502588434 12/03/2013

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2634585

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HOUSAN DAKROUB	10/09/2013
CHRISTINE L GREEN	09/20/2013
EDWARD C GAGE	09/10/2013
TIM RAUSCH	09/10/2013

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

Property Type	Number
Application Number:	14028413

CORRESPONDENCE DATA

Fax Number:

Phone: 512-921-9069

Email: usptomail@cesari-reed.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful. Correspondent Name: CESARI & REED, LLP - SEAGATE TECHNOLOGY

Address Line 1: 1114 LOST CREEK BOULEVARD

Address Line 2: SUITE 430

Address Line 4: AUSTIN, TEXAS 78746

ATTORNEY DOCKET NUMBER:	1100-STL17872
NAME OF SUBMITTER:	KIRK A. CESARI

REEL: 031705 FRAME: 0422

PATENT

Signature:	/Kirk A. Cesari/	
Date:	12/03/2013	
	This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 15		
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PATENT REEL: 031705 FRAME: 0423

DECLARATION AND ASSIGNMENT

Seagate Docket No.: 1100-STL17872

Lar 198	EREAS, Housan Dakroub of 5712 Berwyn, Dearborn Heights, MI 48127, Christine L. Green of 7131 Oriole e. Longmont, CO 80503, Edward C. Gage of 5234 167th St West, Lakeville, MN 55044 and Tim Rausch of DO Cambridge Court, Farmington, MN 55024 is/are the inventor(s) of an invention entitled <u>HAMR CHANNEL TO EAMP INTERFACE</u> 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. <u>14028413</u> filed on <u>09-16-2013</u> ;
X	an application for Letters Patent which is identifiable in the United States Patent and Trademark Office by
K	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
Ш	dentifiable 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.

	Housan Dakroub (Inventor)
State of)	Date
County of	
On before me,	(insert name and title of the officer)
that he/she executed the same in his/her authorized on the entity upon behalf of which the person acted, exe	e name is subscribed to the within instrument and acknowledged to me capacity, and that by his/her signature on the instrument the person, or
paragraph is true and correct.	
WITNESS my hand and official seal.	
Signature(S	Seal)
Signature of Notary Public	•

Christine L. Green (Inventor)
20 sign del 0
Date '
State of (dlllarde))
County of Pould 1
On September 211 2013 Defore me Sens That Scholige / (insert name and title of the officer)
(Illisert hairie and title of the officer)
personally appeared (history (X. (Y) (Ln) (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 <u>Carlable</u> that the foregoing paragraph is true and correct.
WITNESS my hand and official seal.
VVITINESS THY Hand and Official Seas.
Signature Sean (Seal) Signature of Notary Public
Olghatare of Hotary Labito

ZEINA GITTLEIN
NOTARY PUBLIC
STATE OF COLORADO
MY COMMISSION EXPIRES 12/2/2013

		Edward C. Gage (Inventor)
State of)	Date
County of)	
On	before me,	(insert name and title of the officer)
that he/she executed the s the entity upon behalf of w	same in his/her authorized ca hich the person acted, exec DF PERJURY under the laws	(Inventor), who proved to me on the name is subscribed to the within instrument and acknowledged to me apacity, and that by his/her signature on the instrument the person, or uted the instrument. s of the State of that the foregoing
WiTNESS my hand and o	fficial seal.	
SignatureSignatu	(Se	eal)

		Tim Rausch (Inventor)
State of)	Date
County of)	
On	before me,	(insert name and title of the officer)
that he/she executed the the entity upon behalf of	same in his/her authorized on which the person acted, executed of PERJURY under the law	(Inventor), who proved to me on the name is subscribed to the within instrument and acknowledged to me capacity, and that by his/her signature on the instrument the person, or cuted the instrument. ### The state of
WITNESS my hand and	official seal.	
Signature Signatu	(Selection of Notary Public	eal)

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U.S. Assignment - Seagate Technology LLC - Confidential

DECLARATION AND ASSIGNMENT

Seagate Docket No.: 1100-STL17872

	REAS, Housan Dakroub of 5712 Berwyn, Dearborn Heights, MI 48127, Christine L. Green of 7131 Oriole	
	Longmont, CO 80503, Edward C. Gage of 5234 167th St West, Lakeville, MN 55044 and Tim Rausch of	
196	O Cambridge Court, Farmington, MN 55024 is/are the inventor(s) of an invention entitled HAMR CHANNEL	TO
	AMP INTERFACE that is the subject matter of: (check all that apply)	
_		
Ш	provisional application for Letters Patent which is identifiable in the United States Patent and Trademark Of	fice
	y Application No. <u>14028413</u> filed on <u>09-16-2013</u> ;	
\boxtimes	in 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	
	erewith: and	
П	in international application for Letters Patent filed pursuant to the Patent Cooperation Treaty which is	
_	dentifiable 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.

