

06-10-1998

FORM PTO-1596  
1-31-92

RECORD

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

DOCKET NO.: 1033-300 (50100-374) F

100733546

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereto:

## 1. Name of conveying party(ies):

Nick KEPLER, Basab BANDYOPADHYAY, Olov KARLSSON, Larry WANG, Effiong IBOK, Christopher F. LYONS

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

## 3. Nature of conveyance:

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

Execution Date: May 8, 11, 13, 15, and 19, 1998

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

Name: Advanced Micro Devices, Inc.

Internal Address: \_\_\_\_\_

Street Address: One AMD Place, P.O. Box 3453

City: Sunnyvale State/Country: CALIFORNIA ZIP: 94088-3453

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

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

If the document is being filed together with a new application, the execution date of the application is: May 8, 11, 13, 15, and 19, 1998

A. Patent Application No(s).

B. Patent No(s).

Additional numbers attached? ☐ Yes ☒ No

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

Name: McDERMOTT, WILL &amp; EMERY

Internal Address: \_\_\_\_\_

Street Address: 99 Canal Center Plaza, Suite 300

City: Alexandria State: VA ZIP: 22314

## 6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41)..... \$40.00

☐ Enclosed☒ Authorized to be charged to deposit account

## 8. Deposit account number:

500417

06/10/1998 INQUIRY 00000099 500417 09087662

DO NOT USE THIS SPACE

01 FC:581 40.00 CH

## 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.

Michael A. Messina, 33,424

Name and Registration No. of Person Signing

*Michael A. Messina*

Signature

June 1, 1998

Date

Total number of pages comprising cover sheet: 1

CMB No. 0851-0011 (exp. 4/94)

PATENT  
REEL: 9220 FRAME: 0197

**Docket No.: 1033-300**

**ASSIGNMENT**

WHEREAS WE, Nick Kepler, Basab Bandyopadhyay, Olov Karlsson, Larry Wang, Effiong Ibok, and Christopher F. Lyons, respectively, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled SHALLOW TRENCH ISOLATION FORMATION WITH TRENCH WALL SPACER executed by us on the date of execution of this document, as shown below, and filed concurrently herewith;

OR

for which an application for United States Letters Patent was filed on \_\_\_\_\_ and identified by United States Serial No. \_\_\_\_\_ ;

AND WHEREAS, Advanced Micro Devices, Inc., a corporation of the State of Delaware and having an address of One AMD Place, P. O. Box 3453, Sunnyvale, California 94088-3453 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, We do hereby sell, assign, transfer and set over unto Advanced Micro Devices, Inc., its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATIONS, We hereby agree with the said assignee that We will not execute any writing or do any act whatsoever conflicting with these presents, and that We will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;

AND We request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said Advanced Micro Devices, Inc., its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

\_\_\_\_\_  
Date 5/11/98

\_\_\_\_\_  
Nick Kepler

\_\_\_\_\_  
Date

\_\_\_\_\_  
Basab Bandyopadhyay

\_\_\_\_\_  
Date

\_\_\_\_\_  
Olov Karlsson

\_\_\_\_\_  
Date

\_\_\_\_\_  
Larry Wang

\_\_\_\_\_  
Date

\_\_\_\_\_  
Effiong Ibok

\_\_\_\_\_  
Date

\_\_\_\_\_  
Christopher F. Lyons

PATENT

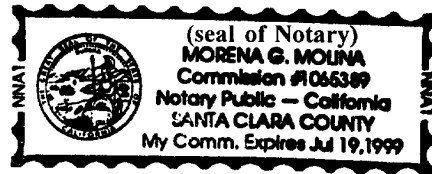
REEL: 9220 FRAME: 0198

STATE OF CALIFORNIA )  
 ) SS:  
COUNTY OF Santa Clara

On May 11, 1998 before me, Morena G. Molina, Notary Public,  
personally appeared Nick Kepler  
personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their  
authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf  
of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Morena G. Molina (signature of Notary)  
My commission expires July 19, 1999.



STATE OF CALIFORNIA )  
 ) SS:  
COUNTY OF \_\_\_\_\_

On \_\_\_\_\_ before me, \_\_\_\_\_,  
personally appeared \_\_\_\_\_,  
personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their  
authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf  
of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

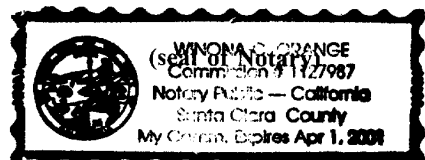
\_\_\_\_\_  
(signature of Notary) (seal of Notary)  
My commission expires \_\_\_\_\_

STATE OF CALIFORNIA )  
 ) SS:  
COUNTY OF Santa Clara

On May 13, 1998 before me, WINONA C. ORANGE, Notary Public,  
personally appeared Olav Karlsson  
personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their  
authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf  
of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Winona C. Orange (signature of Notary)  
My commission expires April 1, 2001



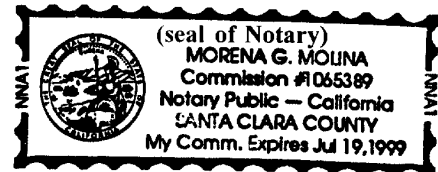
STATE OF CALIFORNIA )  
 ) SS:  
COUNTY OF Santa Clara )

On May 8, 1998 before me, Morena G. Molina, Notary Public,  
personally appeared Larry Wang,  
personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their  
authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf  
of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Morena G. Molina (signature of Notary)

My commission expires July 19, 1999.



