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FORM PTO-1595
(Rev. 6-93)

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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

OMB No. 0651-0011 (exp. 4/94)

100804509
PATENT'S ONLY

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

1. Name of conveying party(ies):

James Brady
James L. Worley

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

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

Name: STMicroelectronics, Inc.

Internal Address: 1310 Electronics Drive, Carrollton, Texas 75006-5039

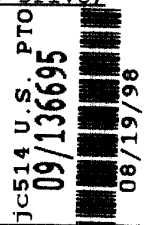
Street Address: 1310 Electronics Drive, Carrollton, Texas 75006-5039

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

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: _____



4. 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: August 13, 1998

A. Patent Application No. (s)

09/136695

B. Patent No. (s)

Additional numbers attached? Yes No

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

Name: William F. Esser

JENKENS & GILCHRIST, P.C.
3200 Fountain Square
1445 Ross Avenue
Dallas, Texas 75202-2799

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: 10-0447 (for deficiency only)

DO NOT USE THIS SPACE

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.

William F. Esser
Name of Person Signing

William F. Esser
Signature

August 19, 1998
Date

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

08/25/1998 NHUYEN 00000221 09136695

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Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents and Trademarks, Box Assignments
Washington, D.C. 20231

PATENT

REEL: 9403 FRAME: 0656

ASSIGNMENT

WHEREAS, we, the undersigned, have invented certain new and useful improvements in the following:

METHOD AND APPARATUS FOR BIT LINE RECOVERY IN DYNAMIC RANDOM ACCESS MEMORY

for which we have made application for United States Letters Patent, the said application having been executed by us concurrently herewith;

WHEREAS, STMicroelectronics, Inc., a corporation having its principal place of business at 1310 Electronics Drive, Carrollton, Texas 75006-5039 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring our entire right, title and interest in and to the invention, and in and to the said applications and any Letters Patent that may issue thereon;

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives our entire right, title and interest in and to said invention and in and to said applications and all patents which may be granted therefore, and all divisions, reissues, substitutions, continuations, continuation-in-part and extensions thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to the said ASSIGNEE of our entire right, title and interest.

We also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said applications throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and

We further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

We hereby further agree that we will communicate to said ASSIGNEE, or its successors, assigns and legal representatives, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

We further authorize and direct our attorneys to insert below* the serial number and filing date of said application now identified as Case Docket No. 98-C-040/28940-37 as soon as the same shall have been made known to them by the United States Patent Office.

*Serial Number: _____

Filing Date: _____

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 13 day of Aug,
1998.

James Brady

James Brady
Address: 4101 Elmhill Drive, Plano, Collin County,
Texas 75024-5448

State of Texas §
County of Dallas § ss.:
~~Collin~~ §

On this 13th day of August, 1998, before me, a Notary Public in and for the State and County aforesaid, personally appeared James Brady, to me well known and known by me to be the person of the above name who signed and sealed the foregoing instrument, and acknowledged the same to be his own free act and deed.

Mary L. Hiner

Notary Public

My Commission Expires:



IN WITNESS WHEREOF, I have hereunto set my hand and seal this 13 day of Aug, 1998.

James L. Worley

James L. Worley
Address: 1309 Colony Court, Flower Mound,
Denton County, Texas 75028

State of Texas §
County of Dallas § ss.:
Cottin §

On this 13th day of August, ~~1996~~ 1998, before me, a Notary Public in and for the State and County aforesaid, personally appeared James L. Worley to me well known and known by me to be the person of the above name who signed and sealed the foregoing instrument, and acknowledged the same to be his own free act and deed.

Mary L. Hiner
Notary Public

My Commission Expires:



IPDAL:174839.1 28940-00037

RECORDED: 08/19/1998

PATENT
REEL: 9403 FRAME: 0660