

PATENT ASSIGNMENT COVER SHEET

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|---|----------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| MENG-FAN CHANG | 07/31/2020 |
| CHENG-XIN XUE | 07/31/2020 |
| JE-SYU LIU | 07/31/2020 |
| TING-WEI CHANG | 07/31/2020 |
| TSUNG-YUAN HUANG | 07/31/2020 |
| HUI-YAO KAO | 07/31/2020 |
| RECEIVING PARTY DATA | |
| Name: | NATIONAL TSING HUA UNIVERSITY |
| Street Address: | NO.101, SECTION 2, KUANG-FU ROAD |
| City: | HSINCHU |
| State/Country: | TAIWAN |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16987372 |
| CORRESPONDENCE DATA | |
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| NAME OF SUBMITTER: | JAMES LYNN O'SULLIVAN |
| SIGNATURE: | /James Lynn O'Sullivan/ |
| DATE SIGNED: | 08/10/2020 |
| Total Attachments: 2 | |
| source=TWT07417US-Assignment#page1.tif | |

ASSIGNMENT

This assignment agreement is applicable to an invention entitled (Invention Title) _____
 MEMORY UNIT WITH ADAPTIVE CLAMPING VOLTAGE SCHEME AND
 CALIBRATION SCHEME FOR MULTI-LEVEL NEURAL NETWORK BASED
 COMPUTING-IN-MEMORY APPLICATIONS AND COMPUTING METHOD
 THEREOF

The PATENT RIGHTS referred to in this agreement are:

(check one) ☒ a patent application for this invention, executed by the ASSIGNOR(S)
 concurrently with this assignment.

☐ U.S. patent application Serial No. _____, filed _____

☐ a U.S. patent application based on PCT International Application
 No. _____ filed on (date) _____ (U.S. patent application
 Serial No. _____, if known).

☐ U.S. patent No. _____, issued _____.

The PATENT RIGHTS also include all divisions, reissues, continuations and extensions of
 the patents and patent applications identified above.

The PATENT RIGHTS assigned under this agreement are:

☒ U.S. patent rights only.

The ASSIGNOR(S) referred to in this agreement is (or are) the inventor(s) whose signatures
 appear on page 2 of this Assignment and any Supplemental Sheet(s).

The ASSIGNEE referred to in this agreement is:

(Name of Assignee) NATIONAL TSING HUA UNIVERSITY

(Address) NO.101, SECTION 2, KUANG-FU ROAD, HSINCHU, TAIWAN, R.O.C.

The ASSIGNEE is:

(check one) ☐ An individual.

☐ A Partnership.

☐ A Corporation of _____ (specify state or country)

☒ (other) A University of TAIWAN, R.O.C.

The ASSIGNOR(S), in consideration of \$10.00 paid by the ASSIGNEE, and other good and
 valuable consideration, receipt of which is acknowledged, hereby assign(s) the following
 rights to the ASSIGNEE, its successors and assigns:

the full and exclusive right to the invention;

the entire right, title and interest in and to the PATENT RIGHTS;

the right to sue and recover for any past infringement; and

the right to claim priority under 35 USC 119, 35 USC 120, or any other applicable
 provisions, based on any earlier patent applications for this invention.

THIS IS PAGE 2 OF AN ASSIGNMENT FROM THE INVENTOR(S) TO
ASSIGNEE: NATIONAL TSING HUA UNIVERSITY
INVENTION TITLE: MEMORY UNIT WITH ADAPTIVE CLAMPING VOLTAGE
SCHEME AND CALIBRATION SCHEME FOR MULTI-LEVEL NEURAL NETWORK
BASED COMPUTING-IN-MEMORY APPLICATIONS AND COMPUTING METHOD
THEREOF

As to all U.S. patent applications assigned under this agreement, the ASSIGNOR(S) hereby authorize(s) and request(s) the Commissioner of Patents and Trademark to issue all Letters Patent to the ASSIGNEE as the assignee of the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE, its successors and assigns.

Further, the ASSIGNOR(S) agree(s) to communicate to said ASSIGNEE, or its representatives, any fact known to the ASSIGNOR(S) with respect to said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause and all Letter Patent to be issued to said ASSIGNEE, make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention.

The ASSIGNOR(S) authorize(s) the attorneys and agents who have the power of attorney in this application to check any appropriate boxes and to insert the Serial Number and filing date in this document after it has been executed.

Meng-Fan CHANG

Name of sole or first inventor

Meng-Fan Chang
Signature

2020/7/31
Date

Cheng-Xin XUE

Name of second inventor, if any

Cheng-Xin Xue
Signature

2020/7/31
Date

Je-Syu LIU

Name of third inventor, if any

Je-Syu LIU
Signature

2020/7/31
Date

Ting-Wei CHANG

Name of fourth inventor, if any

Ting-Wei Chang
Signature

2020/7/31
Date

Tsung-Yuan HUANG

Name of fifth inventor, if any

Tsung-Yuan HUANG
Signature

2020/7/31
Date

Hui-Yao KAO

Name of sixth inventor, if any

Hui-Yao KAO
Signature

2020/7/31
Date