#### 12/13/2019 505820250

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5867079

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
GIUSEPPE D'ELISEO	12/10/2019
CARMINANTONIO MANGANELLI	12/10/2019
PAOLO PAPA	12/10/2019
YOAV WEINBERG	12/11/2019
GIUSEPPE FERRARI	12/10/2019
MASSIMO LACULO	12/10/2019
LALLA FATIMA DRISSI	12/10/2019

#### **RECEIVING PARTY DATA**

Name:	Micron Technology, Inc.
Street Address:	8000 South Federal Way
Internal Address:	
City:	Boise
State/Country:	United States of America
Postal Code:	83707

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16713552

#### **CORRESPONDENCE DATA**

Fax Number:

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: 312-456-8400 Email: gtipmail@gtlaw.com

GREENBERG TRAURIG, LLP (SV) **Correspondent Name:** Address Line 1: 77 WEST WACKER DRIVE, SUITE 3100 Address Line 2: INTELLECTUAL PROPERTY DEPARTMENT

Address Line 4: CHICAGO, ILLINOIS 60601

ATTORNEY DOCKET NUMBER:	120426-196000/US
NAME OF SUBMITTER:	EMA MAJIC
SIGNATURE:	/Ema Majic/

DATE SIGNED:	12/13/2019	
Total Attachments: 14		
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TO ALL WHOM IT MAY CONCERN, be it known that for good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, as the below named inventor of an invention entitled:

#### PIVOT APPROACH FOR RANDOM READ PERFORMANCES ON WIDE HOST ADDRESS RANGE

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11/11/15	in ear	descr	mina.	e t	113"

- I the attached application, or
- United States Patent Application Serial Number ... filed on \_.

THE UNDERSIGNED does hereby:

SELL, ASSIGN AND TRANSFER to Micron Technology, Inst., a cospersition organized and existing under the laws of the State of Delaware, and having a pince of business of 8000 South Federal Way. Boise, ID \$3707, US (hereinafter referred to as ASSIGNEE), which is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefore in the United States and in any and all foreign countries, 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; 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;

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.

Legal Name	Last Name	First Name	Middle Name
of Inventor	D'Eliseo	Giuseppe	
Residence	City & State/Region	Country	Country of Cilizenship
& Citizenship	Caserta	II	IT
Mailing	Street	City & State/Region	Postal Code & Country
Address	Viale Delle Querce, 7	Caserta	81100, IT

IN TESTIMONY WHEREOF, I have hereunto set my hand to	his Loth day of DECEMBER 2019.
Grape D'Eliseo	Date: 10 DECEMBEN 201
ACKNOWI	LEDGMENT
On this 20th day of DECEMBEA	
appeared <u>Gittseppe D'Eliseo</u> , known to me	to be the person whose name is subscribed to the
foregoing instrument, and acknowledged to me that s/he exec	outed the same.
IN WITNESS WHEREOF, I have set my hand the day and y	ear as above written.
WITNESS IN ALBERTO SASSARA Printed Name	MING Sasser
WITNESS 2: Lut 61 ESPOS 170 Printed Name	Signature SAL

TO ALL WHOM IT MAY CONCERN, be it known that for good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, as the below named inventor of an invention entitled:

#### PIVOT APPROACH FOR RANDOM READ PERFORMANCES ON WIDE HOST ADDRESS RANGE

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which	18	desci	ribe.	1155

- I the attached application, or
- United States Patent Application Serial Number \_ filed on \_,

THE UNDERSIGNED does hereby:

SELL, ASSIGN AND TRANSFER to Micron Technology, Inc., a corporation organized and existing under the laws of the State of Delayare, and having a place of fusiness at \$000 South Federat Way. Boise: 13:83707, US (hereinafter referred to as ASSIGNEE), which is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefore in the United States and in any and all foreign countries, 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; 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 potents 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:

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;

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

Legal Name	Last Name	First Name	Middle Name
of Inventor	Manganelli	Carminantonio	
Residence	City & State/Region SAN GIORGIO DEL SANNIO (Benevento)	Country	Country of Citizenship
& Citizenship		IT	[T
Mailing	Street	City & State/Regies SAN GIORGIO DEL SANNIO (Benevento)	Postal Code & Country
Address	VIA MICHELE BOCCHINI		82018, IT

