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rademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

- (a) Mark G. Johnson
- (b) Joseph G. Nolan, III
- (c) Matthew P. Crowley

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

Yes  No

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

Name: Matrix Semiconductor, Inc.

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

Street Address: 3230 Scott Blvd.

City: Santa Clara State: CA ZIP: 95054

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

3. Nature of Conveyance:

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

Execution Date: (a)(c) Dec. 20, 2000; (b) Dec. 21, 2000

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)(c) Dec. 20, 2000; (b) Dec. 21, 2000

A. Patent Application No.:

B. Patent No.:

09748815

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: 1

7. Total Fee (37 CFR 3.41): \$ 40.00
- A check is enclosed for the Total Fee shown above
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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

Andrew C. Graham  
Signature

12/22/00  
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PATENT  
REEL: 011396 FRAME: 0620

JCS12 U.S. PTO  
09/748815  
12/22/00

# ASSIGNMENT OF INVENTION

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

Mark G. Johnson of Los Altos, CA  
Joseph G. Nolan, III of San Jose, CA  
Matthew P. Crowley of San Jose, CA

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.: \_\_\_\_\_, filed on \_\_\_\_\_
- International Application No.: PCT/\_\_\_\_\_, filed on \_\_\_\_\_

ENTITLED: **CHARGE PUMP CIRCUIT**, and naming as

INVENTOR(S): Mark G. Johnson, Joseph G. Nolan, III, and Matthew P. Crowley

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  
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.

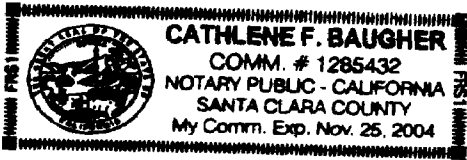
I authorize and request the Commissioner of Patents and Trademarks to issue any U.S.  
Letters Patent that may be granted for said invention(s) to ASSIGNEE, its successors or  
assigns.

Executed on Dec 20, 2000 by Mark G. Johnson  
Mark G. Johnson

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

State of California  
County of Santa Clara

On December 20, 2000, Mark G. Johnson, 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.

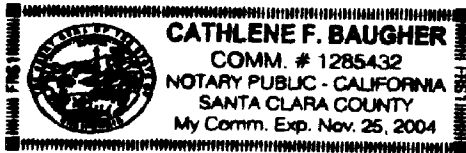
Cathlene F. Baugher  
Signature of Notary

Executed on Dec 21, 2000 by Joseph G. Nolan, III  
Joseph G. Nolan, III

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

State of California  
County of Santa Clara

On December 21, 2000, Joseph G. Nolan, III, 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.

Cathlene F. Baugher  
Signature of Notary

Executed on December 20, 2000 by Matthew P. Crowley  
Matthew P. Crowley

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

State of California  
County of Santa Clara

On December 20, 2000, Matthew P. Crowley, 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.

Cathlene F. Baugher  
Signature of Notary