506837096 08/25/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6883917

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MD ZAKIR ULLAH	04/14/2021
XIAOSONG ZHANG	04/07/2021
ADAM L. OLSON	04/02/2021
MOHAMMAD MOYDUL ISLAM	04/14/2021
TIEN MINH QUAN TRAN	04/01/2021
CHAO ZHU	08/24/2021
ZHIGANG YANG	05/14/2021
MERRI L. CARLSON	03/31/2021
HUI CHIN CHONG	04/10/2021
KOK SIAK TANG	04/05/2021

RECEIVING PARTY DATA

Name:	MICRON TECHNOLOGY, INC.
Street Address:	8000 SOUTH FEDERAL WAY, MAILSTOP 1-507
City:	BOISE
State/Country:	IDAHO
Postal Code:	83707-0006

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17016002

CORRESPONDENCE DATA

Fax Number: (801)531-9168

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: 8015321922

Email: mebriggs@traskbritt.com

TRASKBRITT Correspondent Name:

Address Line 1: 230 SOUTH 500 EAST, SUITE 300 Address Line 4: SALT LAKE CITY, UTAH 84102

ATTORNEY DOCKET NUMBER: 2269-15531(2019-2425.00

> **PATENT REEL: 057317 FRAME: 0255**

506837096

NAME OF SUBMITTER:	ELIZABETH HERBST SCHIERMAN
SIGNATURE:	/Elizabeth Herbst Schierman/
DATE SIGNED:	08/25/2021

Total Attachments: 30

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Attorney Docket No. 2269-P15531US (2019-2425.00/US)

ASSIGNMENT

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

SELL, ASSIGN AND TRANSFER to MICRON TECHNOLOGY, INC.

("ASSIGNEE"), a corporation of the State of Delaware, having a place of business at 8000 South Federal Way, Mailstop 1-507, Boise, ID 83707-0006, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements that are disclosed in the Application for United States Letters Patent Serial No. 17/016,002 filed on September 9, 2020, and titled MICROELECTRONIC DEVICES WITH TIERED DECKS OF DIFFERING PILLAR DENSITY AND RELATED METHODS AND SYSTEMS, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent or the legal equivalent thereof that have been or may be filed in the United States and all foreign countries relating to any of such improvements; all original, reexamined and reissued patents that 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 made in the United States:

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

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ASSIGNOR(S):	
ر المالية	Date: 04/14/2021
Md Zakir Ullah Mailing address: The Quintet, Block 44, #14-17, Choa Chu	
×	
	Date:
Xiaosong Zhang Mailing address: 6563 E Bend Ridge Street, Boise, ID 837	
	Date:
Adam L. Olson Mailing address: 5757 E Hootowl Drive, Boise, ID 83716	
	Date:
Mohammad Moydul Islam Mailing address: Block 467, Segar Road, #04-188, Singapo	ore 670467
Tien Minh Ouan Tran	Date:

Mailing address: Skies Miltonia, Block 35 Miltonia Close, #11-32, Singapore 768065

	40	Date:
Chao Zhu	*	*
Mailing address:	Block 321 Woodlands Street 32, #10-25	1, Singapore 730321
		Date:
Zhigang Yang		. 40
Mailing address:	48 Canberra Drive, #12-13, Yishun Sap	phire, Singapore 768437
		Date:
Merri L. Carlson		
Mailing address:	12397 West Ginger Creek Drive, Boise,	ID 83713
		Date:
Hui Chin Chong		
Mailing address:	10, Corporation Walk, Singapore 61841	3
·	,	Date:
David is isomey		
Mailing address:	4683 South Silverpine Way, Boise, ID 8	3709
		Date:
Kok Siak Tang	* *	%
Mailing address:	Block 108C McNair Road, #03-212, Sin	igapore 324108

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	Date:	
Md Zakir Ullah		•••••
Mailing address: The Quintet, Block 44, #14-17, Choa C	Thu Kang Street 64, Singapore 61	3910:
张龙孔	Date: 04/07/20	2/
Xiaosong Zhang		
Mailing address: 6563 E Bend Ridge Street, Boise, ID 83	3716	
	Date:	
Adam L. Olson	17315.	
Mailing address: 5757 E Hootowl Drive, Boise, ID 8371	6	
	Date:	
	Date.	•••••
Mohammad Movdul Islam		
Mohammad Moydul Islam	anore 670467	
Mohammad Moydul Islam Mailing address: Block 467, Segar Road, #04-188, Singa	apore 670467	
Mohammad Moydul Islam	apore 670467 Date:	

***************************************	Date:	
Chao Zhu	hao Zhu failing address: Block 321 Woodlands Street 32, #10-251, Singapore 730321	
Zhigang Yang	Date:	
	Canberra Drive, #12-13, Yishun Sapphire, Singapore 768437	
Merri L. Carlson	Date:	
	397 West Ginger Creek Drive, Boise, ID 83713	
Hui Chin Chong	Date:	
	Corporation Walk, Singapore 618413	
David A. Kewley	Date:	
	33 South Silverpine Way, Boise, ID 83709	
Kok Siak Tang	Date:	
	ck 108C McNair Road, #03-212, Singapore 324108	

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	Date:
Md Zakir Ullah Mailing address: The Quintet, Block 44, #14-17, Choa Chu	
	Date:
Xiaosong Zhang Mailing address: 6563 E Bend Ridge Street, Boise, ID 837	16
Adam L. Olson	Date: 4/2/21
Mailing address: 5757 E Hootowl Drive, Boise, ID 83716	
Mohammad Moydul Islam	Date:
Mailing address: Block 467, Segar Road, #04-188, Singapo	ore 670467
	Date:

