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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JIWU SHU	07/03/2021
QING WANG	07/03/2021
YOUYOU LU	07/03/2021
ZHUO CHENG	07/03/2021

RECEIVING PARTY DATA

Name:	TSINGHUA UNIVERSITY
Street Address:	QINGHUAYUAN
Internal Address:	HAIDIAN DISTRICT
City:	BEIJING
State/Country:	CHINA
Postal Code:	100084

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17534121

CORRESPONDENCE DATA

Fax Number: (716)849-0349

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: (716)856-4000

Email: ipdocketing@hodgsonruss.com

Correspondent Name: HODGSON RUSS LLP Address Line 1: 140 PEARL STREET

Address Line 2: SUITE 100

Address Line 4: BUFFALO, NEW YORK 14202

ATTORNEY DOCKET NUMBER:	075559.10236	
NAME OF SUBMITTER:	BLAIR K. ANDREWS	
SIGNATURE:	/blair k andrews/	
DATE SIGNED: 12/09/2021		
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Total Attachments: 2

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PATENT REEL: 058351 FRAME: 0991

ASSIGNMENT OF INVENTION

WHEREAS, we, **Jiwu SHU**, Qinghuayuan, Haidian District, Beijing 100084, P. R. China; **Qing WANG**, Qinghuayuan, Haidian District, Beijing 100084, P. R. China; **Youyou LU**, Qinghuayuan, Haidian District, Beijing 100084, P. R. China; and **Zhuo CHENG**, Qinghuayuan, Haidian District, Beijing 100084, P. R. China, have invented certain new and useful improvements in a METHOD AND SYSTEM FOR CONSTRUCTING PERSISTENT MEMORY INDEX IN NON-UNIFORM MEMORY ACCESS ARCHITECTURE, for which an application for Letters Patent in the United States is being filed, claiming priority to Chinese Patent Application No. 202110722046.4 filed on June 28, 2021;

AND WHEREAS, **Tsinghua University**, Qinghuayuan, Haidian District, Beijing 100084, P. R. China, is desirous of acquiring all interest in said invention, said application, and in any Letters Patent which may be granted therefor;

AND WHEREAS, at the time the invention was made, we were under an obligation to assign all of our right, title, and interest in said invention to Tsinghua University.

NOW THIS INDENTURE WITNESSETH, that for the sum of one dollar and other valuable consideration to us in hand paid, the receipt of which is hereby acknowledged, we hereby assign, sell, and transfer unto said Tsinghua University our entire right, title, and interest in said invention, said application, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights, rights under the International Convention For The Protection Of Industrial Property, rights under the Patent Cooperation Treaty, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto.

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue said United States Letters Patent to said Tsinghua University as the assignee of the whole right, title, and interest thereto.

And we further agree to sign and properly execute such necessary and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and for obtaining any reissue or reissues of any Letters Patent which may be granted for our aforesaid invention, as the assignee thereof shall hereafter require and prepare at its own expense.

WITNESS, our signature and date of execution:

PATENT REEL: 058351 FRAME: 0992

Jiwu SHU	2020/07/03
Jiwu SHU	Date
Qing WANG	2021/07/03
Qing WANG	Date
Youyou LU	2021/07/03
Youyou LU	Date
2 huo CHENG	_ 20 21 / 07 / 03
Zhuo CHENG	Date

PATENT REEL: 058351 FRAME: 0993

RECORDED: 12/09/2021