

08-12-2004

PATENTS ONLY

PATENTS ONLY

TO THIS

ENTRIES



Please receive

102812809

copy thereof.

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

Matthew P. Crowley  
Luca G. Fasoli  
Alper Ilkabahar  
Mark G. Johnson  
Bendik Kleveland  
Thomas H. Lee  
Roy E. Scheuerlein



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

Name: Matrix Semiconductor, Inc.  
Internal Address:  
Street Address: 3230 Scott Boulevard  
City: Santa Clara  
State/Zip: CA/95054

Additional name(s) and addresses attached?  
 Yes  No

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

3. Description of the interest conveyed:

- Assignment  Change of Name Other:  
 Security Agreement  Merger

Execution Date: June 29, July 2, 12, 14 and 20, 2004

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

5.

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

Date

A. Patent Application No.(s)  
10/774,758

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: 1

7. Total fee (37 CFR 3.41) \$ 40  
 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

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.

Joseph F. Hetz  
Name of Person Signing

Signature

August 4, 2004  
Date

Total number of pages including cover sheet, attachments, and document: 9

10.

**ASSIGNMENT**

WHEREAS, Matthew P. Crowley, Luca G. Fasoli, Alper Ilkabahar, Mark G. Johnson, Bendik Kleveland, Thomas H. Lee, and Roy E. Scheuerlein, hereinafter called the "Assignors", have made the invention described in the United States patent application entitled SYSTEM ARCHITECTURE AND METHOD FOR THREE-DIMENSIONAL MEMORY, for a full description of which reference is here made to an application for Letters Patent of the United States filed on February 9, 2004, and assigned Application Serial No. 10/774,758;

WHEREAS, Matrix Semiconductor, Inc., a corporation organized and existing under the laws of the State of Delaware, having a place of business at 3230 Scott Boulevard, Santa Clara, CA 95054, 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.

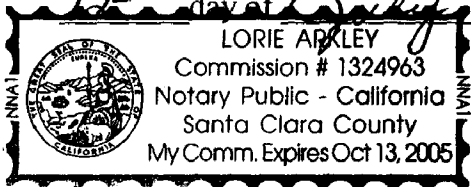
DATED: July 12, 2004

Matthew P. Crowley  
MATTHEW P. CROWLEY

STATE OF CALIF )  
 ) ss.  
COUNTY OF SANTA CLARA )

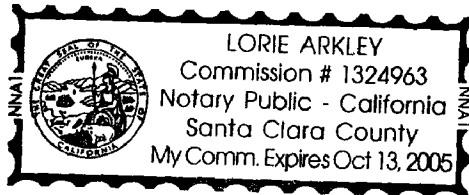
I, LORIE ARKLEY, A Notary Public in and for the County and State aforesaid, do hereby certify that MATTHEW P. CROWLEY, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that (s)he signed, sealed and 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 12th day of July, 2004.




Lorie Arkley  
Notary Public

My Commission Expires:



DATED: 7/10/2004

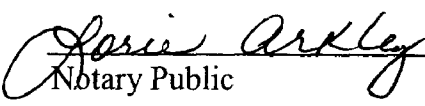
  
LUCA G. FASOLI

STATE OF CALIF )  
 ) ss.  
COUNTY OF SANTA )  
 CLARA )

I, LORIE ARKLEY, A Notary Public in and for the County and State aforesaid, do hereby certify that LUCA G. FASOLI, 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 20th day of July, 2004.



  
Notary Public

My Commission Expires:

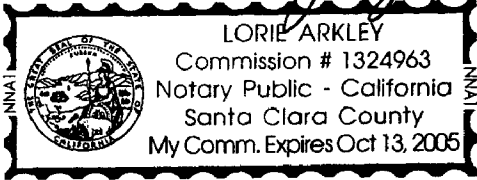
DATED: 7/20/04

Alper Ilkbarhar  
ALPER ILKBAHAR

STATE OF CALIF )  
                          ) ss.  
COUNTY OF SANTA )  
                          ) CLARA

I, LORIE ARKLEY, A Notary Public in and for the County and State aforesaid, do hereby certify that ALPER ILKBAHAR, 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 20<sup>th</sup> day of July, 2004.



Lorie Arkley  
Notary Public

My Commission Expires:

DATED: 6/29/2004

Mark G. Johnson  
MARK G. JOHNSON

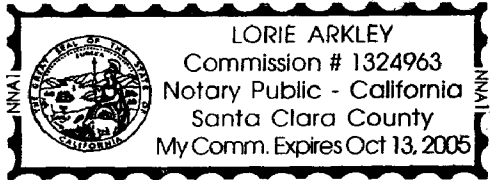
STATE OF CALIF )  
 ) ss.  
COUNTY OF SANTA )  
                  CLARA )

I, LORIE ARKLEY, A Notary Public in and for the County and State aforesaid, do hereby certify that MARK G. JOHNSON, 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 29th day of JUNE, 2004.

Lorie Arkley  
Notary Public

My Commission Expires:



DATED: July 14, 2004

Bendik Kleveland  
BENDIK KLEVELAND

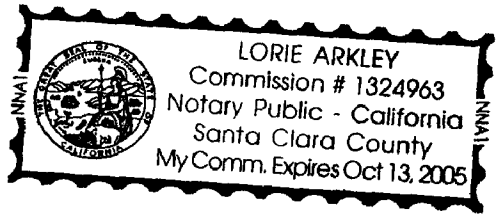
STATE OF CALIF )  
                          ) ss.  
COUNTY OF SANTA )  
                          ) CLARA

I, LORIE ARKLEY, A Notary Public in and for the County and State aforesaid, do hereby certify that BENDIK KLEVELAND, 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~~ she 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 July, 2004.

Lorie Arkley  
Notary Public

My Commission Expires:







DATED: July 2, 2004

Roy E. Scheuerlein  
ROY E. SCHEUERLEIN

STATE OF CALIF )  
                              ) ss.  
COUNTY OF SANTA )  
                              ) CLARA )

I, LORIE ARKLEY, A Notary Public in  
and for the County and State aforesaid, do hereby certify that ROY E. SCHEUERLEIN, 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~~ 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  
2nd day of JULY, 2004.

Lorie Arkley  
Notary Public

My Commission Expires:

