

05-27-2003

ATTORNEY DOCKET NO.: 023-0019



SHEET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

To the Honorable Commissioner of Patents

102456508

Attached original documents or copy thereof.

## 1. Name of conveying party(ies):

S-22-53

- (a) Roy E. Scheuerlein (e) Sucheta Nallamothe  
(b) Christopher Petti (f) Alper Ilkbahar  
(c) Andrew J. Walker (g) Luca Fasoli  
(d) En-Hsing Chen (h) Igor Kouznetsov

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

☐ Yes ☒ No

## 3. Nature of Conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: (a, c, e, f, g) - 04-18-2003; (b, d) - 04-22-2003;  
(h) - 04-30-2003

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

Name: MATRIX SEMICONDUCTOR, INC.

Internal Address: \_\_\_\_\_

Street Address: 3230 Scott BoulevardCity: Santa Clara State: CA ZIP: 95054Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 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:

A. Patent Application No.: 10/335,078

B. Patent No.: \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

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

Name: Andrew C. Graham  
Internal Address: Zagorin, O'Brien & Graham, L.L.P.  
Street Address: 401 West 15<sup>th</sup> Street, Suite 870  
City: AUSTIN State: TX ZIP: 78701

6. Total number of applications and patents involved: 17. Total Fee (37 CFR 3.41): \$ 40.00

- ☒ A check is enclosed for the Total Fee shown above  
☐ Please charge the Total Fee shown above to Deposit Account 50-0631  
☒ Authorized to charge additional fees to Deposit Account 50-0631

DO NOT USE THIS SPACE

## 8. 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.*

Andrew C. Graham, Reg. No. 36,531  
Name of Person Signing

Signature

Date

5/19/03

05/23/2003 LNUELLER 00000088 10335078

FC:8021

40.00 DP

Total number of pages including cover sheet: 7Express Mail No. N/A

PATENT

REEL: 014091 FRAME: 0586

# ASSIGNMENT OF INVENTION

For good and valuable consideration, the receipt of which is hereby acknowledged,  
I, an ASSIGNOR named below,

Roy E. Scheuerlein	of	Cupertino, CA
Christopher Petti	of	Mountain View, CA
Andrew J. Walker	of	Mountain View, CA
En-Hsing Chen	of	Sunnyvale, CA
Sucheta Nallamothe	of	San Jose, CA
Alper Ilkbahar	of	San Jose, CA
Luca Fasoli	of	San Jose, CA
Igor Koutnetsov	of	Santa Clara, CA
<del>KOUTNETSOV</del>		<del>SUNNYVALE</del>

hereby sell, assign and transfer to

ASSIGNEE: Matrix Semiconductor, Inc., a Delaware corporation, having a  
place of business at 3230 Scott Boulevard, Santa Clara, CA 95054

its successors, assigns and legal representatives, my entire right, title and interest throughout  
the world, including all rights to claim priority, in and to the invention(s) disclosed in:

- ☐ U.S. Patent Application executed on or about the date of this Assignment,
- ☐ U.S. Patent Application executed on \_\_\_\_\_, or
- ☐ U.S. Provisional Application
- ☒ U.S. Application No.: 10/335,078, filed on December 31, 2002
- ☐ International Application No.: PCT/\_\_\_\_\_, filed on \_\_\_\_\_

ENTITLED: **PROGRAMMABLE MEMORY ARRAY STRUCTURE  
INCORPORATING SERIES-CONNECTED TRANSISTOR  
STRINGS AND METHODS FOR FABRICATION AND  
OPERATION OF SAME**, and naming as

INVENTOR(S): Roy E. Scheuerlein, Christopher Petti, Andrew J. Walker, En-  
Hsing Chen, Sucheta Nallamothe, Alper Ilkbahar, Luca Fasoli, Igor  
Koutnetsov

including without limitation, my entire right, title and interest in and to any and all United  
States and foreign applications (including international, regional and foreign national  
applications) for said invention(s), including divisions, continuations, continuations-in-part,  
renewals, substitutes and extensions thereof, and in and to any and all patents of every  
country or region that may be granted or have been granted for said invention(s), including  
any reissues and reexaminations thereof.

To comply with 37 C.F.R. § 3.21 for recording this Assignment, I authorize and request that  
the application number and filing date be inserted here, if not already shown above,  
(\_\_\_\_\_/\_\_\_\_\_, filed \_\_\_\_\_) when they become known.

I authorize ASSIGNEE to apply for patents of foreign countries for said invention(s), and to  
claim all rights of priority without further authorization from me.

I agree to execute any and all papers useful in connection with any and all United States and  
foreign applications (including international, regional, and foreign national applications), and

ASSIGNMENT OF INVENTION

generally to do everything possible to aid ASSIGNEE, its successors, assigns and nominees, at their request and reasonable expense, in obtaining and enforcing patents for said invention(s) in all countries.

I hereby covenant that no assignment, sale, license, agreement, or encumbrance has been or will be made or entered into that would conflict with this Assignment.

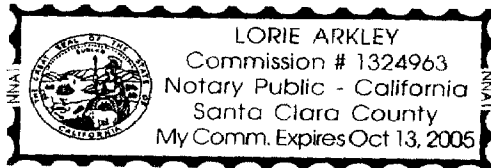
I authorize and request the Commissioner of Patents and Trademarks to issue any U.S. Letters Patent that may be granted for said invention(s) to ASSIGNEE, its successors or assigns.

