## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5517023

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date	
LI ZHANG	04/22/2019	
ZHIQIANG CHEN	04/22/2019	
SEN WANG	04/22/2019	
XIAOFEI XU	04/22/2019	
YUANJING LI	04/22/2019	
XIN JIN	04/20/2019	

#### **RECEIVING PARTY DATA**

Name:	TSINGHUA UNIVERSITY
Street Address:	TSINGHUA PARK
Internal Address:	HAIDIAN DISTRICT
City:	BEIJING
State/Country:	CHINA
Postal Code:	100084
Name:	NUCTECH COMPANY LIMITED
Name: Street Address:	NUCTECH COMPANY LIMITED  2ND FLOOR, BLOCK A, TONGFANG BUILDING SHUANGQINGLU
Street Address:	2ND FLOOR, BLOCK A, TONGFANG BUILDING SHUANGQINGLU
Street Address: Internal Address:	2ND FLOOR, BLOCK A, TONGFANG BUILDING SHUANGQINGLU HAIDIAN DISTRICT

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

Property Type	Number
Application Number:	16137547

### **CORRESPONDENCE DATA**

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Correspondent Name: SCHWEGMAN LUNDBERG & WOESSNER P.A.

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<u>PATENT</u> REFI · 049139 FRΔMF· 0203

ATTORNEY DOCKET NUMBER:	5228.010US1	
NAME OF SUBMITTER:	KERRI WRIGHT	
SIGNATURE:	/KERRI WRIGHT/	
DATE SIGNED:	05/10/2019	
Total Attachments: 9		
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PATENT REEL: 049139 FRAME: 0204

# RECORDATION FORM COVER SHEET PATENTS ONLY

Atty Ref/Docket No.: 5228.010US1 Patent and Trademark Office To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies): 1. Name of conveying party(ies): Name: Tsinghua University Li Zhang, Zhiqiang Chen, Sen Wang, Xiaofei Xu, Street Address: Tsinghua Park Yuanjing Li, Xin Jin Haidian District Additional name(s) of conveying party(ies) attached? City: Beijing, 100084 [ ]Yes [X]No Country: China 3. Nature of conveyance: Additional name(s) & address(es) attached? [X]Yes []No [X] Assignment [ ] Merger Name: Nuctech Company Limited [ ] Security Agreement [ ] Change of Name Street Address: 2nd Floor, Block A, TongFang Building [ ] Other Shuangainglu Haidian District Execution Date: April 22, 2019, April 22, 2019, April 22, 2019, April 22, 2019, April 20, 2019 City: Beijing, 100084 Country: China 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) B. Patent No.(s) Serial No. 16/137,547 Additional numbers attached? [ ]Yes [X]No 6. Total number of applications and patents involved: 1 5. Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41):\$ 0.00 Name: Aaron R. Wininger [Enclosed] []Authorized to be charged to deposit account 19-Address: 0743 Schwegman Lundberg & Woessner, P.A. P.O. Box 2938 8. Please charge any additional fees or credit any over Minneapolis, Minnesota 55402 payments to our Deposit Account No.: 19-0743 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. 2019-05-10 Aaron R. Wininger/Reg. No. 45,299 Name of Person Signing Signature Total number of pages including cover sheet: 9

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks Mail Stop Assignment Recordation Services P.O. Box 1450 Alexandria, VA 22313-1450

PATENT REEL: 049139 FRAME: 0205

#### **ASSIGNMENT**

WHEREAS, Li Zhang, Zhiqiang Chen, Sen Wang, Xiaofei Xu, Yuanjing Li and Xin Jin (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "invention"); as described in the patent application filed on September 21, 2018, assigned US application serial number 16/137,547, and titled DATA PROCESSING METHOD AND DEVICE as described in a patent application filed on February 10, 2017 assigned PCT application serial number PCT/CN2017/073206, and titled DATA PROCESSING METHOD AND DATA PROCESSING APPARATUS; and as described in a patent application filed on August 3, 2016 assigned Chinese application serial number 201610630202.3, and titled DATA PROCESSING METHOD AND DEVICE.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged by the Undersigned, the Undersigned do hereby irrevocably and unconditionally:

CONVEY, ASSIGN, AND TRANSFER to Nuctech Company Limited (the "Assignee"), having a place of business at 2nd Floor, Block A, TongFang Building Shuangqinglu, Haidian District, Beijing 100084, China, and to Tsinghua University (jointly the "Assignee"), having a place of business at Tsinghua Park, Haidian District, Beijing 100084, China, the Undersigned's entire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the Invention which is disclosed in the above-identified application or applications;

such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such Invention;

including the right to claim priority to the above-identified patent application or applications in relation to subject matter based in whole or in part on the above-identified patent application or applications and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-identified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such invention to the Assignee;

PATENT REEL: 049139 FRAME: 0206 AUTHORIZE AND REQUEST that any attorney associated with U.S. Patent and Trademark Office (USPTO) Customer No. 21186 may (directly or through his/her designee) delete, insert, or alter any information related to the above-identified patent application or applications or any of the foregoing, after execution of this Assignment;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall be made to others by the Undersigned, and that the full right to convey the same as herein expressed is possessed by the Undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the Undersigned shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the Invention; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the Invention; (3) communicate to the Assignee all facts known to the Undersigned relating to the Invention and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for the Invention; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such Invention in the Assignee, or for securing, maintaining and enforcing proper patent protection for the Invention:

COVENANT, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions.

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives, and successors of the Undersigned, and is to extend to the benefit of the successors, assigns, and nominees of the Assignee.

AGREED as of the date of my signature below:

Assignment
Assignors: Li Zhang et al.
Title: DATA PROCESSING METHOD AND DEVICE
Page 3 of 8

Docket No: 5228.010US1 Client Ref. No. 17PF1476US

Assignor:

(Signature):

Name: Li Zhang

City/State: Beijing, China

Date:

**PATENT** 

Assignment
Assignors: Li Zhang et al.
Title: DATA PROCESSING METHOD AND DEVICE
Page 4 of 8

Docket No: 5228.010US1 Client Ref. No. 17PF1476US

Assignor:

(Signature):

Name: Zhiqiang Chen City/State: Beljing, China

Date:

(Apr:1 22, 701)

Assignment	
Assignors: Li Zhang et al.	
Title: DATA PROCESSING METHOD AND DEVICE	E
Page 5 of 8	

Docket No: 5228.010U\$1 Client Ref. No. 17PF1476US

Assignor:

(Signature):

Name: Sen Wang
City/State: Beijing, China

Date:

**PATENT** 

Assignment	
Assignors: Li Zhang et al.	
Title: DATA PROCESSING METHOD AND D	DEVICE
Page 6 of 8	

Docket No: 5228.010US1 Client Ref. No. 17PF1476US

Assignor:

(Signature):

Xiaofei Xu

Name: Xiaofei Xu

City/State: Beijing, China

Date:

April 22,2019

Assignment
Assignors: Li Zhang et al.
Title: DATA PROCESSING METHOD AND DEVICE
Page 7 of 8

Docket No: 5228.010US1 Client Ref, No. 17PF1476US

Assignor:

(Signature):

Name: Yuanjing Li

City/State: Beijing, China

Date:

Bor. (1 1.798)

Assignment
Assignors: Li Zhang et al.
Title: DATA PROCESSING METHOD AND DEVICE
Page 8 of 8

Docket No. 5228.010US1 Client Ref. No. 17PF1476US

Assignor:

(Signature):

Name: Xin Jin

City/State: Beijing, China

Date:

PATENT