	Date:
Chao Zhu	
Mailing address: Block 321 Woodlands Street 32, #10-251,	Singapore 730321
	Date:
Zhigang Yang Mailing address: 48 Canberra Drive, #12-13, Yishun Sapph	
Merri L. Carlson	Date:
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	Date:
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	Date:
David A. Kewley Mailing address: 4683 South Silverpine Way, Boise, ID 837	
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Attorney Docket No. 2269-P15531US (2019-2425.00/US)

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**	Date:	
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Moydul	Date: _	4/14/2021
Mohammad Moydul Islam Mailing address: Block 467, Segar Road, #04-188, Sings	apore 670467	
	Date:	

2

	Date:
Chao Zhu Mailing address: Bl	lock 321 Woodlands Street 32, #10-251, Singapore 730321
Zhigang Yang Mailing address: 48	Date: 3 Canberra Drive, #12-13, Yishun Sapphire, Singapore 768437
Merri L. Carlson Mailing address: 12	Date:
Hui Chin Chong Mailing address: 10	Date:
David A. Kewley Mailing address: 46	Date: Date:
Kok Siak Tang Mailing address: B	Date:lock 108C McNair Road, #03-212, Singapore 324108

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Xiaosong Zhang Mailing address: 6563 E Bend Ridge Street, Boise, ID 837	Date:
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Mailing address: Skies Miltonia, Block 35 Miltonia Close, #11-32, Singapore 768065

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tviaung audices.	12397 West Ginger Creek Drive, Boise, ID 83713
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朱厖	Date: Aug - 749 - 2021
Chao Zhu Mailing address: Block 321 Woodland	
Zhigang Yang Mailing address: 48 Canberra Drive, #	Date:
Merri L. Carlson Mailing address: 12397 West Ginger C	Date: Creek Drive, Boise, ID 83713
Hui Chin Chong Mailing address: 10, Corporation Walk	
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	Date:	<u>14</u>	MAY	Sos	
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David A. Kewley	Date:	************			***************************************
Mailing address: 4683 South Silverpine Way, Boise, ID 837	709				
Kok Siak Tang	Date:	<u> </u>			
Mailing address: Block 108C McNair Road, #03-212, Singa	apore 324	108			

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

SELL, ASSIGN AND TRANSFER to MICRON TECHNOLOGY, INC. ("ASSIGNEE"), a corporation of the State of Delaware, having a place of business at 8000 South Federal Way, Mailstop 1-507, Boise, ID 83707-0006, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements that are disclosed in the Application for United States Letters Patent Serial No. 17/016,002 filed on September 9, 2020, and titled MICROELECTRONIC DEVICES WITH TIERED DECKS OF DIFFERING PILLAR DENSITY AND RELATED METHODS AND SYSTEMS, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent or the legal equivalent thereof that have been or may be filed in the United States and all foreign countries relating to any of such improvements; all original, reexamined and reissued patents that 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 made in the United States;

**AUTHORIZE** the ASSIGNEE to apply for and receive any and all United States and foreign patents relating to such improvements in its own name;

**AUTHORIZE AND REQUEST** the issuing authority to issue any and all United States and foreign patents granted on such improvements to and in the name of the ASSIGNEE;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement or encumbrance adversely affecting the ASSIGNEE'S rights, title, and interest to the rights and property herein conveyed has been or will be made or entered into by the undersigned, and that the undersigned has the full right to convey the same as herein expressed to the ASSIGNEE;

**COVENANT**, when requested and at the expense of the ASSIGNEE, to carry out in good faith the intent and purpose of this Assignment, to execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications relating to any and all such improvements; to execute all rightful oaths, declarations, assignments, powers of attorney and other papers; to communicate to the ASSIGNEE all facts and provide to the ASSIGNEE all documents and things known and accessible to the undersigned relating to such improvements and the history thereof, and testify as to the same in any interference, litigation or other proceeding relating thereto; and generally to do everything possible that the ASSIGNEE shall

ASSIGNOR(S):	
	Date:
Md Zakir Ullah Mailing address: The Quintet, Block 44, #14-17, Choa Chu	
Xiaosong Zhang	Date:
Mailing address: 6563 E Bend Ridge Street, Boise, ID 837	16
	Date:
Adam L. Olson Mailing address: 5757 E Hootowl Drive, Boise, ID 83716	
Mohammad Moydul Islam	Date:
Mailing address: Block 467, Segar Road, #04-188, Singapo	ore 670467
	Date:
Tien Minh Quan Tran Mailing address: Skies Miltonia, Block 35 Miltonia Close,	#11-32. Singapore 768065

	Date:
Chao Zhu Mailing address: Block 321 Woodlands Street 32, #10-251,	Singapore 730321
	Date:
Zhigang Yang Mailing address: 48 Canberra Drive, #12-13, Yishun Sapphi	ire, Singapore 768437
Merri L. Carlson	Date: 3/3//2021
Mailing address: 12397 West Ginger Creek Drive, Boise, IL	0 83713
X2 ( CD. ) _ CU	Date:
Hui Chin Chong Mailing address: 10, Corporation Walk, Singapore 618413	
	Date:
David A. Kewley Mailing address: 4683 South Silverpine Way, Boise, ID 837	709
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	Date:
Merri L. Carlson Mailing address: 12397 West Ginger Creek Drive, Boise, II	D 83713
Hui Chin Chong	Date: 4/10/2021
Hui Chin Chong Mailing address: 10, Corporation Walk, Singapore 618413	
	Date:
David A. Kewley Mailing address: 4683 South Silverpine Way, Boise, ID 83	709
	Date:
Kok Siak Tang Mailing address: Block 108C McNair Road, #03-212, Singa	apore 324108

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Kok Siak Tang Mailing address: Block 108C McNair Road, #03-212, Sing	Date: 5 ⁴⁴ April 202

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**RECORDED: 08/25/2021**