

06-08-2000



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PATENTS ONLY

EET

U.S. DEPARTMENT OF COMMERCE
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):
Om P. Agrawal, Claudia A. Stanley, Xiaojie
(Warren) He, Larry R. Metzger, Robert A.
Simon, Kerry A. Ilgenstein
(signed in counterpart)
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies):
Name: Lattice Semiconductor Corporation
Address: 5555 N.E. Moore Court
Hillsboro, Oregon 97124-6421

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

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

Execution Date: 04/28/00, 05/01/00, 05/05/00

4. Application number(s) or patent number(s):
A. Patent Application No.: 09/326,940
Title: Scalable Architecture for High Density
CPLD's Having Two-Level Hierarchy of
Routing Resources
Filed Date: 06/06/99

B. Patent No(s):

Additional numbers attached? Yes No

If this document is being filed together with a new application, the execution date of the application is: N/A

5. Name and address of party to whom
correspondence concerning document should
be mailed:
Name: Martin C. Fliesler
Address: Fliesler, Dubb, Meyer & Lovejoy
Four Embarcadero Center, Suite 400
San Francisco, CA 94111
Telephone: (415) 362-3800

6. Total Number of applications and patents
involved: 1 x \$40.00 each

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

Check Enclosed

8. Fee Authorization. Authorization is given to charge
any additional fees or credit any
overpayment to Deposit Account
No. 06-1325.
Copy. (A duplicate copy of this authorization is
not enclosed.)

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.*

Gideon Gimlan
Attorney (Reg. No.: 31,955)

[Signature]
Signature

5-12-2000
Date

10. Total number of pages to be recorded: 16 (1 page cover sheet and 15 page document).

06/06/2000 DNGUYEN 00000225 09326940

01 FC:581 40.00 OF

Attorney Docket No.: LATC-01021US0 MCF/GGG
ggg/vant/1021.029.wpd

- 1 -

260.001:100197
05/09/00-17:4

Signed in counterpart by: Om P. Agrawal

JOINT TO CORPORATE ASSIGNMENT

WHEREAS, the undersigned Inventors:

(1) OM P. AGRAWAL,
a resident of 891 Highlands Circle, Los Altos, California 94024; and

(2) CLAUDIA A. STANLEY,
a resident of 12711 Marimba Trail, Austin, Texas 78729; and

(3) XIAOJIE (WARREN) HE,
a resident of 11901 Hobby Horse Court, #1428, Austin, Texas 78758; and

(4) LARRY R. METZGER,
a resident of 7909 Shantivana Trail, Austin, Texas 78737; and

(5) ROBERT A. SIMON,
a resident of 6847 Prince Drive, Colorado Springs, Colorado 80918; and

(6) KERRY A. ILGENSTEIN,
a resident of 4900 Sapling Cove, Austin, Texas 78735; and

have invented certain new and useful improvements in:

**SCALABLE ARCHITECTURE FOR HIGH DENSITY CPLD'S
HAVING TWO-LEVEL HIERARCHY OF ROUTING RESOURCES**

and have executed a declaration or oath for an application for a United States patent disclosing and identifying the invention:

Said application having SC/Serial Number 09/326,940 and filed on the 6th day of June, 1999.

WHEREAS Lattice Semiconductor Corporation (hereinafter termed "Assignee"), a corporation of the State of Delaware, having a place of business at 5555 N.E. Moore Court, Hillsboro, Oregon, 97124-6421, wishes to acquire the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, certificates of invention and other forms of protection thereon (hereinafter termed "patents") applied for or granted in the United States and/or other countries.

NOW THEREFORE, for good and valuable consideration acknowledged by each of said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey to said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply in any or all countries of the world for patents, certificates of inventions or other governmental grants on said invention, including the right to apply for patents pursuant to the International Convention for the Protection of Industrial Property or pursuant to any other convention, treaty, agreement or understanding; (c) in and to any and all applications filed and any and all patents, certificates of inventions or other governmental grants granted on said invention in the United States or any other country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; (d) in and to each and every reissue or extension of any of said patents; and (e) in and to each and every patent claim resulting from a reexamination certificate for any and all of said patents.

2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and other countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, executing of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for complying with any duty of disclosure; (c) for prosecuting any of said applications; (d) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (e) for filing and prosecuting applications for reissue of any of said patents; (f) for interference or other priority proceedings involving said invention; and (g) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, reexamination proceedings, compulsory licensing proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this Assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

4. Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Inventors have executed this instrument on the date of acknowledgement before the Notary Public as given below and delivered this instrument to said Assignee.

(1) Om P. Agrawal
(Inventor's Signature)

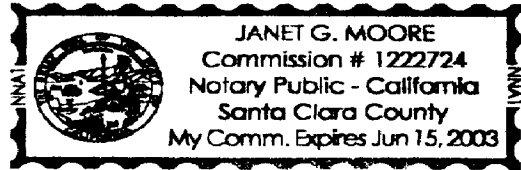
State of CALIFORNIA
County of SANTA CLARA

On May 5, 2000 before me, Janet G. Moore, Notary Public,
(name and title of officer)

personally appeared Om P. Agrawal, 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.

Signature Janet G. Moore



(2) _____
(Inventor's Signature)

State of _____
County of _____

On _____ before me, _____,
(name and title of officer)

personally appeared _____, 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.

Signature _____

(3) _____
(Inventor's Signature)

State of _____)
County of _____)

On _____ before me, _____,
(name and title of officer)

personally appeared _____, 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.

Signature _____

(4) _____
(Inventor's Signature)

State of _____)
County of _____)

On _____ before me, _____,
(name and title of officer)

personally appeared _____, 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.

Signature _____

(5) _____
(Inventor's Signature)

State of _____)
County of _____)

On _____ before me, _____,
(name and title of officer)

personally appeared _____, 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.

Signature _____

(6) _____
(Inventor's Signature)

State of _____)
County of _____)

On _____ before me, _____,
(name and title of officer)

personally appeared _____, 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.

Signature _____

Signed in counterpart by: Robert A. Simon

JOINT TO CORPORATE ASSIGNMENT

WHEREAS, the undersigned Inventors:

(1) OM P. AGRAWAL,
a resident of 891 Highlands Circle, Los Altos, California 94024; and

(2) CLAUDIA A. STANLEY,
a resident of 12711 Marimba Trail, Austin, Texas 78729; and

(3) XIAOJIE (WARREN) HE,
a resident of 11901 Hobby Horse Court, #1428, Austin, Texas 78758; and

(4) LARRY R. METZGER,
a resident of 7909 Shantivana Trail, Austin, Texas 78737; and

(5) ROBERT A. SIMON,
a resident of 6847 Prince Drive, Colorado Springs, Colorado 80918; and

(6) KERRY A. ILGENSTEIN,
a resident of 4900 Sapling Cove, Austin, Texas 78735; and

have invented certain new and useful improvements in:

**SCALABLE ARCHITECTURE FOR HIGH DENSITY CPLD'S
HAVING TWO-LEVEL HIERARCHY OF ROUTING RESOURCES**

and have executed a declaration or oath for an application for a United States patent disclosing and identifying the invention:

Said application having SC/Serial Number 09/326,940 and filed on the 6th day of June, 1999.

WHEREAS Lattice Semiconductor Corporation (hereinafter termed "Assignee"), a corporation of the State of Delaware, having a place of business at 5555 N.E. Moore Court, Hillsboro, Oregon 97124-6421, wishes to acquire the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, certificates of invention and other forms of protection thereon (hereinafter termed "patents") applied for or granted in the United States and/or other countries.

NOW THEREFORE, for good and valuable consideration acknowledged by each of said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey to said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply in any or all countries of the world for patents, certificates of inventions or other governmental grants on said invention, including the right to apply for patents pursuant to the International Convention for the Protection of Industrial Property or pursuant to any other convention, treaty, agreement or understanding; (c) in and to any and all applications filed and any and all patents, certificates of inventions or other governmental grants granted on said invention in the United States or any other country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; (d) in and to each and every reissue or extension of any of said patents; and (e) in and to each and every patent claim resulting from a reexamination certificate for any and all of said patents.

2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and other countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, executing of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for complying with any duty of disclosure; (c) for prosecuting any of said applications; (d) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (e) for filing and prosecuting applications for reissue of any of said patents; (f) for interference or other priority proceedings involving said invention; and (g) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, reexamination proceedings, compulsory licensing proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this Assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

4. Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Inventors have executed this instrument on the date of acknowledgement before the Notary Public as given below and delivered this instrument to said Assignee.

