

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2587581

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>ZHENG WANG</td> <td>10/07/2013</td> </tr> <tr> <td>ARA PATAPOUTIAN</td> <td>10/18/2013</td> </tr> <tr> <td>RAMAN C. VENKATARAMANI</td> <td>10/07/2013</td> </tr> </tbody> </table>		Name	Execution Date	ZHENG WANG	10/07/2013	ARA PATAPOUTIAN	10/18/2013	RAMAN C. VENKATARAMANI	10/07/2013		
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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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CORRESPONDENCE DATA											
<p>Fax Number: (770)434-7376</p> <p>Phone: 770-434-6868</p> <p>Email: tjames@taylorenghish.com</p> <p><i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i></p> <p>Correspondent Name: W. RANDY KING</p> <p>Address Line 1: 1600 PARKWAY CIRCLE, SUITE 400</p> <p>Address Line 4: ATLANTA, GEORGIA 30339</p>											
ATTORNEY DOCKET NUMBER:	191957-1070										
NAME OF SUBMITTER:	W. RANDY KING										
Signature:	/W. Randy King/										
Date:	10/23/2013										

OP \$40.00 14045584

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 4

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ASSIGNMENT

Seagate Docket No.: STL 17933 00 / 191957-1070

WHEREAS, Zheng Wang of 389 Disc Drive, Longmont, CO 80525, Ara Patapoutian of 5 Lyford Road, Hopkinton, MA 01748, Raman C. Venkataramani of 5200 Clover Basin Drive, Longmont, CO 80503, and Gil I. Shamir of 1704 Shady Knoll Court, Sewickley, PA 15143 are the inventors of an invention entitled: UNIVERSAL MODULATION CODING FOR A DATA CHANNEL 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. 14/045,584 filed on October 3, 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.

[Handwritten Signature]

Zheng Wang (*Inventor*)

10/7/13
Date

State of Colorado

County of Boulder

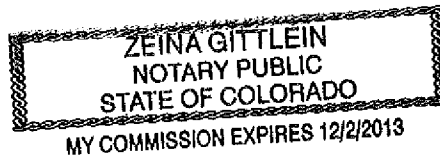
On October 7, 2013 before me, Zeina Gittlein, Notary Public
(insert name and title of the officer)

personally appeared Zheng Wang (*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 *Zeina Gittlein* (Seal)
Signature of Notary Public



My Commission Expires: 12-2-2013

Ara Patapoutian
Ara Patapoutian (Inventor)
10/18/2013
Date

State of Massachusetts

County of Worcester

On 10-18-13

before me,

Carrie Golden, Notary Public
(Insert name and title of the officer)

personally appeared **Ara Patapoutian (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.

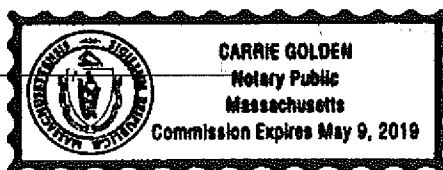
I certify under PENALTY OF PERJURY under the laws of the State of Massachusetts that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Carrie Golden
Signature of Notary Public (Seal)

My Commission Expires:



WRama
Raman C. Venkataramani (Inventor)

Oct 7, 2013
Date

State of Colorado

County of Boulder

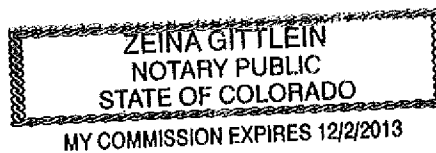
On October 7, 2013 before me, Zeina Gittlein, Paralegal
(insert name and title of the officer)

personally appeared **Raman C. Venkataramani (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 Zeina Gittlein (Seal)
Signature of Notary Public



My Commission Expires: 12-2-2013