# 507037941 12/21/2021 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7084778

UBMISSION TYPE:		NEW ASSIGNMENT			
ATURE OF CONVEYA	NCE:	ASSIGNMENT			
CONVEYING PARTY D	ΑΤΑ				
		Name	Execution Date		
NICOLE LEANNE KEY			04/01/2020		
/UJUN LENG			04/02/2020		
ANGYUAN LOU	03/27/2020				
NICHOLAS JOSEPH KO	< III	04/02/2020			
DOUG RYAN MATTHE	WS		04/07/2020		
RECEIVING PARTY DA	TA				
Name:	PURDL	JE RESEARCH FOUNDATION			
Street Address:	101 FO	101 FOUNDRY DRIVE, SUITE 2500			
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	INDIANA				
State/Country:	INDIAN	IA			
Postal Code:	47906	IA			
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#### ASSIGNMENT

#### WHEREAS, WE,

Name Nicole Leanne Key Yujun Leng Fangyuan Lou Nicholas Joseph Kormanik III Douglas Ryan Matthews

(hereinafter "ASSIGNORs"), have made or developed a technology identified in a disclosure to Purdue Research Foundation (PRF) and assigned:

PRF reference number: 2019-KEY-68629

generally known as:

# NON-INTRUSIVE TURBOMACHINERY BLADE VIBRATION DETECTION AND MONITORING SYSTEM USING CASING UNSTEADY PRESSURE SENSORS ARRAY

and which i	s further	describe	ed in a patent application filed in the Unite	d States Patent and
Trademark	Office	on	Apr 9, 2020	,and
accorded			(Filing Date to be inserted by a representative of ASSIGNEE	once known)
Application	No. 1	6/843,9	65	("Technology");
and	(A)	pplication S	erial No. to be inserted by a representative of ASSIGNEE one	e known

WHEREAS, Purdue Research Foundation, a statutory body corporate formed and existing under the Indiana Foundation or Holding Companies Act of 1921, having a place of business at *101 Foundry Drive West Lafayette*, *IN 47906* (hereinafter "ASSIGNEE"), is desirous of accepting and assuming all such right, title, and interests of the ASSIGNOR.

**NOW, THEREFORE**, for good and valuable consideration, receipt of which is hereby acknowledged, the ASSIGNOR(s) do hereby sell, transfer, convey, assign and deliver unto the ASSIGNEE, its successors, assigns and legal representatives, any and all intellectual property rights, whether domestic or foreign related to the Technology, including but not limited to: all portions, and works in progress with respect thereto and all inventions, works of authorship, masks works, technology, information, know-how, materials and tools relating thereto or to the development, support or maintenance thereof; all copyright, patent rights, trade secret rights, trademark rights, mask works rights, and all other intellectual property rights and all business, contract rights and goodwill in, incorporated or embodied in, used to develop, or related to any of the foregoing and any registrations and applications for registrations of the foregoing throughout the United States of America and the world and any and all other applications arising therefrom, including any and all divisional applications, continuation applications, and continuation-in-part applications (but only and solely to the extent such continuation-in-part applications are described in the priority application to which such continuation-in-part applications claim priority and such priority is not denied), of the Technology, and any and all patents to be issued and obtained therefor and thereon, in the United States and throughout the world, including all reissued Patents, and extensions thereof (collectively, the "Intellectual Property");

**AND** *WE* **HEREBY** agree to communicate to ASSIGNEE or its representative any facts known to us respecting the Technology whether or not patentable, which we may conceive, develop, make, produce or reduce to practice in whole or in part as a result of any employment, research, or activity involving or relating to the use of Purdue University resources; and agree to sign all lawful documents and make all rightful oaths and declarations relating to said Technology and Intellectual Property; authorize ASSIGNEE to insert herein the date of application, serial number, date of registration, and registration number of patents issued once known; and agree to otherwise aid ASSIGNEE as necessary and desirable to:

1. Obtain, enforce, and maintain any issued letters patent in the United States or throughout the world, when reasonably requested to do so by ASSIGNEE, including but not limited to executing, acknowledging, and delivering to ASSIGNEE such written documents and instruments as ASSIGNEE requests and giving testimony in support of ASSIGNEE's

inventorship, as may be necessary in ASSIGNEE's opinion to obtain and maintain patents in the United States of America and throughout the world;

2. Secure or aid in securing and maintaining copyright protection in the Intellectual Property and assist ASSIGNEE or its nominees in filing applications to register copyright in the name of ASSIGNEE as owner in such Intellectual Property; and

3. Execute, acknowledge, and deliver to ASSIGNEE at its expense, such written documents and instruments and do such other acts as may be necessary in the opinion of ASSIGNEE, to vest the entire rights, title, and interests in and to the Intellectual Property to ASSIGNEE and to confirm the complete ownership thereof by ASSIGNEE.

**AND** *WE* **HEREBY** authorize ASSIGNEE to take any and all action necessary to effectuate this Assignment, including but not limited to, the filing of the Assignment with the U.S. Patent and Trademark Office and U.S. Copyright Office.

**AND** *WE* **HEREBY** authorize and request the Director of the U.S. Patent and Trademark Office or any other proper officer or agency throughout the world to issue any and all said letters patent to ASSIGNEE.

**AND** *WE* **HEREBY** warrant and covenant that we have full rights to convey the entire right, title and interest herein assigned and that *we* have not executed and will not execute any instrument or assignment in conflict herewith;

This Assignment shall be binding upon ASSIGNOR(s) and their heirs, successors, and assigns. Should any term of this Assignment be found invalid or unenforceable, it shall not affect the validity or enforceability of any other term of this Assignment. The laws of the State of Indiana will govern the interpretation, validity, and effect of this Assignment, without regard to the place of making or to the place of performance.

This Assignment is hereby made effective as of the conception date of the Technology.

[SIGNATURES ON NEXT PAGE]

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#### ACCEPTED BY ASSIGNOR:

April 1, 2020 Date

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PATENT REEL: 058440 FRAME: 0864

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## PATENT **REEL: 058440 FRAME: 0865**

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PATENT **REEL: 058440 FRAME: 0867** 

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Citizenship

PATENT REEL: 058440 FRAME: 0868

# ACCEPTED BY ASSIGNEE:

10/14/2021

Date

By: <u>A</u> *U* By: <u>Printed: Kenneth Waite</u>

Title: Chief Patent Counsel Office of Technology Commercialization Purdue Research Foundation