

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4885080

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KISHORE KUMAR MUCHHERLA	03/15/2018
PETER SEAN FEELEY	03/06/2018
ASHUTOSH MALSHE	03/15/2018
SAMPATH RATNAM	03/16/2018
HARISH SINGIDI	03/15/2018
VAMSI PAVAN RAYAPROLU	03/15/2018
RECEIVING PARTY DATA	
Name:	MICRON TECHNOLOGY, INC.
Street Address:	8000 SO. FEDERAL WAY
City:	BOISE
State/Country:	IDAHO
Postal Code:	83716-9632
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15924951
CORRESPONDENCE DATA	
Fax Number:	(612)339-3061
<i>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.</i>	
Phone:	612-373-6900
Email:	request@slwip.com
Correspondent Name:	SCHWEGMAN LUNDBERG & WOESSNER, P.A.
Address Line 1:	P.O. BOX 2938
Address Line 4:	MINNEAPOLIS, MINNESOTA 55402-0938
ATTORNEY DOCKET NUMBER:	303.G52US1
NAME OF SUBMITTER:	JULIE A. NELSON
SIGNATURE:	/ Julie A. Nelson /
DATE SIGNED:	03/27/2018
Total Attachments: 17	

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RECORDATION FORM COVER SHEET
PATENTS ONLY

Atty Ref/Docket No.: 303.G52US1

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Kishore Kumar Muchherla, Peter Sean Feeley, Ashutosh
Malshe, Sampath Ratnam, Harish Singidi, Vamsi Pavan
Rayaprolu

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: March 15, 2018, March 6, 2018, March 15,
2018, March 16, 2018, March 15, 2018, March 15, 2018

2. Name and address of receiving party(ies):

Name: Micron Technology, Inc.

Street Address: 8000 So. Federal Way

City: Boise State: ID Zip: 83716-9632

Country: United States of America

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

Serial No. 15/924,951

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence
concerning document should be mailed:

Name: David R. Cochran

Address:

Schwegman Lundberg & Woessner, P.A.
P.O. Box 2938
Minneapolis, Minnesota 55402--0938

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):\$ 0.00

☐ Enclosed

☐ Authorized to be charged to deposit account 19-
0743

8. Please charge any additional fees or credit any over
payments to our Deposit Account No.: 19-0743

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of
the original document.

David R. Cochran/Reg. No. 46,632

Name of Person Signing

David R. Cochran

Signature

26 March 2018

Date

Total number of pages including cover sheet: 17

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Mail Stop Assignment Recordation Services
P.O. Box 1450
Alexandria, VA 22313-1450

PATENT
REEL: 045359 FRAME: 0914

ASSIGNMENT

WHEREAS, Kishore Kumar Muchherla, Peter Sean Feeley, Ashutosh Malshe, Sampath Ratnam, Harish Singidi and Vamsi Pavan Rayaprolu (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention"); as described in the patent application filed on March 19, 2018, assigned US application serial number 15/924,951 and titled TRACKING DATA TEMPERATURES OF LOGICAL BLOCK ADDRESSES,

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged by the Undersigned, the Undersigned do hereby irrevocably and unconditionally:

CONVEY, ASSIGN, AND TRANSFER to Micron Technology, Inc. (the "Assignee"), a corporation of the State of Delaware, having a place of business at 8000 So. Federal Way, Boise, ID 83716-9632, the Undersigned's entire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the invention which is disclosed in the above-identified application or applications;

such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such Invention;

including the right to claim priority to the above-identified patent application or applications in relation to subject matter based in whole or in part on the above-identified patent application or applications and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-identified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such Invention to the Assignee;

AUTHORIZE AND REQUEST that any attorney associated with U.S. Patent and Trademark Office (USPTO) Customer No. 73115 may (directly or through his/her designee) delete, insert, or alter any information related to the above-identified patent application or applications or any of the foregoing, after execution of this Assignment;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall 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 without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the Undersigned shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the Invention; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the Invention; (3) communicate to the Assignee all facts known to the Undersigned relating to the Invention and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for the Invention; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such Invention in the Assignee, or for securing, maintaining and enforcing proper patent protection for the Invention;

COVENANT, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions. To the extent that any such provision is found to be unenforceable, the Undersigned, when requested and without compensation shall act in good faith to substitute for such provision a new provision with content and purpose as close as possible to the provision deemed unenforceable.