Executed on April 18, 2003 by Roy E. Scheuerlein  
Roy E. Scheuerlein

----- Notary Use Below -----

State of CALIF  
County of SANTA CLARA

On 4-18-03, Roy E. Scheuerlein, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to within this instrument, personally appeared before me and acknowledged to me that he/~~she~~ executed this instrument in his/~~her~~ authorized capacity, and that by his/~~her~~ signature, he/~~she~~ or the entity upon behalf of which he/~~she~~ acted, executed the instrument.



WITNESS my hand and official seal.

Lorie Arkley  
Signature of Notary

Executed on April 22, 2003 by Christopher Petti  
 Christopher Petti

----- Notary Use Below -----

State of CALIF  
 County of SANTA CLARA

On 4-22-03, Christopher Petti, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to within this instrument, personally appeared before me and acknowledged to me that he/she executed this instrument in his/her authorized capacity, and that by his/her signature, he/she or the entity upon behalf of which he/she acted, executed the instrument.



WITNESS my hand and official seal.

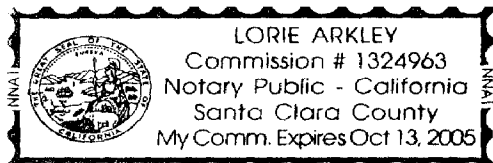
Lorie Arkley  
 Signature of Notary

Executed on 18<sup>th</sup> April, 2003 by Andrew J. Walker  
 Andrew J. Walker

----- Notary Use Below -----

State of CALIF  
 County of SANTA CLARA

On 4-18-03, Andrew J. Walker, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to within this instrument, personally appeared before me and acknowledged to me that he/she executed this instrument in his/her authorized capacity, and that by his/her signature, he/she or the entity upon behalf of which he/she acted, executed the instrument.



WITNESS my hand and official seal.

Lorie Arkley  
 Signature of Notary

Executed on 04-22-03, 2003 by En-Hsing Chen  
En-Hsing Chen

----- Notary Use Below -----

State of CALIF  
County of SANTA CLARA

On 4-22-03, En-Hsing Chen, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to within this instrument, personally appeared before me and acknowledged to me that he/~~she~~ executed this instrument in his/~~her~~ authorized capacity, and that by his/~~her~~ signature, he/~~she~~ or the entity upon behalf of which he/~~she~~ acted, executed the instrument.



WITNESS my hand and official seal.

Lorie Arkley  
Signature of Notary

Executed on 4/18/, 2003 by Sucheta Nallamothu  
Sucheta Nallamothu

----- Notary Use Below -----

State of CALIF  
County of SANTA CLARA

On 4-18-03, Sucheta Nallamothu, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to within this instrument, personally appeared before me and acknowledged to me that he/~~she~~ executed this instrument in his/~~her~~ authorized capacity, and that by his/~~her~~ signature, he/~~she~~ or the entity upon behalf of which he/~~she~~ acted, executed the instrument.



WITNESS my hand and official seal.

Lorie Arkley  
Signature of Notary

Executed on April 17<sup>th</sup>, 2003 by Alper Ilkbahar  
Alper Ilkbahar

----- Notary Use Below -----

State of CALIF  
County of SANTA CLARA

On 4-18-03, Alper Ilkbahar, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to within this instrument, personally appeared before me and acknowledged to me that he/~~she~~ executed this instrument in his/~~her~~ authorized capacity, and that by his/~~her~~ signature, he/~~she~~ or the entity upon behalf of which he/~~she~~ acted, executed the instrument.



WITNESS my hand and official seal.

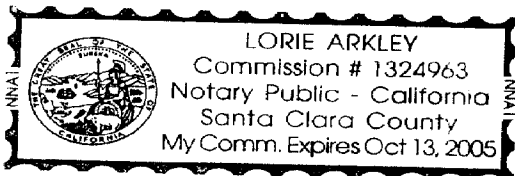
Lorie Arkley  
Signature of Notary

Executed on April 18<sup>th</sup>, 2003 by Luca Fasoli  
Luca Fasoli

----- Notary Use Below -----

State of CALIF  
County of SANTA CLARA

On 4-18-03, Luca Fasoli, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to within this instrument, personally appeared before me and acknowledged to me that he/~~she~~ executed this instrument in his/~~her~~ authorized capacity, and that by his/~~her~~ signature, he/~~she~~ or the entity upon behalf of which he/~~she~~ acted, executed the instrument.



WITNESS my hand and official seal.

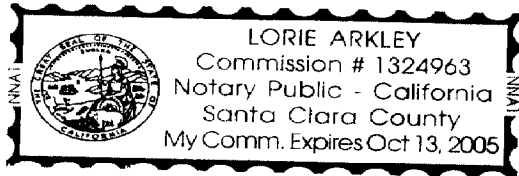
Lorie Arkley  
Signature of Notary

Executed on April 30, 2003 by Igor Koutnetsov  
Igor ~~Koutnetsov~~ KOUZNETSOV

----- Notary Use Below -----

State of CALIF  
County of SANTA CLARA

On 4-30-03, Igor Koutnetsov, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to within this instrument, personally appeared before me and acknowledged to me that he/~~she~~ executed this instrument in his/~~her~~ authorized capacity, and that by his/~~her~~ signature, he/~~she~~ or the entity upon behalf of which he/~~she~~ acted, executed the instrument.



WITNESS my hand and official seal.

Lorie Arkley  
Signature of Notary