# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT7344530

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
XIAONING JIANG	03/06/2020
TRAEYANG KIM	03/09/2020
YONG ZHU	03/20/2020

# **RECEIVING PARTY DATA**

Name:	NORTH CAROLINA STATE UNIVERSITY
Street Address:	1021 MAIN CAMPUS DRIVE
Internal Address:	2ND FLOOR
City:	RALEIGH
State/Country:	NORTH CAROLINA
Postal Code:	27606

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16808786

# **CORRESPONDENCE DATA**

Fax Number: (770)951-0933

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

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

Phone: 7709339500 Email: v.hay@thip.law **Correspondent Name: RAGAN BUCKLEY** 

Address Line 1: 3200 WINDY HILL ROAD SE

Address Line 2: SUITE 1600E

Address Line 4: ATLANTA, GEORGIA 30339

ATTORNEY DOCKET NUMBER:	221404-1470
NAME OF SUBMITTER:	RAGAN BUCKLEY
SIGNATURE:	/Ragan Buckley/
DATE SIGNED:	05/23/2022

**Total Attachments: 5** 

source=Assignment 221404-1470 Executed#page1.tif source=Assignment\_221404-1470\_Executed#page2.tif

source=Assignment\_221404-1470\_Executed#page3.tif source=Assignment\_221404-1470\_Executed#page4.tif source=Assignment\_221404-1470\_Executed#page5.tif

# ASSIGNMENT OF UTILITY PATENT APPLICATION

WHEREAS, the following parties:

hereinafter referred to as ASSIGNOR, has/have invented certain new and useful improvements ("invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled:

# FLEXIBLE PIEZO-COMPOSITE SENSORS AND TRANSDUCERS,

vhich was:	
	executed on even date herewith,
$\overline{\boxtimes}$	filed with the United States Patent and Trademark Office (USPTO) on March 4,
	2020, and assigned Serial No. 16/808,786, and
$\boxtimes$	further described in U.S. Utility application entitled "Flexible Piezo-Composite
	Sensors and Transducers", filed with the USPTO on March 5, 2019, and
	assigned Serial No. 62/813,896.

WHEREAS, North Carolina State University, having a place of business at Office of Research Commercialization, 1021 Main Campus Drive, 2<sup>nd</sup> Floor, Raleigh, NC 27606, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in and to said invention(s), said utility application, said provisional application, and any U.S. and foreign patents which are related to the same.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR, ASSIGNOR has sold, assigned and transferred and does hereby sell, assign and transfer unto ASSIGNEE, and ASSIGNEE'S successors and assigns, (a) the entire right, title and interest, for the United States of America, in and to said invention(s), said utility application, and said Provisional application and all the rights and privileges in any application and under any and all patents that may be granted in the U.S. for said inventions, including all corresponding provisional, continuation, continuation-in-part, divisional, reissue, and reexamination applications; and (b) the entire right, title and interest in and to said invention(s), said utility application, and said provisional application for all countries foreign to the U.S., including all rights of priority arising from them, and all the rights and privileges under any and all forms of protection, including patents, that may be granted in said countries foreign to the U.S. for them.

ASSIGNOR authorizes ASSIGNEE to make application for such protection in its own name and maintain such protection in any and all countries foreign to the U.S., and to invoke

Docket No. 221404-1470 Page 2 of 5 (Patent Assignment)

and claim for any application for patent or other form of protection for said Inventions, without further authorization from ASSIGNOR, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

ASSIGNOR hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of ASSIGNEE to apply for patent or other form of protection for said Inventions, said utility application, or said provisional application and to claim the aforesaid benefit of the right of priority.

ASSIGNOR requests that any and all patents for said inventions be issued to ASSIGNEE in the U.S. and to ASSIGNEE in all countries foreign to the U.S., or to such nominee as ASSIGNEE may designate.

ASSIGNOR covenants and agrees that, when requested, ASSIGNOR shall, without charge to ASSIGNEE but at ASSIGNEE'S expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient in connection with the patent applications, patents, or other forms of protection of said invention(s), and for the defense and protection thereof if challenged in the court of law.

ASSIGNOR authorizes ASSIGNEE or its agents to insert, on ASSIGNOR's behalf, the filing date and/or serial number above pertaining to the utility application and/or the provisional application, if not known as of the date of execution of this document.

Docket No. 221404-1470 Page 3 of 5 (Patent Assignment)

Xiaoning Jiang

Date: 3/6/20

United States of America

State of North Carolin a

County of Dake

(SEAL)

CINDY N. HENRY
Notary Public, North Carolins
Durham County
My Commission Expires
2 19 - 2625

February 19,2025

My Commission Expires (Date)

Notary Public

Docket No. 221404-1470 Page 4 of 5 (Patent Assignment)

INVENTOR:	Taeyang Kim	te: <u>/</u> 2	3-09-2020
City/Country	<u> 50ul /South Korea</u>		···
WITNESS 1:	224	Date: _	03 - 09 - 2020
Print Name:	Juhee Kim	***************************************	Saaw.
City/Country	Seoul / South Korea	***************************************	Micro
WTNESS 1:	Jalan_	Date: _	<u>03-01-7,,20</u>
Print Name: _	Youngham Han	······································	····
City/Country	Soul / South Konea		

Docket No. 221404-1470 Page 5 of 5 (Patent Assignment)

INVENTOR:	Yong Zhu	Date:3 <u>/</u> _	20/2020	
WITNESS 1:		Date:	3/20/20	
Print Name:	XIAOLIN	WANG		

PATENT REEL: 059984 FRAME: 0363

**RECORDED: 05/23/2022**