PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HIROSHI AKAMATSU	05/12/2015

RECEIVING PARTY DATA

Name:	MICRON TECHNOLOGY, INC.
Street Address:	8000 SOUTH FEDERAL WAY
City:	BOISE
State/Country:	IDAHO
Postal Code:	83716-9632

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16112471

CORRESPONDENCE DATA

Fax Number: (206)299-9288

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: 206-903-8800

Email: ip.docket.se@dorsey.com

Correspondent Name: DORSEY & WHITNEY LLP-IP DEPT.-MTI

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Address Line 2: 701 5TH AVENUE, SUITE 6100

Address Line 4: SEATTLE, WASHINGTON 98104-7043

ATTORNEY DOCKET NUMBER:	P251679.US.03
NAME OF SUBMITTER:	KAITLYN PIERSON
SIGNATURE:	/Kaitlyn Pierson/
DATE SIGNED:	08/24/2018

Total Attachments: 2

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PATENT 505063340 REEL: 046701 FRAME: 0831

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	Docket No. P251679.US.01
Hiroshi Akamatsu	Disclosure No. ELPA-0309.00/US
Filed: Concurrently herewith	
For APPARATUSES AND METHODS FOR CONTROLLING REFRESH OPERATIONS	
ASSI	GNMENT:
X Enclosed for recording Previously recorded	

Date:

Reel:

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned do 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 CONTROLLING REFRESH OPERATIONS", which claims priority to JP patent application, filed on May 21, 2014, assigned Application No. 2014-105197 and is entitled "APPARATUSES AND METHODS FOR CONTROLLING REFRESH OPERATIONS"; 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;

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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.

Hirondi	akamatow	Date:	5/12/2015
Hiroshi Akamatsu	1		**************************************

STATE OF IDAHO)

County of Ada) ss.

BEFORE ME, this 12^3 day of 15, personally appeared the above-named individual, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

Notary or Consular Officer

My-Commission Expires 12

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