502358070 05/23/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Kaizhong Gao	03/12/2013
Eric Meloche	03/13/2013
Jianhua Xue	03/13/2013
Eric S. Linville	03/15/2013
Huaqing Yin	04/29/2013
Dehua Han	04/30/2013

RECEIVING PARTY DATA

Name:	Seagate Technology LLC	
Street Address:	10200 S. De Anza Blvd	
City:	Cupertino	
State/Country:	CALIFORNIA	
Postal Code:	95014	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13823672

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: \$01.12-1459

NAME OF SUBMITTER: Deirdre Megley Kvale

REEL: 030473 FRAME: 0431

PATENT

Signature:	/Deirdre Megley Kvale/	
Date:	05/23/2013	
Total Attachments: 11 source=2013-05-23_Executed-Assignment_STL-14487_20#page1.tif		
source=2013-05-23_Executed-Assignment_STL-14487_20#page2.tif source=2013-05-23_Executed-Assignment_STL-14487_20#page3.tif		
source=2013-05-23_Executed-Assignment_STL-14487_20#page4.tif source=2013-05-23_Executed-Assignment_STL-14487_20#page5.tif		
source=2013-05-23_Executed-Assignment_STL-14487_20#page6.tif source=2013-05-23_Executed-Assignment_STL-14487_20#page7.tif source=2013-05-23_Executed-Assignment-Dehua_STL-14487_20#page1.tif		
source=2013-05-23_Executed-Assignment-Dehua_STL-14487_20#page2.tif source=2013-05-23_Executed-Assignment-Dehua_STL-14487_20#page3.tif		
source=2013-05-23_Executed-Assignment-Dehua_STL-14487_20#page4.tif		

PATENT REEL: 030473 FRAME: 0432

Attorney Docket No.: S01.12-1459 Seagate Docket No.: STL 14487.20 North Oaks, MN. (K.G. WHEREAS, Kaizhong Gao of Eden Prairie, Minnesota, USA; Eric Meloche of Burnsville, Minnesota, USA; Jianhua Xue of Maple Grove, Minnesota, USA; Eric S. Linville of Shakopee, Minnesota, USA; Dehua Han of Lakeville. Minnesota, USA; and Huaging Yin of Eden Prairie, Minnesota, USA, is/are the inventor(s) of an invention entitled MAGNETIC RECORDING HEAD HAVING A POLE TIP SHIELD 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.

Rev: 10/18/2012

Attorney Docket No. :

S01.12-1459

Seagate Docket No.:

STL 14487.20

Kaizhōng Gao-(Inventor)

State of	Date			
County of <u>Hennepin</u>)				
On MARZA 12, 2013 before me,	Melissa Zarns, Notary			
	(insert name and title of the officer)			
personally appeared んんだんの	(insert name and title of the officer) (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.				
certify under PENALTY OF PERJURY under the liparagraph is true and correct.	aws of the State of that the foregoing			

WITNESS my hand and official seal.

Signature of Notary Public (Seal)

MELISSA ANN ZARNS
NOTARY PUBLIC - MINNESOTA
MY COMMISSION EXPIRES 01/31/17

Afterney Docket No. :

S01.12-1459

Seagate Docket No. :

STL 14487.20

Eric Meloche (Inventor)
tate of MN)
- Hannonin
n March 13, 2013 before me, Melissa Zavis, Notavi (insert name and title of the officer)
(insert name and title of the officer)
ersonally appeared
at he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or be entity upon behalf of which the person acted, executed the instrument.
certily under PENALTY OF PERJURY under the laws of the State of
/ITNESS my hand and official seal.

Attorney Docket No. :

S01.12-1459

Seagate Docket No. :

STL 14487.20

Jianhua Xue (Inventor) 3/13/20/3

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 VELSTA TOUR (Seat Signature of Notary Public

MELISSA ANN ZARNS NOTARY PUBLIC - MINNESOTA MY COMMISSION EXPIRES 01/01/17

Attorney Docket No. :

S01.12-1459

Seagate Docket No.:

STL 14487.20

	Eric S. Linville (Inventor)
0.8	
State of <u>Minnesof</u> w	
County of <u>Henney 15</u>	
On <u>Maxch 15,8013</u> before me, _	Rugh 2, Oble, Notary
· · · · · · · · · · · · · · · · · · ·	(insert name and title of the officer)

personally appeared <u>Fri S. Landalla</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.

WITNESS my hand and official seal.

Signature of Notary Public

BUTH C. ZIBBLE
Notary Public Alimnesons
Ny Commission Sephel Jan 31, 2015

Attorney Docket No. :

S01.12-1459

Seagate Docket No.:

STL 14487.20

	Dehua Han (Inventor)
	Date
State of	
County of)	
On before me,	
	(insert name and title of the officer)
personally appeared	(Inventor), who proved to me on the ame is subscribed to the within instrument and acknowledged to me pacity, and that by his/her signature on the instrument the person, or ted the instrument.
I certify under PENALTY OF PERJURY under the laws paragraph is true and correct.	of the State of that the foregoing
WITNESS my hand and official seal.	
Signature (Sea	nl)

Rev: 10/18/2012

Attorney Docket No.:

S01.12-1459

Seagate Docket No.:

STL 14487.20

Huaging Yin (Inventor)

Date

State of <u>Minnesofa</u>)

County of Hennepin

29.20/3 before me.

