

423; AMD: E325

PATENTS ONLY

02-04-2000

PATENTS ONLY

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101259494

1.28.00

Please record the attached original

1. Name of Party(ies) conveying an interest:

Bharath Rangarajan, David K. Foote,  
Fei Wang, Dawn M. Hopper,  
Stephen K. Park, Jack Thomas  
Mark Chang, and Mark Ramsbey

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

☐ Yes ☒ No

2. Name and Address of Party(ies) receiving an interest:

Name: Advanced Micro Devices, Inc.  
Internal Address:  
Street Address: One AMD Place, P.O. Box 3453  
City: Sunnyvale  
State/Zip: California 94088-3453

Additional name(s) and addresses attached?

☐ Yes ☒ No

3. Description of the interest conveyed:

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

Execution Date: 12-14-99

4. Application number(s) or patent number(s). Additional sheet attached? ☐ Yes ☒ No

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

Date

A. Patent Application No.(s)  
09/430,493

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

BRINKS HOFER GILSON & LIONE  
P.O. BOX 10395  
CHICAGO, IL 60610  
(312)321-4200

6. Number of applications and patents involved: One (1)7. Total fee (37 CFR 3.41) \$ 40.00

☒ Enclosed  
☐ Authorized to be charged to Deposit Account No.  
23-1925

8. ☒ Please charge any deficiencies in fee or credit any overpayment to Deposit Account No. 23-1925.

DO NOT USE THIS SPACE

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( 40.00 OP )

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.

Jasper W. Dockrey  
Name of Person Signing

Signature

01-21-2000  
Date

Total number of pages including cover sheet, attachments, and document: seven (7)

Rev. Nov-98

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PATENT  
REEL: 010517 FRAME: 0978

**ASSIGNMENT**

WHEREAS, Bharath Rangarajan, David K. Foote, Fei Wang, Dawn M. Hopper, Stephen K. Park, Jack Thomas, Mark Chang, and Mark Ramsbey, hereinafter called the "Assignors", have made the invention described in the United States patent application entitled PROCESS FOR FABRICATING HIGH DENSITY MEMORY CELLS USING A POLYSILICON HARD MASK, executed by Assignors on the same date as this Assignment;

WHEREAS, Advanced Micro Devices, a corporation organized and existing under the laws of the State of Delaware having a place of business at One AMD Place, P.O. Box 3453, Sunnyvale, California 94088-3453, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

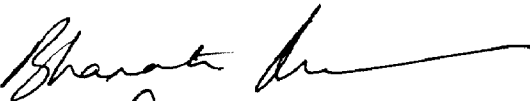
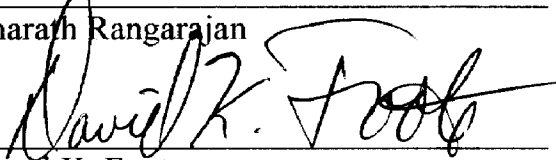
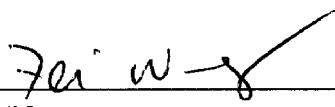
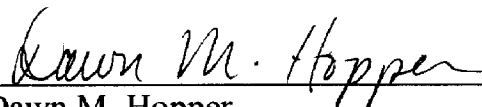
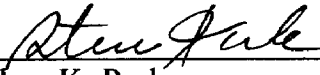
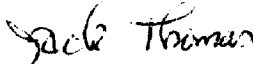
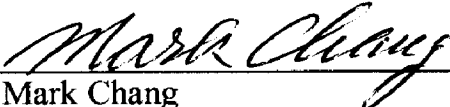
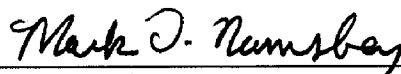
NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other valuable and legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and

patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignors will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATED:	<u>12/14/99</u>	<u></u> Bharath Rangarajan
DATED:	<u>12/14/99</u>	<u></u> David K. Foote
DATED:	<u>12-10-99</u>	<u></u> Fei Wang
DATED:	<u>12/10/99</u>	<u></u> Dawn M. Hopper
DATED:	<u>1/11/00</u>	<u></u> Stephen K. Park
DATED:	<u>Dec 10, 1999</u>	<u></u> Jack Thomas
DATED:	<u>12/10/99</u>	<u></u> Mark Chang
DATED:	<u>12/10/99</u>	<u></u> Mark Ramsbey