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives, and successors of the Undersigned, and is to extend to the benefit of the successors, assigns, and nominees of the Assignee.

AGREED as of the date of my signature below:

Assignment

Assignors: Kishore Kumar Muchherla et al.

Title: TRACKING DATA TEMPERATURES OF LOGICAL BLOCK ADDRESSES

Page 3 of 8

Docket No: 303.G52US1
Client Ref. No. 2017-0821.00/US

Assignor:

(Signature):

Kishore Kumar Muchherla

Name: Kishore Kumar Muchherla

City/State: Fremont, CA

Date:

03/15/2018

STATE OF

California

COUNTY OF

Santa Clara

On this 15 day of March, 2018 before me,

Suzanne A. McHugh, personally appeared Kishore Kumar Muchherla

proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

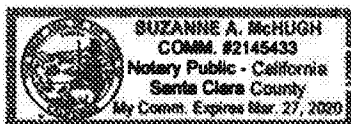
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[SEAL]

Suzanne A. McHugh

Notary Public



Assignor:

(Signature):

Name: Peter Sean Feeley

City/State: Boise, ID

Date: _____

STATE OF _____)

)ss

COUNTY OF _____)

On this _____ day of _____, 20____ before me personally appeared Peter Sean Feeley, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public



Assignment

Assignors: Kishore Kumar Muchherla et al.

Title: TRACKING DATA TEMPERATURES OF LOGICAL BLOCK ADDRESSES

Page 5 of 8

Docket No: 303.G52US1
Client Ref. No. 2017-0821.00/US

Assignor:

(Signature):

Name: Ashutosh Malshe

City/State: Fremont, CA

Date:

03/15/2018

STATE OF

California

COUNTY OF

Santa Clara

On this 15 day of March, 2018 before me,
Suzanne A. McHugh personally appeared Ashutosh Malshe, who
proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the
within instrument and acknowledged to me that he executed the same in his authorized capacity, and
that by his signature on the instrument the person, or the entity upon behalf of which the person acted,
executed the instrument.

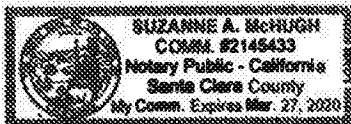
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

[SEAL]

Suzanne A. McHugh

Notary Public



Assignment

Assignors: Kishore Kumar Muchheria et al.

Title: TRACKING DATA TEMPERATURES OF LOGICAL BLOCK ADDRESSES

Page 6 of 8

Docket No: 303.G52US1
Client Ref. No. 2017-0821.00/US

Assignor:

(Signature):

[Signature]

Name: Sampath Ratnam

City/State: Boise, ID

Date:

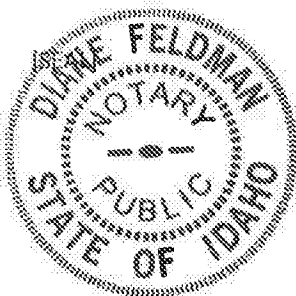
03/16/18

STATE OF Idaho

)ss

COUNTY OF Ada

On this 16 day of March, 20 18 before me personally appeared Sampath Ratnam, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



[Signature]

Notary Public

Commission Expires 05/02/19

Assignment

Assignors: Kishore Kumar Muchherla et al.

Title: TRACKING DATA TEMPERATURES OF LOGICAL BLOCK ADDRESSES

Page 7 of 8

Docket No: 303.G52US1
Client Ref. No. 2017-0821.00/US

Assignor:

(Signature):

S. Harish Reddy

Name: Harish Singidi

City/State: Fremont, CA

Date:

03/15/2018

STATE OF

Calif.

