

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Michael W. Konevecki</td><td>09/28/2004</td></tr><tr><td>Usha Raghuram</td><td>09/28/2004</td></tr><tr><td>Maitreyee Mahajani</td><td>09/29/2004</td></tr><tr><td>Sucheta Nallamothe</td><td>09/28/2006</td></tr><tr><td>Andrew J. Walker</td><td>09/28/2004</td></tr><tr><td>Tanmay Kumar</td><td>09/28/2004</td></tr></tbody></table>	Name	Execution Date	Michael W. Konevecki	09/28/2004	Usha Raghuram	09/28/2004	Maitreyee Mahajani	09/29/2004	Sucheta Nallamothe	09/28/2006	Andrew J. Walker	09/28/2004	Tanmay Kumar	09/28/2004	
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Andrew J. Walker	09/28/2004														
Tanmay Kumar	09/28/2004														
RECEIVING PARTY DATA															
Name:	Matrix Semiconductor														
Street Address:	3230 Scott Blvd.														
City:	Santa Clara														
State/Country:	CALIFORNIA														
Postal Code:	95054														
PROPERTY NUMBERS Total: 1															
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12897696</td></tr></tbody></table>	Property Type	Number	Application Number:	12897696											
Property Type	Number														
Application Number:	12897696														
CORRESPONDENCE DATA															
Fax Number: (415)369-9665															
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
Phone: 415-369-9660															
Email: hkim@vierramagen.com															
Correspondent Name: Ralph F. Hoppin															
Address Line 1: 575 Market Street															
Address Line 2: Suite 2500															
Address Line 4: San Francisco, CALIFORNIA 94105															
ATTORNEY DOCKET NUMBER:	SAND-01172US2 (SDUF)														

CH \$40.00 12897696

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PATENT
REEL: 025132 FRAME: 0540

NAME OF SUBMITTER:

Ralph F. Hoppin

Total Attachments: 8

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10/955,710

Case No. MA-123

ASSIGNMENT

WHEREAS, Michael W. Konevecki, Usha Raghuram, Maitreyee Mahajani, Sucheta Nallamotheu, Andrew J. Walker and Tanmay Kumar, hereinafter called the "Assignors", have made the invention described in the United States patent application entitled Doped Polysilicon Via Connecting Polysilicon Layers, executed by Assignors on the same date as this Assignment;

WHEREAS, MATRIX SEMICONDUCTOR, a corporation organized and existing under the laws of the State of Delaware, having a place of business at 3230 Scott Blvd, 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

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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.

10/955,710

DATED:

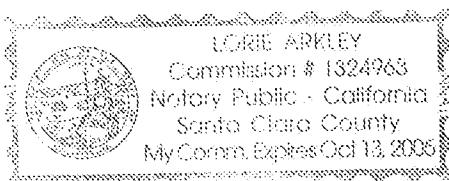
9/28/04

Michael W. Konevecki
Michael W. Konevecki

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 Michael W. Konevecki, 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 28th day of September, 2004.



Lorie Arkley
Notary Public

10/955,710

DATED:

9/28/04

Usha Raghuram
Usha Raghuram

STATE OF CALIF

)

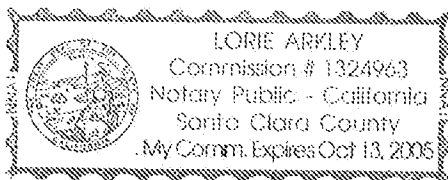
) ss.

COUNTY OF SANTA CLARA

)

LORIE ARKLEY, A Notary Public in and for the County and State aforesaid, do hereby certify that Usha Raghuram, 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 28th day of September, 2004.



Lorie Arkley
Notary Public

10/955,710

DATED:

9/29/04

Maitreyee Mahajani
Maitreyee Mahajani

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 Maitreyee Mahajani, 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 September, 2004.



Lorie Arkley
Notary Public

10/955,710

DATED:

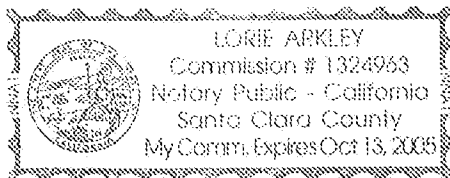
9/28/04

Sucheta Nallamothu
Sucheta Nallamothu

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 Sucheta Nallamothu, 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 28th day of September, 2004.

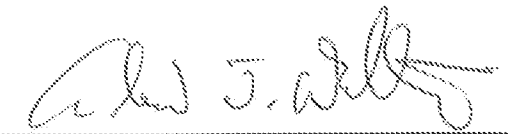


Lorie Arkley
Notary Public

10/955,710

DATED:

9/28/04

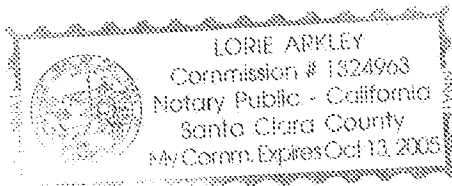


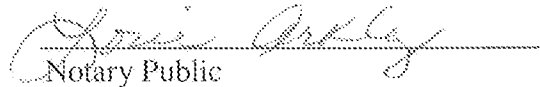
Andrew J. Walker

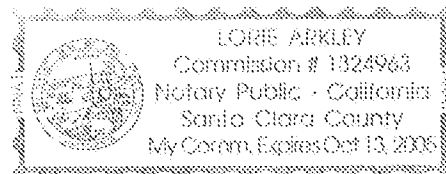
STATE OF CALIF)
) ss.
COUNTY OF SANTA CLARA)

I, LORIE ARKLEY, A Notary Public in and for the County and State aforesaid, do hereby certify that Andrew J. Walker, 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 28th day of September, 2004.




Notary Public



10/955,710

DATED:

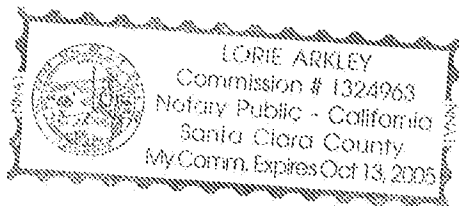
09/28/04

Tanmay Kumar
Tanmay Kumar

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 Tanmay Kumar, 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 28th day of September, 2004.



Lorie Arkley
Notary Public