \_\_\_\_\_ before me, \_\_\_\_\_  
(insert name and title of the officer)

personally appeared Ralph William Cross (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.

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Signature \_\_\_\_\_ (Seal)  
Signature of Notary Public

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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.

Mehmet Fatih Erden (Inventor)

\_\_\_\_\_  
Date

State of Minnesota)

County of \_\_\_\_\_)

On \_\_\_\_\_ before me, \_\_\_\_\_  
(insert name and title of the officer)

personally appeared Mehmet Fatih Erden (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 Minnesota that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature \_\_\_\_\_ (Seal)  
Signature of Notary Public

\*\*\*\*\*

Scott Warmka (Inventor)

\_\_\_\_\_  
Date

State of Minnesota)

County of \_\_\_\_\_)

On \_\_\_\_\_ before me, \_\_\_\_\_  
(insert name and title of the officer)

personally appeared Scott Warmka (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.

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WITNESS my hand and official seal.

Signature \_\_\_\_\_ (Seal)  
Signature of Notary Public

\*\*\*\*\*

Barmeshwar Vikramaditya (Inventor)

\_\_\_\_\_  
Date

State of Minnesota)

County of \_\_\_\_\_)

On \_\_\_\_\_ before me, \_\_\_\_\_  
(insert name and title of the officer)

personally appeared Barmeshwar Vikramaditya (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.

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WITNESS my hand and official seal.

Signature \_\_\_\_\_ (Seal)  
Signature of Notary Public

\*\*\*\*\*

*Ralph William Cross*

Ralph William Cross (Inventor)

*12/4/2013*

\_\_\_\_\_  
Date

State of Colorado)

County of *Boulder* \_\_\_\_\_)

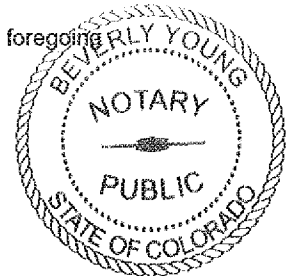
On *Dec. 4, 2013* before me, *Beverly Young*  
(insert name and title of the officer)

personally appeared Ralph William Cross (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 Colorado that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature *Beverly Young* \_\_\_\_\_ (Seal)  
Signature of Notary Public



\*\*\*\*\*