COUNTY OF

Santa Clara

On this 15 day of March 2018 before me,
Suzanne A. McNugh personally appeared Harish Singidi who
proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the
within instrument and acknowledged to me that he executed the same in his authorized capacity, and
that by his signature on the instrument the person, or the entity upon behalf of which the person acted,
executed the instrument.

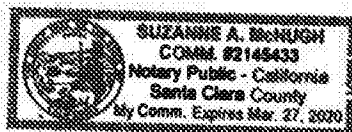
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

[SEAL]

Suzanne A. McNugh

Notary Public



Assignment

Assignors: Kishore Kumar Muchheria et al.

Title: TRACKING DATA TEMPERATURES OF LOGICAL BLOCK ADDRESSES

Page 8 of 8

Docket No: 303.G32US1
Client Ref. No. 2017-0821.00/US

Assignor:

(Signature):

Vamsi Pavan Rayaprolu

Name: Vamsi Pavan Rayaprolu

City/State: San Jose, CA

Date:

03/15/2018

STATE OF

California

COUNTY OF

Santa Clara

On this 15 day of March, 2018 before me,

Suzanne A. McHugh personally appeared Vamsi Pavan Rayaprolu who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

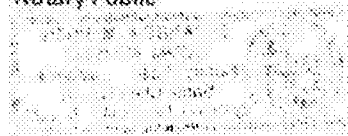
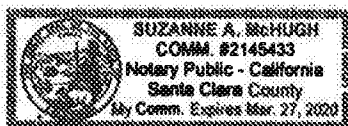
I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[SEAL]

Suzanne A. McHugh

Notary Public



ASSIGNMENT

WHEREAS, Kishore Kumar Muchherla, Peter Sean Feeley, Ashutosh Malshe, Sampath Ratnam, Harish Singidi and Vamsi Pavan Rayaprolu (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention"); as described in the patent application filed on March 19, 2018, assigned US application serial number 15/924,951, and titled TRACKING DATA TEMPERATURES OF LOGICAL BLOCK ADDRESSES.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged by the Undersigned, the Undersigned do hereby irrevocably and unconditionally:

CONVEY, ASSIGN, AND TRANSFER to Micron Technology, Inc. (the "Assignee"), a corporation of the State of Delaware, having a place of business at 8000 So. Federal Way, Boise, ID 83716-9632, the Undersigned's entire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the Invention which is disclosed in the above-identified application or applications;

such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such Invention;

including the right to claim priority to the above-identified patent application or applications in relation to subject matter based in whole or in part on the above-identified patent application or applications and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-identified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such Invention to the Assignee;

AUTHORIZE AND REQUEST that any attorney associated with U.S. Patent and Trademark Office (USPTO) Customer No. 73115 may (directly or through his/her designee) delete, insert, or alter any information related to the above-identified patent application or applications or any of the foregoing, after execution of this Assignment;

Assignment

Assignors: Kishore Kumar Muchherla et al.

Title: TRACKING DATA TEMPERATURES OF LOGICAL BLOCK ADDRESSES

Page 2 of 8

Docket No: 303.G52US1

Client Ref. No. 2017-0821.00/US

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall 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 without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the Undersigned shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the Invention; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the Invention; (3) communicate to the Assignee all facts known to the Undersigned relating to the Invention and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for the Invention; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such Invention in the Assignee, or for securing, maintaining and enforcing proper patent protection for the Invention;

COVENANT, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions. To the extent that any such provision is found to be unenforceable, the Undersigned, when requested and without compensation shall act in good faith to substitute for such provision a new provision with content and purpose as close as possible to the provision deemed unenforceable.

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives, and successors of the Undersigned, and is to extend to the benefit of the successors, assigns, and nominees of the Assignee.

AGREED as of the date of my signature below:

Assignment

Assignors: Kishore Kumar Muchherla et al.

