

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HUAQIANG WU	09/04/2018
WEI WU	09/04/2018
BIN GAO	09/04/2018
HE QIAN	09/04/2018
RECEIVING PARTY DATA	
Name:	TSINGHUA UNIVERSITY
Street Address:	HAI DIAN DISTRICT
City:	BEIJING
State/Country:	CHINA
Postal Code:	100084
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17037039
CORRESPONDENCE DATA	
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NAME OF SUBMITTER:	ARTHUR T. YUAN
SIGNATURE:	/ARTHUR TAN-CHI YUAN/
DATE SIGNED:	02/01/2021
Total Attachments: 6	
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ASSIGNMENT

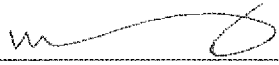
For valuable consideration, the receipt of which we acknowledge, and intending to be bound legally, we, HUAQIANG WU, WEI WU, BIN GAO, and HE QIAN, each individually assigns to TSINGHUA UNIVERSITY, an institute of higher education of China and having a principal place of business at TSINGHUA UNIVERSITY Haidian District, Beijing 100084, CHINA, and its successors, transferees, and assignees (collectively the "Assignee"), all of our individual and joint right, title, and interest throughout the world in the invention(s) (the "Subject Matter") described in a patent application that names us as inventors, is titled "RESISTIVE RANDOM ACCESS MEMORY AND MANUFACTURE METHOD THEREOF," and was or will be filed in the United States Patent and Trademark Office on 9/6/2018, as application 16/123,234 (the "Application"). We authorize the insertion of the filing date and application number above.

This Assignment assigns, in addition to the Subject Matter of the Application, (a) the Application and all other applications that may be made for, and all patents, utility models, design registrations, and other rights of exclusion and inventors' certificates for, any of the Subject Matter (collectively the "Applications and Granted Rights") in every country or region and under every treaty or convention, (b) the right to claim priority based on and the benefit of the filing date of any of the Applications and Granted Rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other applicable treaties or conventions, and (c) the right to pursue, collect, and retain in the Assignee's name or otherwise, damages and any other remedies arising from any past, present, or future infringement of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment.

We authorize the Assignee to apply for and pursue protection for any or all of the Subject Matter, the Applications and Granted Rights, and any other rights assigned by this Assignment in all countries, regions, and territories of the world, in our names or in the Assignee's name.

We represent and warrant that we have the right and power to make this Assignment and that we have not made and will not make any other assignment that conflicts with this Assignment.

We will communicate to the Assignee (or, at the request of the Assignee to other parties) all known facts in any form relating to the Subject Matter; will execute and provide all oaths and declarations, statements, testimony, assignments, powers of attorney, applications, and documents; and will perform all other lawful acts necessary or desirable to secure fully to the Assignee the rights, titles, and interests assigned by this Assignment.



Huaqiang WU

Date: Sept 4, 2018

Witnessed by:

Signature: Zhang Xuan

Date: Sept 4, 2018

Print Name: Xuan ZHANG

Signature: Xinyi LI

Date: sept 4, 2018

Print Name: Xinyi LI

Wei WU, PHD candidate
Wei WU

Date: Sept 4, 2018

Witnessed by:

Signature: Zhang Xuan

Date: Sept 4, 2018

Print Name: Xuan ZHANG

Signature: Xinyi LI

Date: Sept 4, 2018

Print Name: Xinyi LI



Bin GAO

Date: Sept 4, 2018

Witnessed by:

Signature: Zhang xuan

Date: Sept 4, 2018

Print Name: Xuan ZHANG

Signature: Xinyi LI

Date: Sept 4, 2018

Print Name: Xinyi LI

H. Qian
He QIAN

Date: Sept 4, 2018

Witnessed by:

Signature: Zhang Xuan

Date: Sept 4, 2018

Print Name: Xuan ZHANG

Signature: Xinyi LI

Date: Sept 4, 2018

Print Name: Xinyi LI

The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: TSINGHUA UNIVERSITY

Signature:  Date: Sept 4, 2018

Name: Qi-kun Xue

Title: Vice President

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