

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>Mark David Bedillion</td><td>12/17/2008</td></tr><tr><td>Narayanan Ramakrishnan</td><td>12/16/2008</td></tr><tr><td>Ju-il Lee</td><td>12/16/2008</td></tr></tbody></table>		Name	Execution Date	Mark David Bedillion	12/17/2008	Narayanan Ramakrishnan	12/16/2008	Ju-il Lee	12/16/2008		
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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>920 Disc Drive</td></tr><tr><td>City:</td><td>Scotts Valley</td></tr><tr><td>State/Country:</td><td>CALIFORNIA</td></tr><tr><td>Postal Code:</td><td>95066</td></tr></table>		Name:	Seagate Technology LLC	Street Address:	920 Disc Drive	City:	Scotts Valley	State/Country:	CALIFORNIA	Postal Code:	95066
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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>12338375</td></tr></tbody></table>		Property Type	Number	Application Number:	12338375						
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CORRESPONDENCE DATA											
Fax Number: (612)334-3312 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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ATTORNEY DOCKET NUMBER:	S01.12-1345										
NAME OF SUBMITTER:	Alan G. Rego										
Total Attachments: 4 source=2008-12-18 Assignment#page1.tif source=2008-12-18 Assignment#page2.tif											

OP \$40.00 12338375

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PATENT  
REEL: 022055 FRAME: 0867



## ASSIGNMENT

Attorney Docket No. : S01.12-1345

Seagate Docket No. : STL 14797.00

WHEREAS, I/we Narayanan Ramakrishnan of Pittsburgh, Pennsylvania, Ju-il Lee of Sewickley, Pennsylvania and Mark David Bedillion of Allison Park, Pennsylvania are the inventor(s) of an invention entitled WAVELETS-BASED DETECTION OF PROXIMITY BETWEEN A SENSOR AND AN OBJECT 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 Herewith 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 920 Disc Drive, Scotts Valley, California, 95066 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. : S01.12-1345  
Seagate Docket No. : STL 14797.00

Narayanan Ramakrishnan(Inventor)

Subscribed and sworn to before me at \_\_\_\_\_, a Notary Public, this \_\_\_\_ day  
of \_\_\_\_\_, 2008.

Notary Public

(SEAL)

Ju-il Lee(Inventor)

Subscribed and sworn to before me at \_\_\_\_\_, a Notary Public, this \_\_\_\_ day  
of \_\_\_\_\_, 2008.

Notary Public

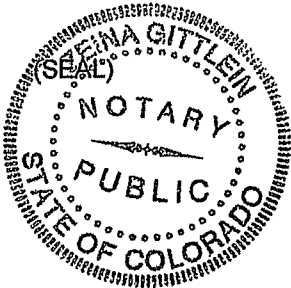
(SEAL)

Mark David Bedillion  
Mark David Bedillion(Inventor)

Subscribed and sworn to before me at Longmont, Colorado, a Notary Public, this 17<sup>th</sup> day  
of December 2008.

Zeina Gittlein  
Notary Public

Zeina Gittlein, Notary Public  
State of Colorado  
My Commission Expires 12/2/2009



**ASSIGNMENT**

Attorney Docket No. : S01.12-1345

Seagate Docket No. : STL 14797.00

WHEREAS, I/we Narayanan Ramakrishnan of Pittsburgh, Pennsylvania, Ju-il Lee of Sewickley, Pennsylvania and Mark David Bedillion of Allison Park, Pennsylvania are the inventor(s) of an invention entitled WAVELETS-BASED DETECTION OF PROXIMITY BETWEEN A SENSOR AND AN OBJECT 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 920 Disc Drive, Scotts Valley, California, 95066 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.

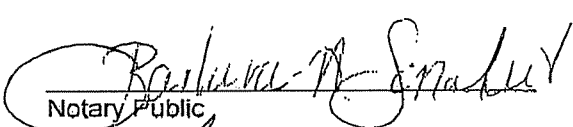
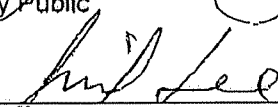
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Natarajan Ramakrishnan(Inventor)Subscribed and sworn to before me at Pattonville, PA, a Notary Public, this 16 day  
of December, 2008.

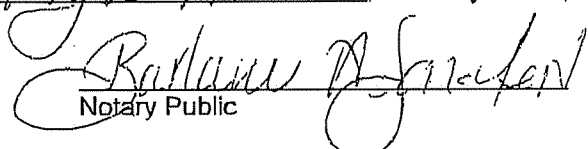
NOTARIAL SEAL  
BARBARA A SONAFELT  
Notary Public  
MCHIRTSVILLE BOROUGH  
ALLEGHENY COUNTY  
My Commission Expires Apr 25, 2009

(SEAL)

  
Notary Public  
Ju-Il Lee(Inventor)Subscribed and sworn to before me at Pattonville, PA, a Notary Public, this 16 day  
of December, 2008.

NOTARIAL SEAL  
BARBARA A SONAFELT  
Notary Public  
MCHIRTSVILLE BOROUGH  
ALLEGHENY COUNTY  
My Commission Expires Apr 25, 2009

(SEAL)

  
Notary Public\_\_\_\_\_  
Mark David Bedillion(Inventor)Subscribed and sworn to before me at \_\_\_\_\_, a Notary Public, this \_\_\_\_ day  
of \_\_\_\_\_, 2008.\_\_\_\_\_  
Notary Public

(SEAL)