

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT2840746

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the ASSIGNEE'S ADDRESS previously recorded on Reel 031482 Frame 0782. Assignor(s) hereby confirms the CORRECT ADDRESS FOR ASSIGNEE IS 3400 N. CHARLES STREET, BALTIMORE, MD 21218.
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JAMES R. NEILSON	10/17/2013
TYREL M. MCQUEEN	10/18/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE JOHNS HOPKINS UNIVERSITY
<b>Street Address:</b>	3400 N. CHARLES STREET
<b>City:</b>	BALTIMORE
<b>State/Country:</b>	MARYLAND
<b>Postal Code:</b>	21218
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14063903
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(703)997-4905
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	7039170000
<b>Email:</b>	doreen@mh2law.com
<b>Correspondent Name:</b>	MH2 TECHNOLOGY LAW GROUP, LLP (JHTT)
<b>Address Line 1:</b>	1951 KIDWELL DRIVE
<b>Address Line 2:</b>	SUITE 550
<b>Address Line 4:</b>	TYSONS CORNER, VIRGINIA 22182
<b>ATTORNEY DOCKET NUMBER:</b>	0184.0001
<b>NAME OF SUBMITTER:</b>	TIMOTHY M. HSIEH
<b>SIGNATURE:</b>	/Timothy M. Hsieh/
<b>DATE SIGNED:</b>	05/02/2014
<b>Total Attachments: 4</b>	
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# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JAMES R NEILSON	10/17/2013
TYREL M MCQUEEN	10/18/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	THE JOHNS HOPKINS UNIVERSITY
<b>Street Address:</b>	<del>400 N. CHARLES STREET</del> 3400 N. Charles Street
<b>Internal Address:</b>	5TH FLOOR
<b>City:</b>	BALTIMORE
<b>State/Country:</b>	MARYLAND
<b>Postal Code:</b>	<del>21201</del> 21218
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14063903
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(703)997-4905
<b>Phone:</b>	703-917-0000
<b>Email:</b>	KRIS@mh2law.com
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>	
<b>Correspondent Name:</b>	MH2 TECHNOLOGY LAW GROUP LLP (JHTT)
<b>Address Line 1:</b>	1951 KIDWELL DRIVE
<b>Address Line 2:</b>	SUITE 550
<b>Address Line 4:</b>	TYSONS CORNER, VIRGINIA 22182
<b>ATTORNEY DOCKET NUMBER:</b>	0184.0001
<b>NAME OF SUBMITTER:</b>	TIMOTHY M. HSIEH
<b>Signature:</b>	/Timothy M. Hsieh/

DMS  
5/2/14

Date:	10/25/2013
Total Attachments: 2 source=2013-10-25__ASSIGNMENT#page1.tif source=2013-10-25__ASSIGNMENT#page2.tif	
RECEIPT INFORMATION	
EPAS ID:	PAT2592261
Receipt Date:	10/25/2013
Fee Amount:	\$40

## ASSIGNMENT

WHEREAS, WE, James R. Neilson and Tyrel M. McQueen have invented certain new and useful improvements in and to the subject matter of:

### MAGNETOCALORIC MATERIALS FOR CRYOGENIC LIQUIFICATION

described in an application for United States Letters Patent being executed simultaneously herewith;

3400  
AND, WHEREAS, The Johns Hopkins University, having a place of business located at 100 N. Charles Street, 3<sup>rd</sup> Floor, Baltimore, Maryland 21201 (hereinafter "ASSIGNEE"), is desirous of acquiring certain rights to the improvements and under the application; 21210 DMS 5/2/14

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration, receipt of which is hereby acknowledged, we do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto in and to said improvements, said United States application, any other United States applications, including provisional, divisional, renewal, substitute, continuation, reexamination and reissue applications, based in whole or in part on said United States application or in whole or in part on said improvements, any foreign applications, including international and regional applications, including the right to file applications and obtain patents under the terms of the International Convention of Paris (1883) as amended, and of the European Patent Convention, based in whole or in part on any of the aforesaid United States applications or in whole or in part on said improvements, and in and to any and all letters patent, including extensions thereof, of any country which have been or may be granted on any of the aforesaid applications or on said improvements or any parts thereof;


AND WE hereby authorize and request our agents, MH2 Technology Law Group LLP, whose address is 1951 Kidwell Drive, Suite 550, Tysons Corner, VA 22182, to insert hereon any identification necessary or desirable for recordation of this document, including the filing date and application number of said application when known.

AND WE hereby agree for ourselves and our heirs, executors and administrators to execute without further consideration any further documents and instruments which may be necessary, lawful and proper in the prosecution of said above-referenced application or in the preparation or prosecution of any continuing, substitute, divisional, renewal, reexamination or reissue application or in any amendments, extensions or interference proceedings, or other applications for patents of any region or country, that may be necessary to secure to ASSIGNEE its interest and title in and to said improvements or any parts thereof, and in and to said several patents or any of them;

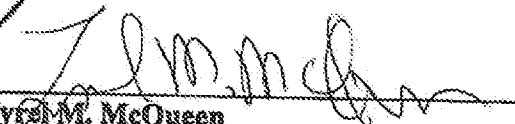
AND WE hereby covenant for ourselves and our legal representatives, and agree with said ASSIGNEE, its successors and assigns, that we have granted no right or license to make, use, sell or offer to sell said improvements, to anyone except said ASSIGNEE, that prior

to the execution of this deed, our right, title and interest in said improvements had not been otherwise encumbered, and that we have not and will not execute any instrument in conflict therewith;

AND WE do hereby authorize and request the Director of the United States Patent and Trademark Office to issue any and all letters patent which may be granted upon said United States applications, or upon said improvements or any parts thereof when granted, to said ASSIGNEE.

  
\_\_\_\_\_  
James R. Nelson

OCT. 17, 2013  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Tyrel M. McQueen

10/18/2013  
\_\_\_\_\_  
Date