

08-04-2004

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office



102806010

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Kang Yong Kim

8.3.04

Execution Date(s) 07/28/04

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: Micron Technology, Inc.

Internal Address: _____

Street Address: 8000 S. Federal Way

City: Boise

State: Idaho

Country: United States

Zip: 83707-0006

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

4. Application or patent number(s):

A. Patent Application No.(s)
10/848,261

☐ This document is being filed together with a new application.
B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Abhijat Parikh, Esq.

Internal Address: Thorp Reed & Armstrong, LLP

Street Address: One Oxford Centre, 14th Floor

301 Grant Street

City: Pittsburgh

State: PA Zip: 15219-1425

Phone Number: 412-394-2478

Fax Number: 412-394-2555

Email Address: aparikh@thorpreed.com

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40

- ☐ Authorized to be charged by credit card
☐ Authorized to be charged to deposit account
☒ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 20-0888

Authorized User Name _____

9. Signature:

Abhijat Parikh
Signature

30 July 2004

Date

Abhijat Parikh

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 5

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

08/04/2004 LNUELLER 00000011 10848261

01 FC:8021

40.00 OP

PATENT
REEL: 015632 FRAME: 0883

COPY

PATENT

Attorney's Docket No. DB001114-000

For: ☒ U.S. and/or ☒ Foreign Rights
For: ☒ U.S. Application or
☐ U.S. Provisional Application
For: ☐ U.S. Patent
For: ☒ PCT Application
By: ☒ Inventor(s) or ☐ Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR (Inventor):

Kang Yong Kim
(type or print name of inventors)

2401 Apple St., #E204
Boise, ID 83706-5187 S.Korea
Address Nationality

hereby sells, assigns and transfers to

ASSIGNEE:

Micron Technology, Inc.
(type or print name(s) of ASSIGNEE(S))

8000 S. Federal Way
Boise, ID 83707-0006
Address

Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

- ☒ the entire right, title and interest
☐ an undivided _____ percent (_____ %) interest

for the United States and its territorial possession

(check the following box, if foreign rights are also to be assigned)

☒ and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the invention entitled:

DLL PHASE DETECTION USING ADVANCED PHASE EQUAL

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in

- (a) ☐ U.S. patent application executed on even date herewith
- (b) ☐ U.S. patent application executed on _____
- (c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention.
 - ☐ Express mail label no. _____
Mailed: _____
 - ☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.
- (d) ☒ U.S. application no. 10/848,261 filed on 18 May 2004
- (e) ☐ International application no. PCT/_____/_____
filed on _____
- (f) ☐ U.S. patent no. _____ issued _____
 - ☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (g), if foreign application(s) is also being assigned)

- (g) ☒ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letter Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We have hereunto set hand and seal this 7/28/04.
Date of Signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Kang Yong Kim
(type name of inventor)

Kang Yong Kim
Signature of INVENTOR

☒ Notarization or Legalization Page Added.

Note: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

NOTARIZATION OR LEGALIZATION ACCOMPANYING ASSIGNMENT

NOTE: Executing this page is not required for assignment, and is only prima facie evidence of execution, 35 USC 261.

Details of Country United States of America

And place of signing of assignment 8000 S. Federal Way
Boise, Id 83707

Before me this 28th day of July 20 04, personally appeared the above named individuals(s), to me known to be the person(s) who is are described in, and who executed the foregoing assignment instrument and acknowledged to me that

☒

he

☒

his

☐

she

executed the same of

☐

her

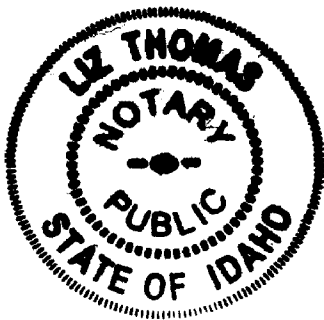
☐

they

☐

their

own free will for the purpose therein expressed.