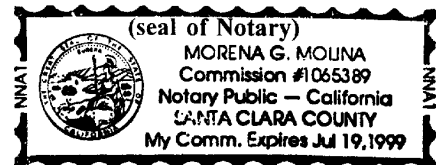
STATE OF CALIFORNIA )  
 ) SS:  
COUNTY OF Santa Clara )

On May 20, 1998 before me, Morena G. Molina, Notary Public,  
personally appeared \_\_\_\_\_,  
personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their-  
authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf  
of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Morena G. Molina (signature of Notary)

My commission expires July 19, 1999.



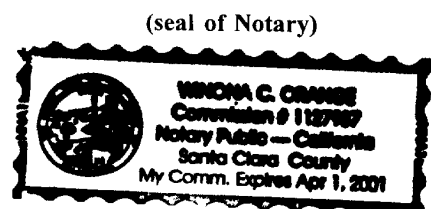
STATE OF CALIFORNIA )  
 ) SS:  
COUNTY OF Santa Clara )

On May 8, 1998 before me, Winona C. Orange, Notary Public,  
personally appeared Christopher F. Lyons (C.F. Lyons),  
~~personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are~~  
~~subscribed to the within instrument and acknowledged to me that he/she/they executed the same in (his/her/their~~  
~~authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf~~  
~~of which the person(s) acted, executed the instrument.~~

WITNESS my hand and official seal.

Winona C. Orange (signature of Notary)

My commission expires April 1, 2001



PATENT

REEL: 9220 FRAME: 0200

**Docket No.: 1033-300**

**ASSIGNMENT**

WHEREAS WE, Nick Kepler, Basab Bandyopadhyay, Olov Karlsson, Larry Wang, Effiong Ibok, and Christopher F. Lyons, respectively, have made a certain new and useful invention as set forth in an application for United States Letters Patent, entitled SHALLOW TRENCH ISOLATION FORMATION WITH TRENCH WALL SPACER executed by us on the date of execution of this document, as shown below, and filed concurrently herewith;

OR

for which an application for United States Letters Patent was filed on \_\_\_\_\_ and identified by United States Serial No. \_\_\_\_\_ ;

AND WHEREAS, Advanced Micro Devices, Inc., a corporation of the State of Delaware and having an address of One AMD Place, P. O. Box 3453, Sunnyvale, California 94088-3453 is desirous of acquiring the entire right, title and interest in and to said invention and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, We do hereby sell, assign, transfer and set over unto Advanced Micro Devices, Inc., its legal representatives, successors, and assigns, the entire right, title and interest in and to said invention as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATIONS, We hereby agree with the said assignee that We will not execute any writing or do any act whatsoever conflicting with these presents, and that We will, at any time upon request, without further or additional consideration but at the expense of said assignee, execute such additional assignments and other writings and do such additional acts as said assignee may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of assignor and assignee;

AND We request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said Advanced Micro Devices, Inc., its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date 5/15/98

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date 5/18/98

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

\_\_\_\_\_  
Nick Kepler

\_\_\_\_\_  
Basab Bandyopadhyay

\_\_\_\_\_  
Olov Karlsson

\_\_\_\_\_  
Larry Wang

\_\_\_\_\_  
Effiong Ibok

\_\_\_\_\_  
Christopher F. Lyons

PATENT  
REEL: 9220 FRAME: 0201

STATE OF CALIFORNIA )  
 ) SS:  
COUNTY OF \_\_\_\_\_)

On \_\_\_\_\_ before me, \_\_\_\_\_,  
personally appeared \_\_\_\_\_,  
personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their  
authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf  
of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_ (signature of Notary) (seal of Notary)

My commission expires \_\_\_\_\_

Texas  
STATE OF ~~CALIFORNIA~~ )  
 ) SS:  
COUNTY OF Travis )

On 15 May 98 before me, Laura K. Fenton,  
personally appeared Basab Bandyopadhyay,  
personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their  
authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf  
of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Laura K. Fenton (signature of Notary)



My commission expires 21 Dec. 98

STATE OF CALIFORNIA )  
 ) SS:  
COUNTY OF \_\_\_\_\_)

On \_\_\_\_\_ before me, \_\_\_\_\_,  
personally appeared \_\_\_\_\_,  
personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their  
authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf  
of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_ (signature of Notary) (seal of Notary)

My commission expires \_\_\_\_\_

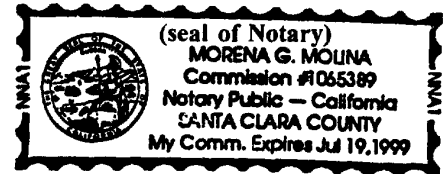
STATE OF CALIFORNIA )  
 ) SS:  
COUNTY OF Santa Clara

On May 8 1999 before me, Morena G. Molina, Notary Public,  
personally appeared Larry Wang,  
personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their  
authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf  
of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Morena G. Molina (signature of Notary)

My commission expires July 19, 1999.



STATE OF CALIFORNIA )  
 ) SS:  
COUNTY OF )

On \_\_\_\_\_ before me, \_\_\_\_\_,  
personally appeared \_\_\_\_\_,  
personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their  
authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf  
of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_ (signature of Notary)

(seal of Notary)

My commission expires \_\_\_\_\_

STATE OF CALIFORNIA )  
 ) SS:  
COUNTY OF )

On \_\_\_\_\_ before me, \_\_\_\_\_,  
personally appeared \_\_\_\_\_,  
personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are  
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their  
authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf  
of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_ (signature of Notary)

(seal of Notary)

My commission expires \_\_\_\_\_