PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MASARU MOROHASHI	06/12/2018
RYO NAGOSHI	06/11/2018
YUAN HE	06/11/2018
YUTAKA ITO	06/12/2018

RECEIVING PARTY DATA

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State/Country:	IDAHO
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16012679

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ATTORNEY DOCKET NUMBER:	P276111US01	
NAME OF SUBMITTER:	MICHAEL S. CORDRAY	
SIGNATURE:	/Michael S. Cordray, Patent Agent/	
DATE SIGNED:	06/19/2018	

Total Attachments: 4

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PATENT REEL: 046134 FRAME: 0724 504967753

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PATENT REEL: 046134 FRAME: 0725

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Masaru Morohashi, Ryo Nagoshi, Yuan
He and Yutaka Ito

Docket No. P276111.US.01

Disclosure No. 2018-0313.00/US

Filed: Concurrently herewith

For: APPARATUSES AND METHODS
FOR MULTIPLE ROW HAMMER
REFRESH ADDRESS SEQUENCES

ASSIGNMENT:

<u>X</u>	Enclosed for recording
	Previously recorded
Date:	
Reel:	

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned does hereby:

SELL, ASSIGN AND TRANSFER to Micron Technology, Inc. (the "Assignee"), a corporation of Delaware, having a place of business at 8000 South Federal Way, Boise, Idaho 83716-9632, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned concurrently herewith and is entitled "APPARATUSES AND METHODS FOR MULTIPLE ROW HAMMER REFRESH ADDRESS SEQUENCES"; such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States of America;

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

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will 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 at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for securing, maintaining and enforcing proper patent protection for such improvements and for vesting title to such improvements in the Assignee;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signature: <u>hosoro Prochaski</u> Assignor Name: Masaru Morohashi	Date: 6//2/20/8	e 80
Witness # 1: Signature: Masayoshi Yamazaki Witness Name: Masayoshi Yamazaki	Date: 6/12/2013	
Witness # 2: Signature: Apole Comple Witness Name: Shoko Tomita	Date: 06-12-2018	}-

Signature: Ryo Negoshi	Date:	2018 / 06 / 1
Assignor Name: Ryo Nagoshi		
Witness # 1: Signature: Witness Name: Masayoshi Yamazaki	Date:	and/6/11.
Witness # 2; Signature: <u>Sho (co (orus))</u> Witness Name: Shoko Tomita	Date:	16-11-2018
Signature: Luan He Assignor Name: Yuan He	Date:	2018/06/11
Witness # 1: Signature: Masayoshi Yamazaki	Date:	11\0\tH
Witness # 2: Signature: Shoko Tomita Witness Name: Shoko Tomita	Date:	06-11-2018

Signature: <u>Jutake Lo</u> Assignor Name: Yutaka Ito	Date: Juno 12, 201
Witness # 1: Signature: Masayoshi Yamazaki	Date: <u>JUne 121</u> ≈013
Witness # 2: Signature:	Date: <u>06-{2-20/8</u>