

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5409468

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
YIRAN CHEN	01/11/2019
ZHENG LI	03/05/2019
HAI LI	01/11/2019
RECEIVING PARTY DATA	
Name:	UNIVERSITY OF PITTSBURGH-OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION
Street Address:	130 THACKERAY AVENUE
Internal Address:	1ST FLOOR GARDNER STEEL CONFERENCE CENTER
City:	PITTSBURGH
State/Country:	PENNSYLVANIA
Postal Code:	15260
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16311809
CORRESPONDENCE DATA	
Fax Number:	(412)566-6099
<i>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.</i>	
Phone:	(412)566-6000
Email:	ipmail@eckertseamans.com
Correspondent Name:	ECKERT SEAMANS CHERIN & MELLOTT LLC
Address Line 1:	U.S. STEEL TOWER
Address Line 2:	600 GRANT STREET, 44TH FLOOR
Address Line 4:	PITTSBURGH, PENNSYLVANIA 15219
ATTORNEY DOCKET NUMBER:	214001-01585 US
NAME OF SUBMITTER:	PHILIP E. LEVY
SIGNATURE:	/Philip E. Levy/
DATE SIGNED:	03/07/2019
Total Attachments: 4	
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PATENT

REEL: 048529 FRAME: 0116

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **YIRAN CHEN**, residing at 100 Crofton Drive, Pittsburgh, Pennsylvania 15238, **ZHENG LI**, residing at 259 Melwood Avenue, Apt. 1, Pittsburgh, Pennsylvania 15213, and **HAI LI**, residing at 100 Crofton Avenue, Pittsburgh, Pennsylvania 15238;

Hereby sell, assign and transfer to the **UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION**, a non-profit Pennsylvania corporation, having a place of business at 1st Floor Gardner Steel Conference Center, 130 Thackeray Avenue, Pittsburgh, Pennsylvania 15260, in the County of Allegheny and Commonwealth of Pennsylvania, its successors, assigns and legal representatives, our entire right, title and interest, for all countries, in and to any and all improvements which are disclosed and claimed, and any and all improvements which are disclosed but not claimed, in United States Patent Application No. 16/311,809, filed on December 20, 2018, entitled "**TWO-Dimensionally Accessible Non-Volatile Memory**" which is a U.S. National Stage Application under 35 USC 371 of PCT International Application No. PCT/US2017/039613, filed on June 28, 2017, entitled "**TWO-Dimensionally Accessible Non-Volatile Memory**" and in and to said applications and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed on any of said improvements disclosed in said applications; and in and to all original and reissued patents which have been or shall be issued on said improvements;

Authorize and request the Commissioner of Patents and Trademarks to issue to said Assignee, the **UNIVERSITY OF PITTSBURGH - OF THE COMMONWEALTH SYSTEM OF HIGHER EDUCATION**, its successors, assigns and legal representatives, in accordance with this Assignment, any and all United States Letters Patent on said improvements, or any of them, disclosed in said applications;

Agree that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this Assignment we will, for all countries, execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known to us relating to said improvements and the history thereof; testify in all legal

proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said improvements, and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives;

Covenant with said Assignee, its successors, assigns and legal representatives that we have made to others no assignment, grant, mortgage, license or other agreement affecting the rights and property conveyed, and that we have full right to convey the same as herein expressed.

EXECUTED Jan 11, 2019 2019

YIRAN CHEN

(SEAL)

Commonwealth of Pennsylvania)
) ss:
 County of Allegheny)

Before me this 11 day of Jan, 2019, YIRAN CHEN, personally appeared and is known to be the person who is described in and who executed the above instrument, and he acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

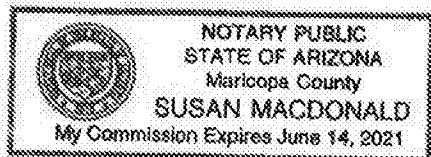
Notary Public For

My commission expires: 4-15-2022

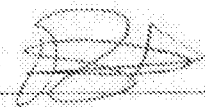
[SEAL]

EXECUTED March 5th 2019Zheng Li
ZHENG LI (SEAL)Commonwealth of Arizona)
~~Pennsylvania~~) ss:
County of ~~Allegheny~~ maricopa)

Before me this 5 day of march, 2019, ZHENG LI, personally appeared and is known to be the person who is described in and who executed the above instrument, and he acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

Susan MacDonald
Notary Public For maricopa county
My commission expires: 6-14-21


[SEAL]

EXECUTED Jan 16 2019
HAI LI

(SEAL)

Commonwealth of Pennsylvania)
County of Allegheny) ss:
)

Before me this 11 day of Jan, 2019, HAI LI, personally appeared and is known to be the person who is described in and who executed the above instrument, and he acknowledged to me that he executed the same of his own free will for the purposes therein set forth.


Notary Public For Allegheny CountyMy commission expires: 4-8-2022

[SEAL]