

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Hyun-Jin CHO</td> <td>11/25/2008</td> </tr> <tr> <td>Sang H. DHONG</td> <td>12/04/2008</td> </tr> <tr> <td>Jung-Suk GOO</td> <td>12/05/2008</td> </tr> <tr> <td>Gurupada MANDAL</td> <td>12/04/2008</td> </tr> </tbody> </table>		Name	Execution Date	Hyun-Jin CHO	11/25/2008	Sang H. DHONG	12/04/2008	Jung-Suk GOO	12/05/2008	Gurupada MANDAL	12/04/2008
Name	Execution Date										
Hyun-Jin CHO	11/25/2008										
Sang H. DHONG	12/04/2008										
Jung-Suk GOO	12/05/2008										
Gurupada MANDAL	12/04/2008										
RECEIVING PARTY DATA											
Name:	Advanced Micro Devices, Inc.										
Street Address:	7171 Southwest Parkway										
City:	Austin										
State/Country:	TEXAS										
Postal Code:	78735										
PROPERTY NUMBERS Total: 1											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12330282</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12330282						
Property Type	Number										
Application Number:	12330282										
CORRESPONDENCE DATA											
Fax Number:	(480)385-5061										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	480-385-5060										
Email:	jehrlich@ifllaw.com										
Correspondent Name:	INGRASSIA FISHER & LORENZ, P.C.										
Address Line 1:	7010 E. Cochise Road										
Address Line 4:	Scottsdale, ARIZONA 85253										
ATTORNEY DOCKET NUMBER:	005.0153 (H2590)										
NAME OF SUBMITTER:	Erin P. Madill										
<p>Total Attachments: 5 source=20081208_ASSIGN#page1.tif</p>											

CH \$40.00 12330282

source=20081208_ASSIGN#page2.tif
source=20081208_ASSIGN#page3.tif
source=20081208_ASSIGN#page4.tif
source=20081208_ASSIGN#page5.tif

ASSIGNMENT

WHEREAS, the undersigned inventor(s) (hereinafter individually and collectively referred to as "ASSIGNOR") have invented:

**DYNAMIC RANDOM ACCESS MEMORY (DRAM) CELLS AND METHODS FOR
FABRICATING THE SAME**

for which application for Letters Patent of the United States:

- has been executed on even date herewith;
 executed on _____;
 was filed on December 8, 2008 and assigned U.S. Application Serial No. 12/330,282 ;

AND WHEREAS, Advanced Micro Devices, Inc., a corporation; partnership; individual having a place of business at 7171 Southwest Parkway, Austin, Texas 78735, U.S.A. (hereinafter "ASSIGNEE"), and successors, assigns, and legal representatives, is desirous of acquiring an interest therein;

AND WHEREAS, a "formal application," as referred to herein, shall mean any provisional, nonprovisional, continuation, continuation in part, continued prosecution, substitute, renewal, extension, divisional, reissue, reexamination, foreign, Patent Cooperation Treaty (PCT) or other patent application, inventor's certificate, or like document;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR does hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right to the aforesaid application, to the invention as described in the aforesaid application, and to any formal application which may be filed based in whole or in part on the aforesaid application, in the United States and all foreign countries, together with the right of priority under any international agreements to which the United States currently adheres and adheres to in the future, and hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives,

AND ASSIGNOR HEREBY AGREES to transfer, upon request of ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, a like interest in and to any improvements and formal applications based thereon, growing out of or relating to the invention; and, without further remuneration, to provide all reasonable assistance and execute any papers requested by ASSIGNEE, its successors, assigns and legal representatives, to preserve and/or acquire ASSIGNEE's full protection and title in and to the invention hereby transferred and any improvements therein,

ASSIGNOR AGREEING, FURTHERMORE, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE for the filing and granting of formal applications based on the invention or improvements therein, and the perfecting of title thereto in ASSIGNEE.

ASSIGNOR hereby authorizes Advanced Micro Devices, Inc., its successors and assigns, its legal representatives, or anyone it may properly designate, to insert in this instrument the filing date and/or serial number of said application when ascertained.

EXECUTED as of the date(s) written below by ASSIGNOR:

Inventor's Signature: *Hyun Jin Cho* Date: 11/25/2008

Inventor's Printed Name: **Hyun-Jin CHO**

STATE OF CALIFORNIA)
COUNTY OF Santa Clara)

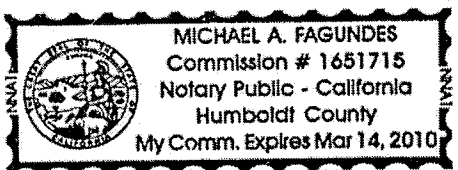
On 25th of November, ²⁰⁰⁸⁻ before me, Michael A. Fagundes, Notary Public,
Date *Name and Title of the Officer*
personally appeared Hyun Jin Cho who proved to me on the basis of
satisfactory evidence to be the person whose name is subscribed to the within instrument and
acknowledged to me that ~~he/she~~ executed the same in ~~his/her~~ authorized capacity, and that by
~~his/her~~ 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.

Michael A. Fagundes
Signature of Notary Public

(Seal)



Inventor's Signature: Sang H. Dhong Date: 12/4/2008

Inventor's Printed Name: Sang H. DHONG

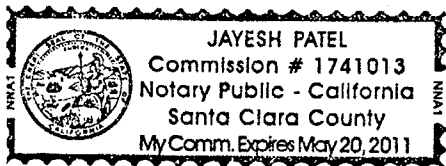
STATE OF CALIFORNIA)
COUNTY OF Santa Clara)

On 12/4/2008 before me, Jayesh Patel, Notary Public,
Date *Name and Title of the Officer*

personally appeared Sang H. Dhong 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/she executed the same in his/her authorized capacity, and that by his/her 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.



Jayesh Patel
Signature of Notary Public

(Seal)

Inventor's Signature: [Signature] Date: Dec 5, 2008

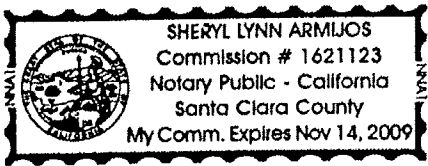
Inventor's Printed Name: **Jung-Suk GOO**

STATE OF CALIFORNIA)
COUNTY OF San Jose)

On Dec 5, 2008 before me, Sheryl Armijos, Notary Public
Date Name and Title of the Officer
personally appeared Jung-Suk Goo 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/she executed the same in his/her authorized capacity, and that by
his/her 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.



[Signature]
Signature of Notary Public
(Seal)

Inventor's Signature: G Mandal Date: 12/04/2008

Inventor's Printed Name: **Gurupada MANDAL**

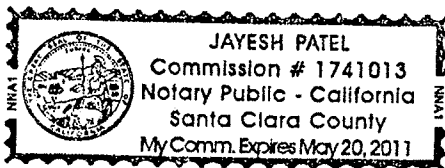
STATE OF CALIFORNIA)
COUNTY OF Santa Clara)

On 12-04-2008 before me, Jayesh Patel, Notary Public,
Date *Name and Title of the Officer*

personally appeared Gurupada Mandal 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/she executed the same in his/her authorized capacity, and that by his/her 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.



Jayesh Patel
Signature of Notary Public

(Seal)