505790292 11/25/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5837120

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LYLE E. ADAMS	12/13/2018
MARK ISH	12/16/2018
PUSHPA SEETAMRAJU	12/14/2018
KARL D. SCHUH	12/14/2018
DAN TUPY	06/05/2019

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16693801

CORRESPONDENCE DATA

Fax Number: (408)675-0442

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: 4086750441 carrie@ndwe.com

Correspondent Name: NICHOLSON DE VOS WEBSTER & ELLIOTT LLP

Address Line 1: 99 ALMADEN BLVD.

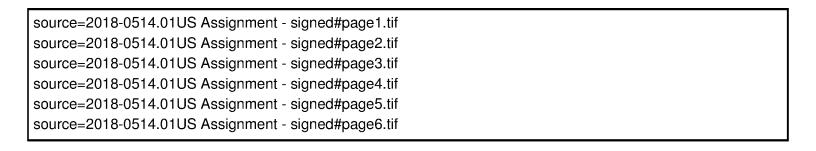
Address Line 2: SUITE 710

Address Line 4: SAN JOSE, CALIFORNIA 95113

ATTORNEY DOCKET NUMBER:	2018-0514.01US
NAME OF SUBMITTER:	RYAN W. ELLIOTT
SIGNATURE:	/Ryan W. Elliott/
DATE SIGNED:	11/25/2019

Total Attachments: 6

PATENT REEL: 051103 FRAME: 0335



PATENT REEL: 051103 FRAME: 0336

This Assignment is made by the undersigned (hereinafter referred to as "Assignor(s)") in favor and for the benefit of, **Micron Technology**, **Inc.**, a **corporation** of **Delaware**, having its principal place of business at **8000 South Federal Way**, **Boise**, **Idaho 83716-9632** (hereinafter referred to as "Assignee").

For good, sufficient and adequate consideration, the receipt of which is hereby acknowledged, the Assignor(s) hereby sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to any and all inventions and improvements that are disclosed in the following application(s) (provisional or non-provisional) and in and to said application(s) (provisional or non-provisional) in all countries and pursuant to all multilateral treaty organizations including the United States of America, the Patent Cooperation Treaty and European Patent Convention, that may be granted therefor and thereon, and in and to any and all divisional applications, continuation applications, conversions, national phase applications, reissue applications, substitute applications, renewal applications, design applications, utility models of said application(s), and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements:

HANDLING OPERATION COLLISIONS IN A NON-VOLATILE MEMORY

including, but not limited to, the following application(s):

Country	Application No.	Filing Date
US	16/223,057	December 17, 2018
US	16/693,801	November 25, 2019

Assignor(s) hereby authorize and request Assignee's Attorneys to insert the serial number and filing date of said application(s) when known.

The assignment of the above mentioned rights includes a transfer of the whole right to use a priority (including priority according to any convention, multilateral agreement, bilateral agreement and national law) of the above mentioned application(s) in all countries and multilateral treaty organizations wherein no residual rights shall remain with the Assignor(s). Assignee alone hereinafter has the entire disposal of the inventions and possesses entire ownership to any patents (domestic and/or foreign, including utility models) granted thereinafter. The rights granted hereunder shall include all rights to institute legal actions, obtain remedies and recover and retain damages in respect to said patents.

The Assignor(s) hereby agree that said Assignee may apply for and receive patent(s) (domestic and/or foreign, including utility models) for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, Assignor(s) shall sign all papers and documents, take all lawful oaths, and do all

Page 1 of 2

PATENT REEL: 051103 FRAME: 0337

acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of said patent(s) for said inventions and improvements.

Each of the Assignor(s) hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the Assignor(s), and that full right to convey the same as herein expressed is possessed by the Assignor(s).

Signature:	Control of the second second	12/13/2018
Print Name:		13 /13/20/8 Date signed
Signature:		` <u></u>
Print Name:	MARK ISH	Date signed
Signature:		
Print Name:	PUSHPA SEETAMRAJU	Date signed
Signature:		
Print Name:	KARL D. SCHUH	Date signed
Signature:		
Print Name:	DAN TUPY	Date signed

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Signature:		
Print Name:	LYLE E. ADAMS	Date signed
Signature: Print Name:	MARK ISH	
Signature: Print Name:	PUSHPA SEETAMRAJU	Date signed
Signature:		
Print Name:	KARL D. SCHUH	Date signed
Signature:		
Print Name:	DAN TUPY	Date signed

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Signature:		
Print Name:	LYLE E. ADAMS	Date signed
Signature:		
Print Name:	MARK ISH	Date signed
Signature: Print Name:	PUSHPA SEF/FAMRAJU	12/14/18 Date signed
Signature:		
Print Name:	KARL D. SCHUH	Date signed
Signature:	* *	8.8
Print Name:	DAN TUPY	Date signed

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Signature:			
Print Name:		LYLE E. ADAMS	Date signed
Signature:			
Print Name:	888.88	MARK ISH	Date signed
Signature:			
Print Name:		PUSHPA SEETAMRAJU	Date signed
Signature:		la l	14 0 ECENOSO, 323/
Print Name:		KARL D. SCHUH	Date signed
Signature:			* * * * * * * * * * * * * * * * * * *
Print Name:		DAN TUPY	Date signed

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Each Inventor - Please sign and date below:

Signature:		
Print Name:	LYLE E. ADAMS	Date signed
Signature:		<u></u>
Print Name:	MARK ISH	Date signed
Signature:		
Print Name:	PUSHPA SEETAMRAJU	Date signed
Signature:		
Print Name:	KARL D. SCHUH	Date signed
Signature	The state of the s	6/5/19
Print Name:	DAN TUPY	Date signed
	/	ž.

RECORDED: 11/25/2019