

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	QINLI MA	01/20/2017
	YUFAN LI	01/20/2017
	CHIA-LING CHIEN	01/20/2017
RECEIVING PARTY DATA		
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City:	BALTIMORE	
State/Country:	MARYLAND	
Postal Code:	21218	
PROPERTY NUMBERS Total: 2		
Property Type	Number	
Application Number:	15411082	
Application Number:	62280900	
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NAME OF SUBMITTER:	BRYAN E. WILSON	
SIGNATURE:	/Bryan E. Wilson/	
DATE SIGNED:	01/20/2017	
Total Attachments: 2		
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ASSIGNMENT

WHEREAS, WE, **Qinli MA; Yufan LI; and Chia-ling CHIEN**, have invented certain new and useful improvements in and to the subject matter of:

HEAVY METAL MULTILAYERS FOR SWITCHING OF MAGNETIC UNIT VIA ELECTRICAL CURRENT WITHOUT MAGNETIC FIELD, METHOD AND APPLICATIONS

described in an application for a United States Provisional Application filed on **January 20, 2016** and accorded Provisional Application No. **62/280,900**; and for a United States Patent Application filed herewith;

AND, WHEREAS, **The Johns Hopkins University**, having a place of business located at **3400 N. Charles Street, Baltimore, Maryland 21218** (hereinafter "ASSIGNEE"), is desirous of acquiring certain rights to the improvements and under the application;

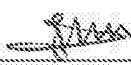
NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration, receipt of which is hereby acknowledged, we do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our entire right, 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;

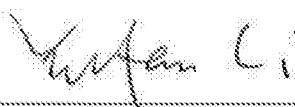
AND WE do hereby authorize and request the Director of the United States Patent and Trademark Office to issue any and all letters patent which may be granted upon said United States applications, or upon said improvements or any parts thereof when granted, to said ASSIGNEE.



Qinli Ma

1/20/2017

Date



Yufan Li

01/20/2017

Date



Chia-ling Chien

1/20/2017

Date