

10-22-2003

Form PTO-1595
(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

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102580786

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

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

1. Name of conveying party(ies):
Shuo Gu and James M. Cleaves

10-7-03

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: 10-7-03; 10-7-03

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

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

10681509

If this document is being filed together with a new application, the execution date of the application is: 10/7/03

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Matrix Semiconductor, Inc.

Internal Address: _____

Street Address: 3230 Scott Blvd

City: Santa Clara State: CA Zip: 95054

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41).....\$ 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

502302

(Attach duplicate copy of this page if paying by deposit account)

10/21/2003 DRYRNE 00000104 502302 10681509

01 FC: 021 40.00 DA

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.

PAMELA T. SQUIRES, reg 52246
Name of Person Signing

[Signature]
Signature

10/6/03
Date

Total number of pages including cover sheet, attachments, and documents:

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

PATENT
REEL: 014604 FRAME: 0309

19270 U.S. PTO
10/681509



ASSIGNMENT

WHEREAS, Shuo Gu and James M. Cleeves, hereinafter called the "Assignors", have made the invention described in the United States patent application entitled Uniform Seeding to Control Grain and Defect Density of Crystallized Silicon for Use in Sub-Micron Thin Film Transistors, 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

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:

10/07/2003

Shuo Gu
Shuo Gu

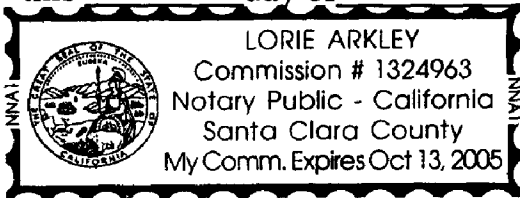
STATE OF California

ss.

COUNTY OF Santa Clara

I, Lorie Arkley, A Notary Public in and for the County and State aforesaid, do hereby certify that Shuo Gu, 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 _____ day of _____, 2003



Lorie Arkley
Notary Public

My Commission Expires: 10-13-05

DATED:

10/7/03

James M. Cleeves
James M. Cleeves

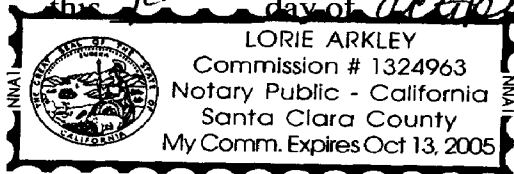
STATE OF California

ss.

COUNTY OF Santa Clara

I, Lorie Arkley, A Notary Public in and for the County and State aforesaid, do hereby certify that James M. Cleeves, 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 7th day of October, 2003



Lorie Arkley
Notary Public

My Commission Expires: 10-13-05