

PATENT ASSIGNMENT COVER SHEET

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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>FATIH ERDEN</td> <td>12/18/2013</td> </tr> <tr> <td>BARMESHWAR VIKRAMADITYA</td> <td>12/17/2013</td> </tr> <tr> <td>DEEPAK SRIDHARA</td> <td>12/18/2013</td> </tr> <tr> <td>WILLIAM RADICH</td> <td>12/18/2013</td> </tr> </tbody> </table>		Name	Execution Date	FATIH ERDEN	12/18/2013	BARMESHWAR VIKRAMADITYA	12/17/2013	DEEPAK SRIDHARA	12/18/2013	WILLIAM RADICH	12/18/2013
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<table border="1"> <tr> <td>Name:</td> <td>SEAGATE TECHNOLOGY LLC</td> </tr> <tr> <td>Street Address:</td> <td>10200 S. DE ANZA BLVD.</td> </tr> <tr> <td>City:</td> <td>CUPERTINO</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>95014</td> </tr> </table>		Name:	SEAGATE TECHNOLOGY LLC	Street Address:	10200 S. DE ANZA BLVD.	City:	CUPERTINO	State/Country:	CALIFORNIA	Postal Code:	95014
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Application Number:	14143856										
CORRESPONDENCE DATA											
Fax Number:	(770)434-7376										
Phone:	770-434-6868										
Email:	tjames@taylorenghish.com										
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>											
Correspondent Name:	W. RANDY KING										
Address Line 1:	1600 PARKWOOD CIRCLE, SUITE 400										
Address Line 4:	ATLANTA, GEORGIA 30339										
ATTORNEY DOCKET NUMBER:	191957-1090										
NAME OF SUBMITTER:	W. RANDY KING										
Signature:	/W. Randy King/										

OP \$40.00 14143856

Date:	12/31/2013
	This document serves as an Oath/Declaration (37 CFR 1.63).
<p>Total Attachments: 5 source=00403257#page1.tif source=00403257#page2.tif source=00403257#page3.tif source=00403257#page4.tif source=00403257#page5.tif</p>	

ASSIGNMENT

Seagate Docket No.: STL 17800 00 / 191957-1090

WHEREAS, Fatih Erden of 3709 Grand Way, Apt. 317, St. Louis Park, MN 55416; Barmeshwar Vikramaditya of 9012 Belvedere Drive, Eden Prairie, MN 55347; Deepak Sridhara of 1702 Tuscany Ct., Longmont, CO 80503; and William Radich of 1725 Stardance Cir., Longmont, CO 80504 are the inventors of an invention entitled MODULATION CODING FOR TWO-DIMENSIONAL RECORDING 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. 14/143,856 filed on Dec-30-2013 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.

Fatih Erden (Inventor)

December 18, 2013
Date

State of MINN)

County of Scott)

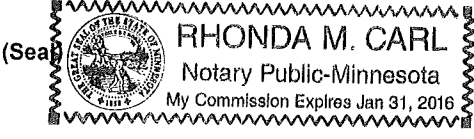
On 12-18-13 before me, Rhonda Carl
(insert name and title of the officer)

personally appeared 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 MINN that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Rhonda Carl



Barmeshwar Vikramaditya
Barmeshwar Vikramaditya (Inventor)

12/17/2013
Date

State of Minnesota

County of Hennepin

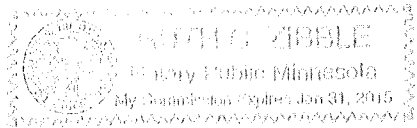
On Dec 17, 2013 before me, Ruth C. Zibbke, Notary
(insert name and title of the officer)

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 Ruth C. Zibbke (Seal)



Deepak Sridhara
Deepak Sridhara (Inventor)

12/18/2013
Date

State of California

County of Orange

On Dec 18, 13 before me, Ruby S. Bohra a notary
(insert name and title of the officer)

personally appeared Deepak Sridhara (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/it 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 California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Ruby Bohra (Seal)



William Radich

William Radich (Inventor)

12/18/2013
Date

State of Colorado
County of Boulder

On Dec. 18, 2013 before me, Beverly Young
(Insert name and title of the officer)

personally appeared William Radich (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)

