

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Prafulla Bollampalli Reddy</td> <td>02/28/2012</td> </tr> <tr> <td>Hui Su</td> <td>02/28/2012</td> </tr> <tr> <td>Michelle Elaine Blankenship</td> <td>02/28/2012</td> </tr> <tr> <td>Eddie Wai Pun</td> <td>02/29/2012</td> </tr> <tr> <td>John Marc Wright</td> <td>02/27/2012</td> </tr> <tr> <td>Ara Patapoutian</td> <td>02/28/2012</td> </tr> <tr> <td>Hieu V Nguyen</td> <td>02/29/2012</td> </tr> </tbody> </table>		Name	Execution Date	Prafulla Bollampalli Reddy	02/28/2012	Hui Su	02/28/2012	Michelle Elaine Blankenship	02/28/2012	Eddie Wai Pun	02/29/2012	John Marc Wright	02/27/2012	Ara Patapoutian	02/28/2012	Hieu V Nguyen	02/29/2012
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Ara Patapoutian	02/28/2012																
Hieu V Nguyen	02/29/2012																
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>13408849</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13408849												
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Application Number:	13408849																
CORRESPONDENCE DATA																	
Fax Number:	(720)204-5669																
Phone:	720-204-5666																
Email:	smarkham@holzeriplaw.com																
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>																	
Correspondent Name:	HolzerIPLaw, PC																
Address Line 1:	216 16th Street, Suite 1350																
Address Line 4:	Denver, COLORADO 80202																
ATTORNEY DOCKET NUMBER:	STL 16742																

OP \$40.00 13408849

NAME OF SUBMITTER:

Shawn Markham

Total Attachments: 11

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ASSIGNMENT

Seagate Docket No. :

16742

WHEREAS, I/we Prafulla Bollampalli Reddy of Longmont, CO, Hui Su of Longmont, CO, Michelle Elaine Blankenship of Lyons, CO, Eddie Wai Pun of South San Francisco, CA, John Marc Wright of Broomfield, CO, Ara Patapoutian of Hopkinton, MA and Hieu V. Nguyen of Superior, CO are the inventor(s) of an invention entitled READ CHANNEL THROUGHPUT MANAGEMENT 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. 13/428,849 filed on Feb. 29, 2012;
- 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/we transfer to Assignee, its successors and assigns, my/our 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/we 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/We authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and application numbers when ascertained. I/We 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/We represent to the Assignee, its successors and assigns, that I/we have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I/We, my/our 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.

PRAFULLA BOLLAMPALLI REDDY

Date

State of _____)

County of _____)

On _____ 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 _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ (Seal)
Signature of Notary Public

HUI SU

Date

State of _____)

County of _____)

On _____ 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 _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ (Seal)
Signature of Notary Public

MICHELLE ELAINE BLANKENSHIP

Date

State of _____)

County of _____)

On _____ 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 _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ (Seal)
Signature of Notary Public

Eddie Wai Pun
EDDIE WAI PUN
Date 2/29/2012

State of CA)

County of SAN MATEO)

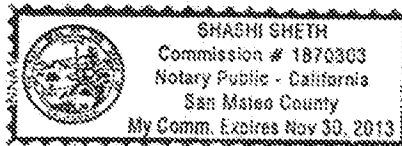
On 2/29/12 before me, Shashi Sheth, Notary
(insert name and title of the officer)

personally appeared EDDIE WAI PUN (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 CA that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Shashi Sheth (Seal)
Signature of Notary Public



JOHN MARC WRIGHT

Date

State of _____

County of _____

On _____ 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 _____ that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ (Seal)
Signature of Notary Public

Ara Patapoutian
ARA PATAPOUTIAN
Date 2/28/2012

State of Massachusetts
County of Worcester

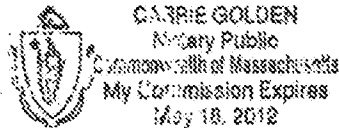
On 2-28-12 before me, Carrie Golden Notary Public
(insert name and title of the officer)

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* (Seal)
Signature of Notary Public



.....
HIEU V NGUYEN

.....
Date

State of _____)