		Housan Dakroub (Inventor)
State of	<u></u>	Date
County of		
On	before me,	(insert name and title of the officer)
that he/she executed the the entity upon behalf of	same in his/her authorized ca which the person acted, exec OF PERJURY under the laws	(Inventor), who proved to me on the name is subscribed to the within instrument and acknowledged to me apacity, and that by his/her signature on the instrument the person, or uted the instrument. s of the State of that the foregoing
WITNESS my hand and o	official seal.	
SignatureSignatu	ure of Notary Public (Se	eal)

-2-

		Christine L.Green (Invent	or)
State of) .	Date	
County of			
	before me,		
		(insert name and title of the o	officer)
that he/she executed the the entity upon behalf of the	same in his/her authorized ca which the person acted, exec OF PERJURY under the law	name is subscribed to the within in apacity, and that by his/her signatu	(Inventor), who proved to me on the istrument and acknowledged to me re on the instrument the person, or that the foregoing
WITNESS my hand and o	official seal.		
SignatureSignatu	(Se	eal)	

Edward C. Gage (Inventor) 9/10/2010

State of MNU

County of Acatt

n = 9 - 10 - 13 before me,

(insert name and title of the officer)

personally appeared <u>Edward (Lagc</u> (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 of Notary Public (Seal)

RHONDA M. CARL
Notary Public-Minnesota
My Commission Expires Jan 31, 2016

Tim Rausch (Inventor)
Date

Date

County of Scutt

On 9-10-13 before me, Phinda Carl

) (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.

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WITNESS my hand and official seal.

Signature Alma Call (Seal)

RHONDA M. CARL
Notary Public-Mirinesota
My Commission Expires Jan 31, 2016

DECLARATION AND ASSIGNMENT

Seagate Docket No.: 1100-STL17872

	HEREAS, Housan Dakroub of 5712 Ben		• •	
Lan	ne,Longmont, CO 80503, Edward C. Ga	age of 5234 167th St Wes	st, Lakeville, MN 55044 and	Tim Rausch of
196	600 Cambridge Court, Farmington, MN	55024 is/are the inventor	(s) of an invention entitled H	IAMR CHANNEL TO
	REAMP INTERFACE that is the subject r			
1 (3,0	TET THE PROPERTY OF THE PROPER	Tratter or fortest an inac	, KK, AV	
	a provisional application for Letters Pa	itent which is identifiable i	n the United States Patent a	and Trademark Office
	by Application No. 14028413			
	an application for Letters Patent which			mark Office by
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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;

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	Howar Dake
	Housan Dakroub (Inventor) 10/9/20/3
2 1774	Date
State of <u>Michigan</u>)	
County of	
On <u>10-9-2013</u> before me,	Lydia Beydoun (insert name and title of the officer)
personally appeared <u>HOSSO</u> <u>N</u> basis of satisfactory evidence to be the person whose that he/she executed the same in his/her authorized of the entity upon behalf of which the person acted, exe	e name is subscribed to the within instrument and acknowledged to me capacity, and that by his/her signature on the instrument the person, or
I certify under PENALTY OF PERJURY under the lav paragraph is true and correct.	ws of the State of <u>Nichigo</u> that the foregoing
WITNESS my hand and official seal.	
Signature 110 Signature of Notary Public (S	COLA SECTION (COLA SECTION) Notary Police Michigan Notary Police Michigan

		Christine L.Green (In	ventor)
State of		Da	te
County of)·		
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that he/she executed the s the entity upon behalf of w	same in his/her authorized ca hich the person acted, exec DF PERJURY under the law	apacity, and that by his/her sig	(Inventor), who proved to me on the nin instrument and acknowledged to me nature on the instrument the person, or that the foregoing
WITNESS my hand and o	fficial seal.		
SignatureSignatur	(Se	eal)	

		Edward C. Gage (Inventor)	 :
State of) .	Date	
County of			
	before me,		
		(insert name and title of the officer)	
that he/she executed the the entity upon behalf of v	same in his/her authorized co which the person acted, exec OF PERJURY under the law	name is subscribed to the within instrument apacity, and that by his/her signature on the	instrument the person, or
WITNESS my hand and o	official seal.		
SignatureSignatu	re of Notary Public (Se	eal)	

		Tim Rausch (Inventor)	
State of	3.	Date	
•			
County of			
On	before me,	(insert name and title of the o	fficer)
that he/she executed the the entity upon behalf of	same in his/her authorized c which the person acted, exec OF PERJURY under the law	name is subscribed to the within in apacity, and that by his/her signatur	e on the instrument the person, or
WITNESS my hand and o	official seal.		
SignatureSignatu	re of Notary Public (Se	eal)	

-5-

U.S. Assignment - Seagate Technology LLC - Confidential

RECORDED: 12/03/2013