## 503841150 05/24/2016

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3887798

	xecution Date	
Name   Exec     IVAN ILIEV IVANOV   05/24/     RECEIVING PARTY DATA   Micron Technology, Inc.     Name:   Micron Technology, Inc.     Street Address:   8000 S. Federal Way     City:   Boise     State/Country:   IDAHO     Postal Code:   83707-0006     PROPERTY NUMBERS Total: 1   Property Type     PROPERTY NUMBERS Total: 1   15163482     CORRESPONDENCE DATA   Fax Number:     (281)970-4503   Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.     Phone:   281-970-4545     Email:   docket@fyiplaw.com, manware@fyiplaw.com     Correspondent Name:   ROBERT A. MANWARE     Address Line 1:   PO BOX 692289		
VAN ILIEV IVANOV   05/24/     RECEIVING PARTY DATA   Micron Technology, Inc.     Name:   Micron Technology, Inc.     Street Address:   8000 S. Federal Way     City:   Boise     State/Country:   IDAHO     Postal Code:   83707-0006     PROPERTY NUMBERS Total: 1   Property Type     Property Type   Number     Application Number:   15163482     CORRESPONDENCE DATA   Fax Number:     Fax Number:   (281)970-4503     Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.     Phone:   281-970-4545     Email:   docket@fyiplaw.com, manware@fyiplaw.com     Correspondent Name:   ROBERT A. MANWARE     Address Line 1:   PO BOX 692289		
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Correspondent Name:ROBERT A. MANWAREAddress Line 1:PO BOX 692289		
Address Line 1: PO BOX 692289		
ATTORNEY DOCKET NUMBER: MICS:0388		
NAME OF SUBMITTER: ROBERT A. MANWARE		
SIGNATURE: /Robert A. Manware/		
DATE SIGNED: 05/24/2016   Fotal Attachments: 1		

## ASSIGNMENT

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 the State of Delaware, having a place of business at 8000 S. Federal Way, Boise, Idaho 83707-0006, 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 is entitled "MEMORY DEVICE ERROR BASED ADAPTIVE REFRESH RATE AND METHODS," and which may be further identified below; 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 any of 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;

AUTHORIZE AND REQUEST that any attorney associated with PTO Customer No. 52142 may insert additional information identifying this application below after execution of this assignment;

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, 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 (1) execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; (4) cooperate with the Assignee in any interference, opposition, dispute, or litigation involving any of the applications or patents for such improvements; and (5) generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

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

Additional Application Informatic	20
U.S. Provisional Application Serial No.	, filed on
U.S. Non-Provisional Application Serial No. 15/163,482	, filed on May 24, 2016
International Application Serial No.	, filed on
Signature):	Date: 24,05-2016
Witnessed by:	Date: 24.5.2016
Rein hard Weig/ Printed Name of Witness	
Vitnessed by: Auto Tay fel ste	Date: 24.5.2016
ELENA EVANGELISTA Printed Name of Witness	

Page 1 of 1

**RECORDED: 05/24/2016** 

PATENT REEL: 038708 FRAME: 0751