. age 2 012	Auomey Docket No. 120426-19600
IN TESTIMONY WHEREOF, I have hereunto set my han	ad this <u>10<sup>th</sup> day of <b>DECLIMM</b> 2019</u> .
AL HAV Carminantonio Manganelli	Date: 10 DEC 2019
ACKNON	<u>WLEDGMENT</u>
On this 43th day of December	. 2019, before me, the undersigned, personally
appeared <u>Carminantonio Manganelli</u>	known to me to be the person whose name is
subscribed to the foregoing instrument, and acknowledged	to me that s/he executed the same.
IN WITNESS WHEREOF, I have set my hand the day and	f year as above written.
WITNESS 1: ACBERTO SASSARA Printed Name	AUT Jassa Signature
WITNESS 2: Lote & ESPOS 170	

TO ALL WHOM IT MAY CONCERN, be it known that for good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, as the below named inventor of an invention entitled:

#### PIVOT APPROACH FOR RANDOM READ PERFORMANCES ON WIDE HOST ADDRESS RANGE

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was the transferred appropriately (	M	the	attached	app	lication,	01
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United States Patent Application Serial Number\_filed on \_.

THE UNDERSIGNED does hereby:

SELL, ASSIGN AND TRANSFER to Micros Technology, Inc. a corporation organized and existing under the laws of the State of Delaware, and laying a place of business at 8000 South Folcoal Way. Boise, 10-83707, US (hereinafter referred to as ASSIGNEE), which is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefore in the United States and in any and all foreign countries, 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; 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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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.

Legal Name	Last Name	First Name	Middle Name
of Inventor	Papa	Paolo	
Residence	City & State/Region	Country	Country of Citizenship
& Citizenship	Napoli	IT	IT
Mailing	Street	City & State/Region	Postal Code & Country
Address	Corso Arnaldo Lucci, 116	Napoli	80142, IT

IN TESTAMONY WHEREOF, Thave hereunto set my hand to Paolo Papa	his 15th day of DECEMBER 2019.  Date: 10 DECEMBER 219
ACKNOWI	EDGMENT
On this 40th day of DECEMBEL	, 2019, before mo, the undersigned, personally
appeared Paolo Papa known to me	to be the person whose name is subscribed to the
foregoing instrument, and acknowledged to me that s/he exec	uted the same.
IN WITNESS WHEREOF, I have set my hand the day and ye	ar as above written.
WITNESS 1: ACBERTO SASSARA Printed Name	Min James
WITNESS 2: LUIGI CSPS /TO Printed Name	Las Opla
Printed Name	Signature

TO ALL WHOM IT MAY CONCERN, be it known that for good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, as the below named inventor of an invention entitled:

# PIVOT APPROACH FOR RANDOM READ PERFORMANCES ON WIDE HOST ADDRESS RANGE

WINCH IS UC	Scribca III.
	the attached application, or
	United States Patent Application Serial Number _ filed on _

THE UNDERSIGNED does hereby:

rybiob is described in

SELL, ASSIGN AND TRANSFER to Micron Technology, Inc., a corporation organized and existing under the laws of the State of Delaware, and having a place of business at 8000 South Federal Way, Boise, ID 83707, US (hereinafter referred to as ASSIGNEE), which is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefore in the United States and in any and all foreign countries, 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; 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;

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

Legal Name	Last Name	First Name	Middle Name
of Inventor	Weinberg	Yoav	
Residence	City & State/Region Thornhill ON	Country	Country of Citizenship
& Citizenship		CA	CA
Mailing	Street	City & State/Region	Postal Code & Country
Address	35 Katerina Ave	Thornhill ON	L4J 8H5, CA

Page 2 of 2	Atton	wy Docket No. 120426-196900/US
DETENTIONEY WHEREOF, I have become set my found th	ns	day of OCC07864 2039
A José Van Weinberg	Flore:	26137 (2 / 1)

### ACKNOWLEDGMENT

On this	day of DE/KOLEK	
appeared	Youv Weinberg know	er to me to be the person whose name is subscribed to the
foregoing instrumen	sed acknowledged to ose that	The amount its same.
in withess weed	REOF, I have set my boorf the d	ху энд унш нь явоус жэйгээ
WITNESS (:	Frinted Name	Nigrasse
W339888 2:	Prissing Name	Zignotine:

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#### PIVOT APPROACH FOR RANDOM READ PERFORMANCES ON WIDE HOST ADDRESS RANGE

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which	18	deserr	ned.	1500

- II the attached application, or
- 🔘 United States Patent Application Serial Number \_ filed on \_