STATE OF *California* )  
 ) SS.  
COUNTY OF *Santa Clara* )

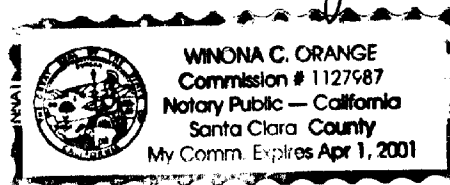
I, *WINONA C. ORANGE*, A Notary Public in and for the County and State  
aforesaid, do hereby certify that Bharath Rangarajan, personally known to me to be the same  
person whose name is subscribed to the foregoing instrument, appeared before me this day in  
person and acknowledged that ~~(s)he~~ signed, sealed and delivered the said instrument as ~~his~~ her  
free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this  
*14<sup>th</sup>* day of *December*, 1999.

*Winona C. Orange*  
\_\_\_\_\_  
Notary Public

(SEAL)

My Commission Expires: *April 1, 2001*



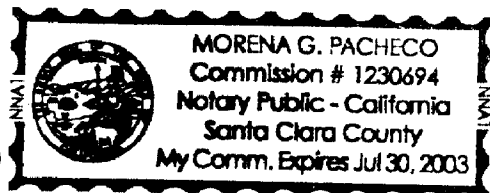
STATE OF *California* )  
 ) SS.  
COUNTY OF *Santa Clara* )

I, *Morena G. Pacheco*, A Notary Public in and for the County and State  
aforesaid, do hereby certify that David K. Foote, personally known to me to be the same person  
whose name is subscribed to the foregoing instrument, appeared before me this day in person and  
acknowledged that (s)he signed, sealed and delivered the said instrument as his/her free and  
voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this  
*14<sup>th</sup>* day of *December*, 1999.

*Morena G. Pacheco*  
\_\_\_\_\_  
Notary Public

(SEAL)

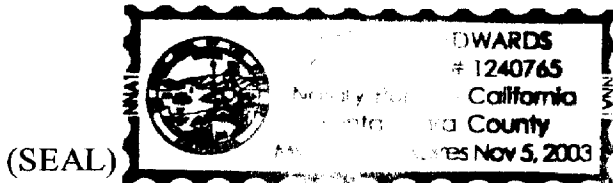


My Commission Expires:

STATE OF *California* )  
COUNTY OF *Santa Clara* ) SS.

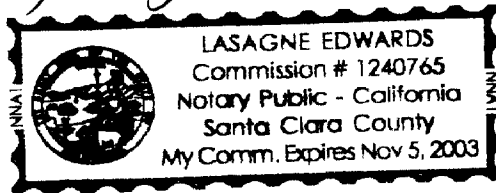
I, *Lasagne Edwards*, A Notary Public in and for the County and State aforesaid, do hereby certify that Fei Wang, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that (s)he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this *10<sup>th</sup>* day of *December*, 1999.



*Lasagne Edwards*  
Notary Public

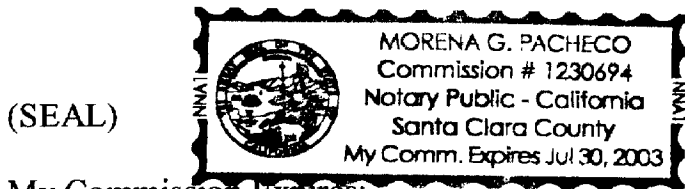
My Commission Expires: *11/05/03*



STATE OF *California* )  
COUNTY OF *Santa Clara* ) SS.

I, *Morena G. Pacheco*, A Notary Public in and for the County and State aforesaid, do hereby certify that Dawn M. Hopper, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that (s)he signed, sealed and delivered the said instrument as his/her free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this *10<sup>th</sup>* day of *December*, 1999.



