## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Zongxuan Sun	09/17/2018

### **RECEIVING PARTY DATA**

Name:	REGENTS OF THE UNIVERSITY OF MINNESOTA	
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### **PROPERTY NUMBERS Total: 2**

Property Type	Number
Application Number:	15607937
Application Number:	62346221

### **CORRESPONDENCE DATA**

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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NAME OF SUBMITTER:	ABBY REMER
SIGNATURE:	/Abby Remer/
DATE SIGNED:	11/12/2018

#### **Total Attachments: 3**

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PATENT 505185600 REEL: 047472 FRAME: 0694



# University of Minnesota ASSIGNMENT

WHEREAS, I, Zongxuan Sun, have invented certain new and useful improvements in CONTROL SIGNALS FOR FREE-PISTON ENGINES, for which applications for Letters Patents of the United States have been made, said applications being filed as follows: Provisional application no. 62/346,221 on June 6, 2016 and Utility application no. 15/607,937 on May 30, 2017 (the "Application(s)");

Whereas, REGENTS OF THE UNIVERSITY OF MINNESOTA ("Assignee"), having offices at 600 McNamara Alumni Center, 200 Oak Street SE, Minneapolis, Minnesota 55455-2020, is desirous of documenting the acquisition of the entire right, title and interest in and to said invention, said Application(s) and in, to and under any and all Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, and to the extent that I have not done so already via a prior agreement with the Assignee, or if I have already done so via a prior agreement with the Assignee then in confirmation of said prior agreement, I have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Assignee, its successors and assigns, the entire right, title and interest in and to the inventions set forth hereinabove and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefor on the Application(s) including my rights under the Paris Convention for the Protection of Industrial Property, and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Application(s) and Letters Patent that may be granted, including all rights to claim priority therefrom, and specifically including the right to enforce such Letters Patent in the name of Assignee and to recover damages for past infringement of the rights conveyed herein, the same to be held and enjoyed by Assignee for its own use and benefit and use and benefit of its successors and assigns to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.

I hereby authorize said Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent, in its own name if desired, in any and all foreign countries, and additionally to claim the filing date of any the Application(s) and/or otherwise take advantage of the provisions of the Paris Convention.

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Upon said consideration I do hereby covenant and agree with said Assignee, its successors and assigns, that I will not execute in writing or do any act whatsoever conflicting with these presents, and that I or my executors or administrators will at any time upon request, without further or additional consideration, but at the expense of said Assignee, its successors and assigns, execute such additional writings and do such additional acts as said Assignee, its successors and assigns, may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, reissues or extended Letters Patent of the United States, or of any and all foreign countries on said invention, and in enforcing any rights occurring as a result of such application or patents, by giving testimony in any proceedings or transactions involving such applications or patents.

I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Assignee in accordance with this instrument.

IN WITNESS WHEREOF, I have hereu	into set my hand on thisday of
September, 2018.	
	Zongxuán Sun
STATE OF Milme sota )	
COUNTY OF Hennepin )	
On this 17th day of Scoles	, 2018, before me personally appeared
Zongxuan Sun to me known to	be the person described in and who executed the
	ne executed the same as his/her free act and deed.

IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.

Realn. Delet Notary Public



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	F, I have hereunto set my hand on this 27 day of behalf of Assignee Regents of the University of Minnesota
	Paul B. Savereide Senior Associate General Counsel per Presidential Delegation DA_028016
STATE OF MINNESOTA COUNTY OF HENNEPIN	) ) )
	2018, before me personally appeared n to be the person described in and who executed the foregoing at he executed the same as his free act and deed.
IN WITNESS WHERECOME my office, the day and year above	OF, I have hereunto affixed my official signature with the seal of e written.
	Notary Public
	RESA M. GILATS  Notary Public-Minnesota  My Commission Expires Jist 31, 2021

Attorney Docket Number 09531-0375001 UM Case No. 20160384