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

Legal Name	Last Name	First Name	Middle Name
of Inventor	Perrari	Giuseppe	
Residence	City & State/Region	Country	Country of Citizenship
& Citizenship	Napoli	IT	IT
Mailing Address	Street Via Mario Pomílio 9 Parco Vesuvio A/F	City & State/Region Napoli	Postal Code & Country 80147, JT

Page	2	of	7
a. Chipagnia	بند	17.7	á

Attorney Docket No. 120426-196000/US

IN TESTIMONY WHEREOF, I have hereunto set my hand	his <u>Lo<sup>th</sup></u> day of <u>DECEMBEN2019</u> .  Date: <u>LO DECEMBEN2019</u>
<u>ACKNOW</u>	<u>LEDGMENT</u>
On this 20th day of DECEMBEA	3 2019, before me, the undersigned, personally
appeared Ginseppe Ferrari , known to me	
foregoing instrument, and acknowledged to me that s/he exec	
IN WITNESS WHEREOF, I have set my hand the day and y	ear as above written,
WITNESS I: GIUS & Printed Name	Chill Slag
WITNESS 2: VABIO BARBIERI Printed Name	Daws Borbien

TO ALL WHOM IT MAY CONCERN, be it known that for good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, as the below named inventor of an invention entitled:

## PIVOT APPROACH FOR RANDOM READ PERFORMANCES ON WIDE HOST ADDRESS RANGE

which	îs	described	in:
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		400001000	1111

- the attached application, or
- ☐ United States Patent Application Serial Number \_ filed on \_

#### THE UNDERSIGNED does hereby:

SELL, ASSIGN AND TRANSFER to Micros Technology, Inc. a corporation organized and existing under the laws of the State of Delaware, and having a place of business at 8000 South Federal Way. Beise, ID 33707, US (hereinafter referred to as ASSIGNEE), which is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefore in the United States and in any and all foreign countries, 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; 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;

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

Legal Name	Last Name	First Name	Middle Name
of Inventor	Lacule	Massimo	
Residence & Citizenship	City & State/Region San Marco Evangelista(CE)	Country IT	Country of Citizenship
Mailing	Street	City & State/Region San Marco Evangelista(CB)	Postal Code & Country
Address	via Luxembour, 35		81020, IT

IN TESTIMONY WHEREOF, I have hereunto set my hand this Loth day of Delivority, 2019.

Canho Laculo Date: LODICEMBER 2019.

Massimo Laculo

#### ACKNOWLEDGMENT

On this 10th day of DECEMBEA	, 2019, before me, the undersigned, personally
appeared <u>Massimo Laculo</u> , known to me	to be the person whose name is subscribed to the
foregoing instrument, and acknowledged to me that s/he exec	ruted the same.
IN WITNESS WHEREOF, I have set my hand the day and ye	ear as above written.
WITNESS 1: ALBERTO SASSARA Printed Name	Signature Josseus
WITNESS 2: LUIGI ESPOSTO Printed Name	Ly 57/4 Signature

TO ALL WHOM IT MAY CONCERN, be it known that for good and valuable consideration, the receipt, sufficiency and adequacy of which are hereby acknowledged, as the below named inventor of an invention entitled:

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which	10	described in:

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- ☐ United States Patent Application Serial Number \_ filed on \_

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

Legal Name	Last Name	First Name	Middle Name
of Inventor	Drissi	Lalia	Fatima
Residence	City & State/Region	Country	Country of Citizenship
& Citizenship	Ottaviano(NA)	IT	
Mailing	Street	City & State/Region	Postal Code & Country
Address	via Maggiore Buscaglin, 6	Ottaviano(NA)	80044, IT

**RECORDED: 12/13/2019** 

<u>Vollo Felmo Brissi</u> Lalla Fatima Drissi	Date: 10 DE CEMBER 2019
<u>ACKN</u>	OWLEDGMENT
On this 10th day of DECRUBEN	. , 2019, before me, the undersigned, personally
appeared <u>Lalla Fatimă Drissi</u> , known t	to me to be the person whose name is subscribed to the
foregoing instrument, and acknowledged to me that s/hc	e executed the same.
IN WITNESS WHEREOF, I have set my hand the day a	and year as above written.
WITNESS IS ABERTO SASSARA Printed Name	MAR James Signature
WITNESS 2: Lin & SSPS/TO Printed Name	_ hy two
ringe name	Signature

IN TESTIMONY WHEREOF, I have hereunto set my hand this Lota day of Dil Change 2019.