*Morena G. Pacheco*  
Notary Public

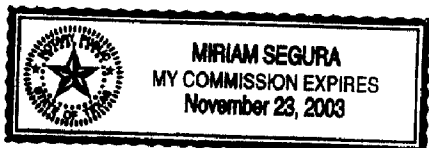
My Commission Expires:

STATE OF TEXAS )  
COUNTY OF TRAVIS ) SS.

I, MIRIAM SEGURA, A Notary Public in and for the County and State  
aforesaid, do hereby certify that Stephen K. Park, personally known to me to be the same person  
whose name is subscribed to the foregoing instrument, appeared before me this day in person and  
acknowledged that (s)he signed, sealed and delivered the said instrument as his/her free and  
voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this  
11<sup>th</sup> day of January, ~~1999~~ 2000.

(SEAL)



Miriam Segura  
Notary Public

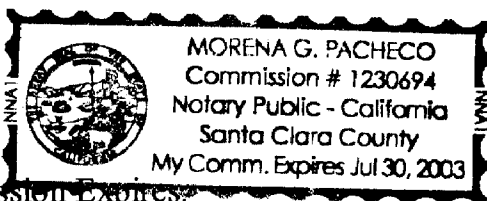
My Commission Expires:

STATE OF California )  
COUNTY OF Santa Clara ) SS.

I, Morena G. Pacheco, A Notary Public in and for the County and State  
aforesaid, do hereby certify that Jack Thomas, personally known to me to be the same person  
whose name is subscribed to the foregoing instrument, appeared before me this day in person and  
acknowledged that (s)he signed, sealed and delivered the said instrument as his/her free and  
voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this  
10<sup>th</sup> day of December, 1999.

(SEAL)



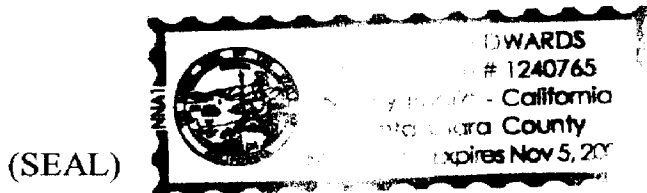
My Commission Expires:

Morena G. Pacheco  
Notary Public

STATE OF *California* )  
 ) SS.  
COUNTY OF *Santa Clara* )

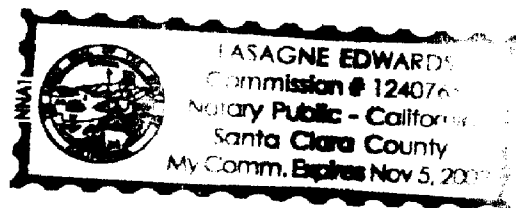
I, *Lasagne Edwards*, A Notary Public in and for the County and State  
aforesaid, do hereby certify that Mark Chang, personally known to me to be the same person  
whose name is subscribed to the foregoing instrument, appeared before me this day in person and  
acknowledged that ~~he~~ signed, sealed and delivered the said instrument as his ~~her~~ free and  
voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this  
*10th* day of *December*, 1999.



*Lasagne Edwards*  
Notary Public

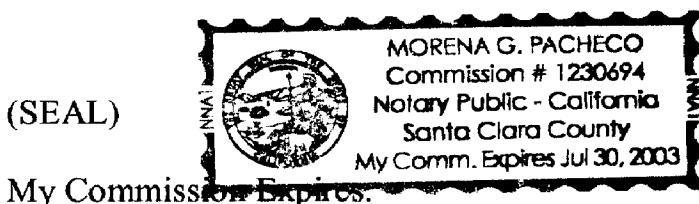
My Commission Expires:



STATE OF *California* )  
 ) SS.  
COUNTY OF *Santa Clara* )

I, *Morena G. Pacheco*, A Notary Public in and for the County and State  
aforesaid, do hereby certify that Mark Ramsbey, personally known to me to be the same person  
whose name is subscribed to the foregoing instrument, appeared before me this day in person and  
acknowledged that (s)he signed, sealed and delivered the said instrument as his/her free and  
voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this  
*10th* day of *December*, 1999.



*Morena G. Pacheco*  
Notary Public

My Commission Expires: