FORM PTO-1595 (REV 6-93)

ER SHEET

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

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OMB No. 0651-011 (exp.4/94) To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies): Name of conveying party(ies): Richard Fastow Advanced Micro Devices, Inc. 05/09/01 Xin Guo Sameer S. Haddad Internal Address: _____ Additional name(s) of conveying party(ies) attached? [] Yes [X] No Street Address: One AMD Place 3. Nature of conveyance: P.O. Box 3453 [] Merger [X] Assignment Sunnyvale Security Agreement [] Change of Name City: ___ California ZIP: State/Country: Execution Date: April 23, April 30 and April 23, 2001 Additional name(s) & address(es) attached? [] Yes 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: April 23, April 30 B. Patent No.(s) A. Patent Application No.(s) 09/851 773 Additional Numbers attached? [] Yes [X] No 6. Total number of applications and patents involved: [1] 5. Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41)\$____ Thomas G. Eschweiler Name: _ Internal Address: [X] Enclosed [x] Authorized to be charged to deposit account Eschweiler & Associates, LLC Street Adding 80000034 9985 Giry Bank Building 8. Deposit account number: 629 Euclid Avenuer Suite 1210 50-1733 Cleveland City: _ ZIP: 44114 Ohio (Attach duplicate copy of this page if paying by deposit account) State: DO NOT USE THIS SPACE 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. May 9, 2001 Thomas G. Eschweiler Date Name of Person Signing

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

Commissioner of Patents & Trademarks, Box Assignments

Washington, D.C. 20231

Total number of pages including cover sheet attachments, and document: [4]

ASSIGNMENT

WHEREAS, Richard Fastow, Xin Guo and Sameer S. Haddad, hereinafter called the "Assignors", have made the invention described in the United States patent application entitled THRESHOLD VOLTAGE COMPACTING FOR NON-VOLATILE SEMICONDUCTOR MEMORY DESIGNS, executed by Assignors on the same date as this Assignment;

WHEREAS, ADVANCED MICRO DEVICES, INC., a corporation organized and existing under the laws of the State of Delaware, having a place of business at P.O. Box 3453, Sunnyvale, California 94088-3453, hereinafter called the "Assignee", desires to acquire the entire right, title and interest, including but not limited to the authority to license, 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, including but not limited to the authority to license, 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, including but not limited to the authority to license, 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, including but not limited to the authority to license, 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

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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.

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STATE OF

COUNTY OF SW

I. Lasagne Edwards ____, A Notary Public in and for the County and State aforesaid, do hereby certify that Richard Fastow, 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

23dday of April, 2001.

(SEAL)

My Commission Expires:

PATENT

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DATED:	4/30/2001	Xin Gu	10
STATE OF COUNTY OF	California) Santa Clara; ss.		
whose name i acknowledged	d, do hereby certify that Xin (as subscribed to the foregoing in that he signed, sealed and for the uses and purposes there IN WITNESS WHEREOF LASAGNE EDW Commission # 12 Notary Public - Co Santa Clara Co	Guo, personally known astrument, appeared be delivered the said in a set forth. See hereunto set my cores in the set of	olic in and for the County and to me to be the same person and efore me this day in person and estrument as his/her free and y hand and Notarial Seal, this PUBLIC
DATED:	9/23/41	Samee	meer Muldal. rS. Haddad
STATE OF	California) Santa Clara) ss.		
State aforesai	I, Lasagne Edwards id. do hereby certify that Same	r S. Haddad, personal	olic in and for the County and ly known to me to be the same ppeared 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.

WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this

(SEAL)

My Commission

My Comm. Expires Nov 5, 2003

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- 3 -