

S-24-04

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U.S. DEPARTMENT OF COMMERCE

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Patent and Trademark Office  
Docket No. 100-24900 (P05854)

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

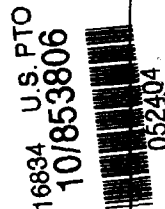
QIANG LUO  
ERIC STATON  
CHRISTINA PHAN  
CARON YVONNE THOR  
EDITH KWONG  
CHRIS PAPALIAS

- Individual(s)
- General Partnership
- Corporation-State
- Association
- Limited Partnership
- Other

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

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

Name: NATIONAL SEMICONDUCTOR CORPORATION  
Address: 2900 Semiconductor Drive, M/S D3-579  
City: Santa Clara State: CA  
Zip Code: 95051-8090



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

3. Nature of conveyance:

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

Execution Date: 05/24/04, 05/21/04, 05/24/04, 05/21/04, 05/24/04 and 05/24/04

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

If this document is being filed with a new application, the execution date of the application is: 05/24/04, 05/21/04, 05/24/04, 05/21/04, 05/24/04 and 05/24/04

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:

Mark C. Pickering, Esq.  
Law Offices of Mark C. Pickering  
P.O. Box 300  
Petaluma, CA 94953-0300  
Customer No. 33402

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. § 3.41): \$40.00

- Enclosed
- Authorized to be charged to deposit account, referencing Attorney Docket No.

8. Deposit account number:

The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §1.21 that may be required by this paper, or to credit any overpayment to Deposit Account No. 502305

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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.

Name: Mark C. Pickering  
Registration No. 36,239

*Mark C. Pickering*  
Signature

Date: 5-24-04

Total number of pages comprising cover sheet, attachments and document: 5

Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignment Recordation Services  
Director of the U.S. Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

Express Mail Number EV530655408US

PATENT

Attorney Docket No. 100-24900 [P05854]

ASSIGNMENT

WHEREAS, WE, QIANG LUO, ERIC STATON, CHRISTINA PHAN, CARON YVONNE THOR, EDITH KWONG and CHRIS PAPALIAS, hereinafter referred to as "ASSIGNORS", have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: Method of Operating an Array of Active Pixel Sensor Cells  
Application Execution Date. (Date Declaration Signed): \_\_\_\_\_  
Filing Date: Herewith Appln. No.: New

WHEREAS, NATIONAL SEMICONDUCTOR CORPORATION, a corporation of the State of Delaware, 2900 Semiconductor Drive, M/S D3-579, Santa Clara, California 95051-8090, hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in the said invention and application and in any Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to Assignors by Assignee, receipt of which is hereby acknowledged, Assignors has sold, assigned and transferred, and by these presents do sell, assign and transfer unto said Assignee, and Assignee's successors and assigns, all right, title and interest in and to the said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, the said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignors had this assignment and transfer not been made, to the full end and term of any Letters Patent.

Assignors further agree that they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignor has hereunto signed his/her name to this assignment on the dates indicated below.

Dated: 05/24/04

Qiang Luo  
QIANG LUO

State of California

County of Santa Clara

On 5/24/2004 before me, Karen L. Metz (Notary Public), personally appeared Qiang Luo, personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Karen L. Metz  
Signature of Notary



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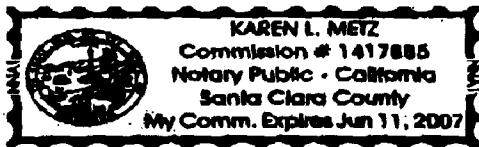
Attorney Docket No. 100-24800 [P05854]

IN TESTIMONY WHEREOF, Assignor has hereunto signed his/her name to this assignment on the dates indicated below.

Dated: 5/21/04 Eric Staton  
ERIC STATON

State of California  
County of Santa Clara

On 5/21/04 before me, Karen L. Metz (Notary Public), personally appeared Eric Staton, personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.  
Karen L. Metz  
Signature of Notary

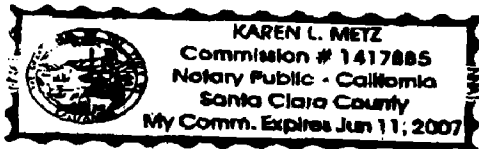
SEAL

IN TESTIMONY WHEREOF, Assignor has hereunto signed his/her name to this assignment on the dates indicated below.

Dated: 5/24/04 Christina Phan  
CHRISTINA PHAN

State of California  
County of Santa Clara

On 5/24/2004 before me, Karen L. Metz (Notary Public), personally appeared Christina Phan, personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.  
Karen L. Metz  
Signature of Notary

SEAL

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Rev. 07/17/03

**PATENT**

Attorney Docket No. 100-24900 [P05854]

IN TESTIMONY WHEREOF, Assignor has hereunto signed his/her name to this assignment on the dates indicated below.

Dated: 5/21/04  
State of California  
County of Santa Clara

Caron Thor  
CARON YVONNE THOR  
Caron Yvonne Thor C.T.

On 5/21/04 before me, Karen L. Metz, (Notary Public), personally appeared Caron Yvonne Thor, personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Karen L. Metz  
Signature of Notary

SEAL

IN TESTIMONY WHEREOF, Assignor has hereunto signed his/her name to this assignment on the dates indicated below.

Dated: 5/24/04  
State of California  
County of Santa Clara

Edith Kwong  
EDITH KWONG

On 5/24/2004 before me, Karen L. Metz, (Notary Public), personally appeared Edith Kwong, personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Karen L. Metz  
Signature of Notary

SEAL

**PATENT**

Attorney Docket No. 100-24900 [P05864]

IN TESTIMONY WHEREOF, Assignor has hereunto signed his/her name to this assignment on the dates indicated below.

Dated: 5/24/04

[Signature]  
CHRIS PAPALIAS

State of California

County of Santa Clara

Karen L. Metz KLM

On 5/24/2004 before me, Chris Papalias (Notary Public).

personally appeared Chris Papalias, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[Signature]  
Signature of Notary



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