PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ABDELHAKIM ALHUSSIEN	09/11/2020
AYBERK OZTURK	09/18/2020
KARL D. SCHUH	09/01/2020
LUCA BERT	08/12/2020

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:	17855579

CORRESPONDENCE DATA

Fax Number: (650)328-2799

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: 6504335800

Email: escaletta@lowenstein.com LOWENSTEIN SANDLER LLP **Correspondent Name:** Address Line 1: ONE LOWENSTEIN DRIVE

Address Line 4: **ROSELAND, NEW JERSEY 07068**

ATTORNEY DOCKET NUMBER:	34300.1869 (L0257C)
NAME OF SUBMITTER:	PAUL M. KRUEGER
SIGNATURE:	/Paul M. Krueger/
DATE SIGNED:	06/30/2022

Total Attachments: 7

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ASSIGNMENT OF PATENT APPLICATION

For good a	and valuable	consideration	in, the receip	t and suffici	ency of which	ı is hereby
acknowledged, I/v	ve, the unde	rsigned, <u>Ab</u>	delhakim Alh	ussien, Ayb	<u>erk Ozturk, K</u>	arl D. Schuh, and
Luca Bert.						
hereby sell, assig	n, and transf	er to <u>Micn</u>	on Technolog	ıy, Inc.		
a <u>corporation</u>				of	Delaware	
(Type of Assignee: e	g., corporation	, company, parl	nership, univers	sity, etc.)		

having a principal place of business at 8000 South Federal Way, Boise, Idaho 83716-9632,

("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which may have a declaration executed by the undersigned prior hereto or concurrently herewith and is entitled

DATA TRANSFER MANAGEMENT WITHIN A MEMORY DEVICE HAVING MULTIPLE MEMORY REGIONS WITH DIFFERENT MEMORY DENSITIES

said patent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number 16/948,275 filed September 10, 2020,

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, 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; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application and all rights to claim priority to said United States application;

agree that said Assignee may apply for and receive a patent or patents 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, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

9/11/2020	
Date	Abdelhakim Alhussien
Date	Ayberk Ozturk
Date	Karl D. Schuh
Date	Luca Bert

- 2 -

Client Ref. No. 2019-1148.00/US Attorney Docket No.: 34300.257 (L0257)

ASSIGNMENT OF PATENT APPLICATION

For good and valuable consideration, the receipt and su	ifficiency of which is hereby
acknowledged, I/we, the undersigned, <u>Abdelhakim Alhussien,</u>	Ayberk Ozturk, Karl D. Schuh, and
<u>_uca Bert,</u>	
nereby sell, assign, and transfer to <u>Micron Technology, Inc.</u>	
a <u>corporation</u> Type of Assignee: e.g., corporation, company, partnership, university, etc.)	of <u>Delaware</u> ,

having a principal place of business at 8000 South Federal Way, Boise, Idaho 83716-9632,

("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which may have a declaration executed by the undersigned prior hereto or concurrently herewith and is entitled

DATA TRANSFER MANAGEMENT WITHIN A MEMORY DEVICE HAVING MULTIPLE MEMORY REGIONS WITH DIFFERENT MEMORY DENSITIES

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[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number <u>16/948,275</u> filed <u>September 10, 2020</u>,

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, 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; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application and all rights to claim priority to said United States application;

agree that said Assignee may apply for and receive a patent or patents 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, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

Client Ref. No. 2019-1148.00/US

Attorney Docket No.: 34300.257 (L0257)

conveyed h		or other agreement affecting the rights and property herein y the undersigned, and that full right to convey the same as undersigned.
	Each Inventor: Please S	ign and Date Below:
	Date	Abdelhakim Alhussien
	9/18/2020 Date	Light VE Paftive Ayberk Ozturk
	Date	Karl D. Schuh
	 Date	Luca Bert

covenant with said Assignee, its successors, assigns, and legal representatives that no

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covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and properly herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.								
Each Inventor: Pleas	e <u>Sign and Date</u> Below:							
Date	Abdelhakim Alhussien							
Date	Ayberk Ozturk							
<u>i - Sakar∉ar ⊋eus</u> Date	Karl D. Schuh							
Date	Luca Bert							

Attorney Docket No.: 34300.257 (L0257)

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SSIGNMENT OF PATENT APPLIC	CATION		
For good and valuable consideration	n, the receipt and suf	ficiency c	of which is hereby
acknowledged, I/we, the undersigned, Abd			
Luca Bert,			
hereby sell, assign, and transfer to <u>Micro</u>	<u>n Technology, Inc.</u>		
a corporation		of Delay	ware ,
(Type of Assignee: e.g., corporation, company, partr			
having a principal place of business at 80	00 South Federal W	ay, Boise	<u>. Idaho 83716-9632</u> ,
("Assignee"), and its successors, assigns, a for the United States and all foreign countries are disclosed in the application (provisional have a declaration executed by the undersimple DATA TRANSFER MANAGEMENT." MEMORY REGIONS WI	es, in and to any and or non-provisional) t gned prior hereto or WITHIN A MEMO	or the Ur concurre RY DEV	nited States patent which may ntly herewith and is entitled ICE HAVING MULTIPLE
said patent application also identified as fol			
[I/we hereby authorize an attorney number and filing date of said pate	or agent for said Ass	signee to i	insert below the application
United States Patent Application Number_	16/948,275	filed_	September 10, 2020
and in and to said application (provisional or provisional applications, utility applications, applications, continued prosecution applications	or non-provisional) a design applications	, aivisioni	al applications, continuation

applications, renewal applications, reissue applications, reexaminations, extensions, 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; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application and all rights to claim priority to said United States application;

agree that said Assignee may apply for and receive a patent or patents 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, the undersigned will execute all provisional applications, nonprovisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers, communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

Date Abdelhakim Alhussien

Date Ayberk Ozturk

Date Karl D. Schuh

unt ("Yoo _____

Luca, Ben