

PATENT ASSIGNMENT

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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>Michael S. Lotito</td> <td>10/15/2012</td> </tr> <tr> <td>Stergios J. Papadakis</td> <td>10/31/2012</td> </tr> <tr> <td>Ned A. Brokloff</td> <td>10/15/2012</td> </tr> </tbody> </table>		Name	Execution Date	Michael S. Lotito	10/15/2012	Stergios J. Papadakis	10/31/2012	Ned A. Brokloff	10/15/2012		
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<table border="1"> <tr> <td>Name:</td> <td>The Johns Hopkins University</td> </tr> <tr> <td>Street Address:</td> <td>34th and Charles Street</td> </tr> <tr> <td>City:</td> <td>Baltimore</td> </tr> <tr> <td>State/Country:</td> <td>MARYLAND</td> </tr> <tr> <td>Postal Code:</td> <td>21218</td> </tr> </table>		Name:	The Johns Hopkins University	Street Address:	34th and Charles Street	City:	Baltimore	State/Country:	MARYLAND	Postal Code:	21218
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CORRESPONDENCE DATA											
<p>Fax Number: 2402285254 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 240-228-4386 Email: Kelly.Poulton@jhuapl.edu Correspondent Name: Noah J. Hayward Address Line 1: 11100 Johns Hopkins Road Address Line 2: M/S 7-151 Address Line 4: Laurel, MARYLAND 20723-6099</p>											
ATTORNEY DOCKET NUMBER:	3142-6606										
NAME OF SUBMITTER:	Noah J. Hayward										
<p>Total Attachments: 3 source=3142-6606Assignment#page1.tif source=3142-6606Assignment#page2.tif source=3142-6606Assignment#page3.tif</p>											

CH \$40.00 13597984

ASSIGNMENT

WHEREAS, Michael S. Lotito, Stergios J. Papadakis, and Ned A. Brokloff, hereinafter referred to as the ASSIGNORS, have made an invention as described in a United States patent application no. 13/597,984, filed August 29, 2012 entitled:

Carbon Nanotube High Temperature Length Sensor

WHEREAS, The Johns Hopkins University, a corporation organized and existing under the laws of the State of Maryland and having its principal place of business at Baltimore, Maryland, hereinafter referred to as the ASSIGNEE, desires to acquire an interest therein;

NOW, THEREFORE, in consideration of their employment by ASSIGNEE, the ASSIGNORS do hereby sell, assign and transfer to the ASSIGNEE the entire right, title and interest in and to said invention in the United States and its territories and possessions and in all foreign countries and the entire right, title and interest in and to said international application and any substitutions, divisions, continuations, or continuations-in-part based upon said application, and in and to any and all Letters Patent, whether original or reissue, which may be granted for said invention in the United States and its territories and possessions and in any and all foreign countries, the invention, said patent application, and any and all such patents to be held and enjoyed by the ASSIGNEE for its own use and benefit and for its legal representatives as fully and entirely as the same would have been held by the ASSIGNORS had this agreement not been made.

THE ASSIGNORS here further agree to make, execute, and deliver to the ASSIGNEE, its successors, assigns, and legal representatives, upon request but at the expense of the ASSIGNEE, any and all papers, documents, affidavits, statements, or other instruments that may be necessary in the prosecution of the aforesaid application, and of any United States or foreign applications, and of any substitutions, divisions, continuations, or continuations-in-part of said application, or applications for reissues of said Letters Patents, and to aid the ASSIGNEE, its successors, assigns, and legal representatives in every way in protecting the said invention as may be requested, provided, however that they shall not have to pay any expenses arising from extending such assistance.

THE ASSIGNORS hereby covenant that they have the right to grant the foregoing assignment.

[Signature] 15 Oct 12 DATE
Michael S. Lotito

STATE OF MARYLAND)
COUNTY OF Anne Arundel)

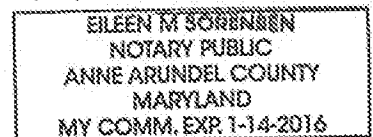
On this 15th day of October, 2012, before me, the undersigned officer, personally appeared the above-named Michael S. Lotito, known to me or satisfactorily proven to be the person whose name is subscribed to within the instrument and acknowledged that he executed the same for the purpose therein contained.

In witness hereof I hereunto set my hand and official seal.

[Signature]
Signature

EILEEN M. SORENSEN
Printed Name

Notary Public
My Commission expires 1-14-2016



[Signature] 10/11/12 DATE
Stergios J. Papadakis

STATE OF MARYLAND)
COUNTY OF Anne Arundel)

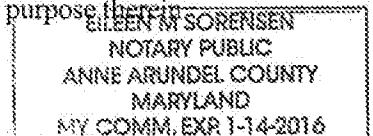
On this 31st day of October, 2012, before me, the undersigned officer, personally appeared the above-named Stergios J. Papadakis, known to me or satisfactorily proven to be the person whose name is subscribed to within the instrument and acknowledged that he executed the same for the purpose therein contained.

In witness hereof I hereunto set my hand and official seal.

[Signature]
Signature

EILEEN M. SORENSEN
Printed Name

Notary Public
My Commission expires 1-14-2016



Ned A. Brokloff 15 Oct 2012 DATE
Ned A. Brokloff

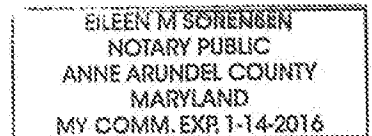
STATE OF MARYLAND
COUNTY OF Anne Arundel)

On this 15th day of October, 2012, before me, the undersigned officer, personally appeared the above-named Ned A. Brokloff, known to me or satisfactorily proven to be the person whose name is subscribed to within the instrument and acknowledged that he executed the same for the purpose therein contained.

In witness hereof I hereunto set my hand and official seal.

Eileen M. Sorensen
Signature

EILEEN M. SORENSEN
Printed Name



Notary Public
My Commission expires 1-14-2016