County of _____)

On _____ 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 _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ (Seal)
Signature of Notary Public

ASSIGNMENT

Seagate Docket No. :

16742

WHEREAS, I/we Prafulla Bollampalli Reddy of Longmont, CO, Hui Su of Longmont, CO, Michelle Elaine Blankenship of Lyons, CO, Eddie Wai Pun of South San Francisco, CA, John Marc Wright of Broomfield, CO, Ara Palapoutian of Hopkinton, MA and Hieu V. Nguyen of Superior, CO are the inventor(s) of an invention entitled READ CHANNEL THROUGHPUT MANAGEMENT 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/we transfer to Assignee, its successors and assigns, my/our 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/we 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/We authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and application numbers when ascertained. I/We 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/We represent to the Assignee, its successors and assigns, that I/we have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I/We, my/our 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.

Prafulla B. Reddy
PRAFULLA BOLLAMPALLI REDDY
02/28/2012
Date

State of Colorado

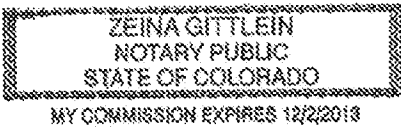
County of Boulder

On February 28, 2012 before me, Zeina Gittlein Paralegal
(insert name and title of the officer)

personally appeared Prafulla Bollampalli Reddy (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

Hui Su
Date 2/28/2012

State of Colorado

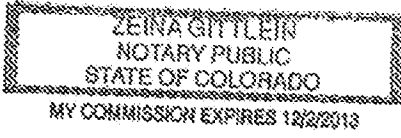
County of Boulder

On February 28, 2012 before me, Zeina Gittlein Paralegal
(insert name and title of the officer)

personally appeared Hui Su (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

Michelle Elaine Blankenship
MICHELLE ELAINE BLANKENSHIP

2/28/2012

Date

State of Colorado

County of Boulder

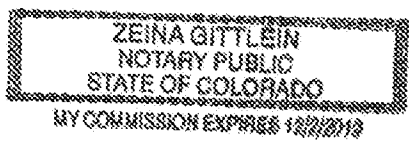
On February 28, 2012 before me, Zeina Gittlein, Paralegal
(insert name and title of the officer)

personally appeared Michelle Elaine Blankenship (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



.....
EDDIE WAI PUN

Date

State of _____

County of _____

On _____ 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 _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ (Seal)
Signature of Notary Public

John Marc Wright

JOHN MARC WRIGHT

2/27/2012

Date

State of Colorado

County of Boulder

On February 27, 2012 before me, Zeina Gittlein, Notary Public
(insert name and title of the officer)

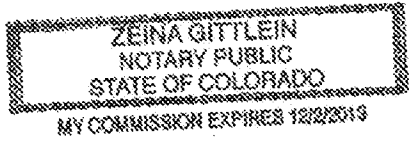
personally appeared John Marc Wright (inventor), who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument 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*
Signature of Notary Public

(Seal)



ARA PATAPOUTIAN

Date

State of _____

County of _____

On _____ 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 _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ (Seal)
Signature of Notary Public

JOHN MARC WRIGHT

Date

State of _____

County of _____

On _____ 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 _____ that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ (Seal)
Signature of Notary Public

Ara Patapoutian
ARA PATAPOUTIAN
Date 2/28/2012

State of Massachusetts

County of Worcester

On 2-28-12 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* (Seal)
Signature of Notary Public



CARRIE GOLDEN
Notary Public
Commonwealth of Massachusetts
My Commission Expires
May 18, 2012

Hieu V Nguyen
HIEU V NGUYEN
Date 2/29/2012

State of Colorado

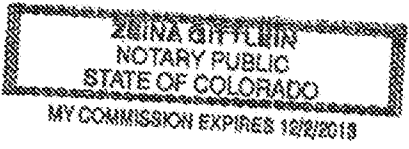
County of Boulder

On February 29, 2012 before me, Zeina Ghaffar-Pasalekas
(insert name and title of the officer)

personally appeared Hieu V Nguyen (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 Ghaffar-Pasalekas (Seal)
Signature of Notary Public