Title: TRACKING DATA TEMPERATURES OF LOGICAL BLOCK ADDRESSES

Page 3 of 8

Docket No: 303.G52US1
Client Ref. No. 2017-0821.00/US

Assignor:

(Signature):

Name: Kishore Kumar Muchherla

City/State: Fremont, CA

Date: _____

STATE OF _____)

COUNTY OF _____)

On this _____, day of _____, 2018 before me,
_____, personally appeared _____, who
proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the
within instrument and acknowledged to me that he executed the same in his authorized capacity, and
that by his signature on the instrument the person, or the entity upon behalf of which the person acted,
executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

[SEAL]

Notary Public

Assignment

Assignors: Kishore Kumar Muchherla et al.

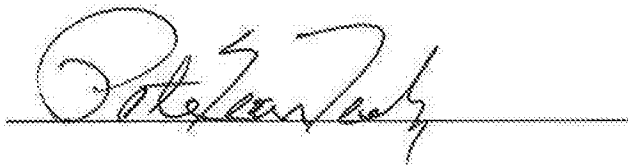
Title: TRACKING DATA TEMPERATURES OF LOGICAL BLOCK ADDRESSES

Page 4 of 8

Docket No. 303.G52US1
Client Ref. No. 2017-0821.00/US

Assignor:

(Signature):



Name: Peter Sean Feeley

City/State: Boise, ID

Date:

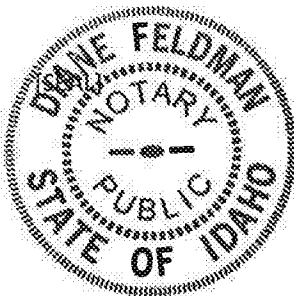
3/6/18

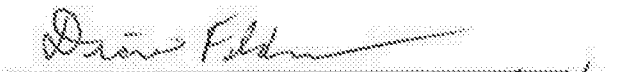
STATE OF Idaho)

)ss

COUNTY OF Ada)

On this 6th day of March, 2018 before me personally appeared Peter Sean Feeley, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.




Commission Expires: 05/02/19
Notary Public

Assignment

Assignors: Kishore Kumar Muchherla et al.

Title: TRACKING DATA TEMPERATURES OF LOGICAL BLOCK ADDRESSES

Page 5 of 8

Docket No: 303.G52US1
Client Ref. No. 2017-0821.00/US

Assignor:

(Signature):

Name: Ashutosh Malshe

City/State: Fremont, CA

Date: _____

STATE OF _____)

COUNTY OF _____)

On this _____, day of _____, 2018 before me,
_____, personally appeared _____, who
proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the
within instrument and acknowledged to me that he executed the same in his authorized capacity, and
that by his signature on the instrument the person, or the entity upon behalf of which the person acted,
executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

[SEAL]

Notary Public

Assignment

Assignors: Kishore Kumar Muchherla et al.

Title: TRACKING DATA TEMPERATURES OF LOGICAL BLOCK ADDRESSES

Page 6 of 8

Docket No: 303.G52US1
Client Ref. No. 2017-0821.00/US

Assignor:

(Signature):

Name: Sampath Ratnam

City/State: Boise, ID

Date: _____

STATE OF _____)

)ss

COUNTY OF _____)

On this _____ day of _____, 20____ before me personally appeared Sampath Ratnam, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

Assignment

Assignors: Kishore Kumar Muchherla et al.

Title: TRACKING DATA TEMPERATURES OF LOGICAL BLOCK ADDRESSES

Page 7 of 8

Docket No: 303.G52US1
Client Ref. No. 2017-0821.00/US

Assignor:

(Signature):

Name: Harish Singidi

City/State: Fremont, CA

Date: _____

STATE OF _____)

COUNTY OF _____)

On this _____, day of _____, 2018 before me, _____, personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[SEAL]

Notary Public

Assignment

Assignors: Kishore Kumar Muchherla et al.

Title: TRACKING DATA TEMPERATURES OF LOGICAL BLOCK ADDRESSES

Page 8 of 8

Docket No: 303.G52US1
Client Ref. No. 2017-0821.00/US

Assignor:

(Signature):

Name: Vamsi Pavan Rayaprolu

City/State: San Jose, CA

Date: _____

STATE OF _____)

COUNTY OF _____)

On this _____, day of _____, 2018 before me, _____, personally appeared _____, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

[SEAL]

Notary Public