Kuth Zibble, whary (insert name and title of the officer)

personally appeared // /// // // // // // (Inventor), who proved to me on the basis of satisfactory evidences 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.

WITNESS my hand and official seal.

Signature Signature of Notary Public

Notary Public Minnesots

Ly Commission Suppose, Jan 31, 2015

Attorney Docket No. : S01.12-1459 Seagate Docket No. : STL 14487.20

WHEREAS, I/we, Kaizhong Gao of Eden Prairie, Minnesota, USA; Eric Meloche of Burnsville, Minnesota, USA; Jianhua Xue of Maple Grove, Minnesota, USA; Eric S. Linville of Shakopee, Minnesota, USA; Dehua Han of Lakeville, Minnesota, USA; and Huaqing Yin of Eden Prairie, Minnesota, USA, are the inventor(s) of an invention entitled Magnetic Recording Head Having a Pole Tip Shield 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;
	an application for Letters Patent which is identifiable in the United States Patent and Trademark Office by
	Application No. 13/823,672 filed on March 14, 2013 and/or executed on even date herewith: and
\boxtimes	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. PCT/US2010/048912 filed on
	September 15, 2010; and/or executed on even date herewith:
	September 15, 2010; and/or executed on even date nerewith:

WHEREAS, Seagate Technology LLC, a Delaware limited liability company and having offices at 10200 South DeAnza Boulevard, Cupertino, California, 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.

Attorney Docket No. : S01.12-1459 Seagate Docket No. : STL 14487.20

Signature of Inventor	Signature of Witness	
Date :	Date :	
Kaizhong Gao		
Printed Name of Inventor	Printed Name of Witness	
Residence of Inventor:	Residence of Witness:	
12350 Jasper Lane		
Eden Prairie, MN 55347		
Signature of Inventor	Signature of Witness	
Date :	Date :	
Eric Meloche		
Printed Name of Inventor	Printed Name of Witness	
Residence of Inventor:	Residence of Witness:	
1101 Holly Lane		
Burnsville, MN 55337		
Signature of Inventor	Signature of Witness	
Date:	Date :	
Jianhua Xue		
Printed Name of Inventor	Printed Name of Witness	
Residence of Inventor:	Residence of Witness:	
16941-66 th Place North		
Maple Grove, MN 55311		

Attorney Docket No.: S01.12-1459

Seagate Docket No. :

STL 14487.20

Signature of Inventor	Signature of Witness
Date :	Date :
Eric S. Linville	
Printed Name of Inventor	Printed Name of Witness
Residence of Inventor:	Residence of Witness:
735 Westchester Avenue	and and being a superior
Shakopee, MN 55379	
1-2-1	
Signature of Inventor Date: 5/3/2	Signature of Witness
Date: 5/3/2013	Date :
Dehua Han	
Printed Name of Inventor	Printed Name of Witness
Residence of Inventor:	Residence of Witness:
18200 Lansford Path	and the second s
Lakeville, MN 55044	Name of the state
	·
Signature of Inventor	Signature of Witness
Date :	Date :
Huaging Yin	
Printed Name of Inventor	Printed Name of Witness
Residence of Inventor:	Residence of Witness:
12600 Sandy Point Road	
Eden Prairie, MN 55347	

Rev. January 10, 2001

State of California County of AZAMEDA before me, MAKIO PIBEINO Here insert Name an personally appeared DEHUA HAN Name(s) of Signer(s) who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(iee), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. MARIO RIBEIRO Commission # 1856365 I certify under PENALTY OF PERJURY under the laws Notary Public - California Santa Clara County of the State of California that the foregoing paragraph is My Comm. Expires Jul 28, 2013 true and correct. WITNESS my hand and Afficial seal. Signature. Place Notary Seal Above Signature of Notary Public OPTIONAL . Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document. Description of Attached Document Title or Type of Document: 45516NMENT, SEAGNE DECKET NO: 572 14487.20 Number of Pages: Document Date: Signer(s) Other Than Named Above: Capacity(ies) Claimed by Signer(s) Signer's Name: _ Signer's Name:___ □ Individual ☐ Individual ☐ Corporate Officer — Title(s): _ ☐ Corporate Officer — Title(s): ___ □ Partner — □ Limited □ General ☐ Partner — ☐ Limited ☐ General ☐ Attorney in Fact ☐ Attorney in Fact Top of thumb here Top of thumb here ☐ Trustee Trustee Guardian or Conservator ☐ Guardian or Conservator Other: □ Other: Signer is Representing: Signer Is Representing:

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

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PATENT REEL: 030473 FRAME: 0443

RECORDED: 05/23/2013