Liz Thomas

Notary Public or Consular Officer of the
United States of America

FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 40.00)

Complete if Known

Application Number	10/848,261
Filing Date	18 May 2004
First Named Inventor	Kang Yong Kim
Examiner Name	Not Yet Assigned
Art Unit	2116
Attorney Docket No.	DB001114-000

METHOD OF PAYMENT (check all that apply)

☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None☒ Deposit Account:Deposit
Account
Number
Deposit
Account
Name

20-0888

Thorp Reed & Armstrong

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments☒ Charge any additional fee(s) or any underpayment of fee(s)☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code	Small Entity Fee Code	Fee (\$)	Fee (\$)	Fee Description	Fee Paid
1001	2001	770	385	Utility filing fee	
1002	2002	340	170	Design filing fee	
1003	2003	530	265	Plant filing fee	
1004	2004	770	385	Reissue filing fee	
1005	2005	160	80	Provisional filing fee	
SUBTOTAL (1)					(\$ 0)

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent Claims	-20** =	X	
Multiple Dependent	-3** =	X	

Large Entity Fee Code	Small Entity Fee Code	Fee (\$)	Fee (\$)	Fee Description	Fee Paid
1202	2202	18	9	Claims in excess of 20	
1201	2201	86	43	Independent claims in excess of 3	
1203	2203	290	145	Multiple dependent claim, if not paid	
1204	2204	86	43	** Reissue independent claims over original patent	
1205	2205	18	9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)					(\$ 0)

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 40)

SUBMITTED BY

Name (Print/Type)

Abhijat Parikh

Registration No.
(Attorney/Agent)

49,086

(Complete (if applicable))

Telephone 412-394-2478

Signature

Date

30 July 2004

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

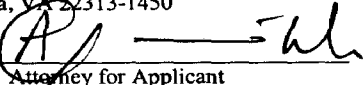
SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PATENT
REEL: 015632 FRAME: 0888

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Director of the US Patent and Trademark Office
P. O. Box 1450
Alexandria, VA 22313-1450


Attorney for Applicant

Date: July 30, 2004

Attorney Docket No.: DB001114-000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Kang Yong Kim)	Examiner:	Not yet assigned
Serial No.:	10/848,261)	Art Unit:	2116
Filed:	18 May 2004)		
Entitled:	DLL PHASE DETECTION USING ADVANCED PHASE EQUAL			

TRANSMITTAL LETTER

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Director of the US Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

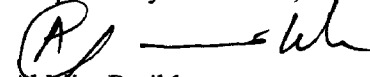
Dear Sir:

Enclosed for filing in the above-referenced patent application are the following:

- Recordation Form Cover Sheet (PTO-1595) x2;
- copy of executed Assignment of Invention, four (4) pages, including 1 notarization sheet;
- Fee Transmittal form (PTO/SB/17) x2; and
- a check in the amount of \$40 to cover the fee for recordation of the Assignment.

Also enclosed is a return postcard. Please date stamp the postcard and return it to us to acknowledge receipt of these documents. The Commissioner is hereby authorized to charge any underpayment or credit any overpayment to our Deposit Account No. 20-0888. A duplicate copy of this transmittal letter is enclosed.

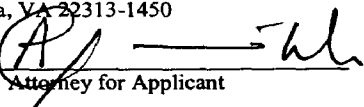
Respectfully submitted,


Abhijit Parikh
Reg. No. 49,086
THORP REED & ARMSTRONG
One Oxford Centre, 14th Floor
Pittsburgh, PA 15219-1425
(412) 394-2478
Attorneys for Applicant

Dated: 30 July 2004

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Alexandria, VA 22313-1450

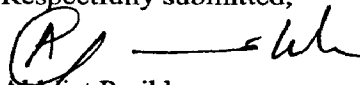
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Respectfully submitted,


Abhijit Parikh
Reg. No. 49,086
THORP REED & ARMSTRONG
One Oxford Centre, 14th Floor
Pittsburgh, PA 15219-1425
(412) 394-2478
Attorneys for Applicant

Dated: 30 July 2004