

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>Chubing Peng</td> <td>05/07/2012</td> </tr> <tr> <td>Edward Charles Gage</td> <td>05/08/2012</td> </tr> <tr> <td>Ganping Ju</td> <td>05/24/2012</td> </tr> <tr> <td>Jan-Ulrich Thiele</td> <td>06/12/2012</td> </tr> <tr> <td>Kaizhong Gao</td> <td>04/25/2012</td> </tr> </tbody> </table>		Name	Execution Date	Chubing Peng	05/07/2012	Edward Charles Gage	05/08/2012	Ganping Ju	05/24/2012	Jan-Ulrich Thiele	06/12/2012	Kaizhong Gao	04/25/2012
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>Seagate Technology LLC</td> </tr> <tr> <td>Street Address:</td> <td>10200 South DeAnza Boulevard</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 South DeAnza Boulevard	City:	Cupertino	State/Country:	CALIFORNIA	Postal Code:	95014		
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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>13481207</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13481207								
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Application Number:	13481207												
CORRESPONDENCE DATA													
Fax Number: (952)854-2722 Phone: 952-854-2700 Email: tdotter@hdpattlaw.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: Hollingsworth Davis Address Line 1: 8500 Normandale Lake Blvd. Address Line 2: Suite 320 Address Line 4: Minneapolis, MINNESOTA 55437													
ATTORNEY DOCKET NUMBER:	STC.067.A1												
NAME OF SUBMITTER:	Clara Davis												

CH \$40.00 13481207

Total Attachments: 11

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ASSIGNMENT

WHEREAS, I/we Chubing Peng of 5101 Boarshead Road, #224, Minnetonka, MN 55345; Edward Charles Gage of 5234 167th Street West, Lakeville, MN 55044; Ganping Ju of 1122 Baur Court, Pleasanton, CA 94566; Jan-Ulrich Thiele of 776 Pear Avenue, Sunnyvale, CA 94087; and Kaizhong Gao of 1876 Bluestem Lane, Shoreview, MN 55126, are the inventor(s) of an invention entitled HEAT SINK LAYER 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. 13/481,207 filed on May 25, 2012 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 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.

Chubing Peng
Chubing Peng (Inventor)
May 07, 2012
Date

State of Minnesota
County of Hennepin

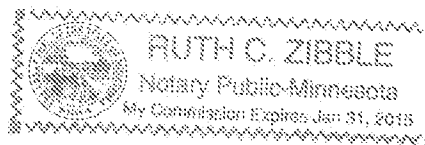
On May 7th, 2012 before me, Ruth Zibble, Notary
(insert name and title of the officer)

personally appeared Chubing Peng (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 Zibble (Seal)
Signature of Notary Public



Edward Charles Gage
Edward Charles Gage (Inventor)

May 8, 2012
Date

State of Minnesota
County of Dakota

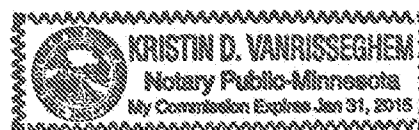
On May 8, 2012 before me, Kristin D. VanRisseghem, Notary
(insert name and title of the officer)

personally appeared Edward Charles Gage (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 Kristin D. VanRisseghem (Seal)
Signature of Notary Public



~~~~~  
\_\_\_\_\_  
Ganping A. Ju (Inventor)

\_\_\_\_\_  
Date

State of \_\_\_\_\_)

County of \_\_\_\_\_)

On \_\_\_\_\_ before me, \_\_\_\_\_  
(insert name and title of the officer)

personally appeared Ganping A. Ju (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

~~~~~  

Jan-Ulrich Thiele (Inventor)

Date

State of _____)

County of _____)

On _____ before me, _____
(insert name and title of the officer)

personally appeared Jan-Ulrich Thiele (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

Kaizhong Gao
Kaizhong Gao (Inventor)

04/25/12
Date

State of Minnesota

County of Hennepin

On April 25, 2012 before me, Kaizhong Gao Ruth Zibble
(insert name and title of the officer)

personally appeared Kaizhong Gao (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. Zibble (Seal)
Signature of Notary Public



ASSIGNMENT

WHEREAS, I/we Chubing Peng of 5101 Boarshead Road, #224, Minnetonka, MN 55345; Edward Charles Gage of 5234 167th Street West, Lakeville, MN 55044; Ganping Ju of 1122 Baur Court, Pleasanton, CA 94566; Jan-Ulrich Thiele of 776 Pear Avenue, Sunnyvale, CA 94087; and Kaizhong Gao of 1876 Bluestem Lane, Shoreview, MN 55126, are the inventor(s) of an invention entitled HEAT SINK LAYER that is the subject matter of: (check all that apply)

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- ☐ 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 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.

Chubing Peng (Inventor)

Date

State of _____)

County of _____)

On _____ before me, _____
(insert name and title of the officer)

personally appeared Chubing Peng (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

~~~~~

\_\_\_\_\_  
Edward Charles Gage (Inventor)

\_\_\_\_\_  
Date

State of \_\_\_\_\_)

County of \_\_\_\_\_)

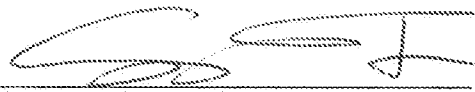
On \_\_\_\_\_ before me, \_\_\_\_\_  
(insert name and title of the officer)

personally appeared Edward Charles Gage (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 \_\_\_\_\_ (Seal)  
Signature of Notary Public

  
Ganping Ju (Inventor)

5/24/2012  
Date

State of CALIFORNIA

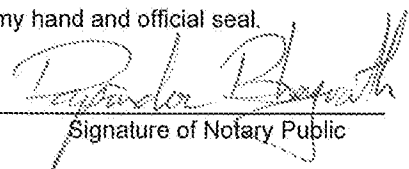
County of Alameda

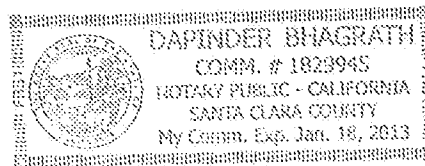
On May 24<sup>th</sup>, 2012 before me, DAPINDER BHAGRATH, Notary Public  
(insert name and title of the officer)

personally appeared Ganping Ju (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  (Seal)  
Signature of Notary Public



Jan-Ulrich Thiele (Inventor)

Date

State of \_\_\_\_\_

County of \_\_\_\_\_

On \_\_\_\_\_ before me, \_\_\_\_\_  
(insert name and title of the officer)

personally appeared Jan-Ulrich Thiele (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 \_\_\_\_\_ (Seal)  
Signature of Notary Public

~~~~~

Kaizhong Gao (Inventor)

Date

State of _____)

County of _____)

On _____ before me, _____
(insert name and title of the officer)

personally appeared Kaizhong Gao (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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Ganping A. Ju (Inventor)

Date

State of _____)

County of _____)

On _____ before me, _____
(insert name and title of the officer)

personally appeared Ganping A. Ju (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

Jan-Ulrich Thiele (Inventor)

Date

State of CALIFORNIA)

County of Alameda)

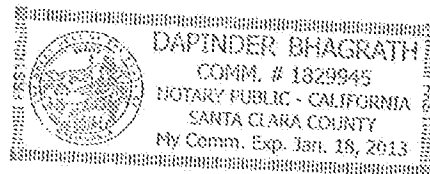
On June 12, 2012 before me, DAPINDER BHAGRATH, NOTARY PUBLIC
(insert name and title of the officer)

personally appeared Jan-Ulrich Thiele (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 CALIFORNIA that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Dapinder Bhagrath (Seal)
Signature of Notary Public



Kaizhong Gao (Inventor)

Date

State of _____)

County of _____)

On _____ before me, _____
(insert name and title of the officer)

personally appeared Kaizhong Gao (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