(1) _____
(Inventor's Signature)

State of _____)
County of _____)

On _____ before me, _____,
(name and title of officer)

personally appeared _____, 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.

Signature _____

(2) _____
(Inventor's Signature)

State of _____)
County of _____)

On _____ before me, _____,
(name and title of officer)

personally appeared _____, 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.

Signature _____

(3) _____
(Inventor's Signature)

State of _____)
County of _____)

On _____ before me, _____,
(name and title of officer)

personally appeared _____, 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.

Signature _____

(4) _____
(Inventor's Signature)

State of _____)
County of _____)

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(name and title of officer)

personally appeared _____, 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.

Signature _____

(5) [Signature]
(Inventor's Signature)

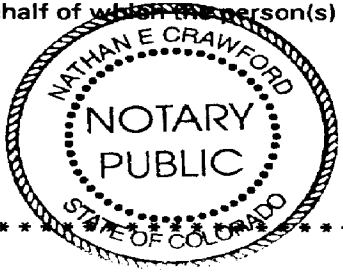
State of Colorado
County of El Paso

On April 28, 2000 before me, Nathan E. Crawford, Notary Public,
(name and title of officer)

personally appeared Robert Simon, 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.

Signature Nathan E. Crawford
My Commission Expires 05/07/2001



(6) _____
(Inventor's Signature)

State of _____
County of _____

On _____ before me, _____
(name and title of officer)

personally appeared _____, 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.

Signature _____

Signed in counterpart by: Claudia A. Stanley, Xiaojie (Warren) He, Larry R. Metzger,
Kerry A. Ilgenstein

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(1) OM P. AGRAWAL,
a resident of 891 Highlands Circle, Los Altos, California 94024; and

(2) CLAUDIA A. STANLEY,
a resident of 12711 Marimba Trail, Austin, Texas 78729; and

(3) XIAOJIE (WARREN) HE,
a resident of ~~11901 Hobby Horse Court, #1428, Austin, Texas 78758~~; and
13329 Tamayo Dr., Austin, Texas 78729 *XH May 1, 2000*

(4) LARRY R. METZGER,
a resident of 7909 Shantivana Trail, Austin, Texas 78737,

(5) ROBERT A. SIMON,
a resident of 6847 Prince Drive, Colorado Springs, Colorado 80918; and

(6) KERRY A. ILGENSTEIN,
a resident of 4900 Sapling Cove, Austin, Texas 78735,

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IN WITNESS WHEREOF, the said Inventors have executed this instrument on the date of acknowledgement before the Notary Public as given below and delivered this instrument to said Assignee.

(1) _____
(Inventor's Signature)

State of _____)
County of _____)

On _____ before me, _____
(name and title of officer)

personally appeared _____, 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.

Signature _____

(2) Claudia A. Stanley
(Inventor's Signature)

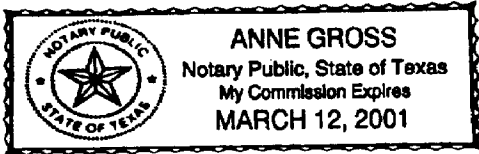
State of Texas)
County of Davis)

On May 1, 2000 before me, Anne Gross
(name and title of officer)

personally appeared Claudia A. Stanley, 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.

Signature Anne Gross



(3) Xiaotie He
(Inventor's Signature)

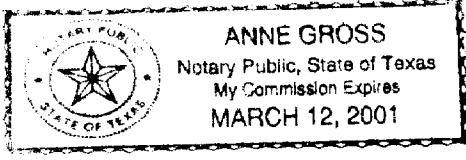
State of Texas
County of Texas

On May 1, 2000 before me, Anne Gross
(name and title of officer)

personally appeared XIAOTIE HE, 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.

Signature Anne Gross



(4) Larry R. Metzger
(Inventor's Signature)

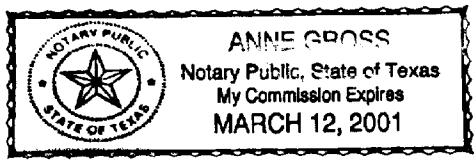
State of Texas
County of Texas

On May 1, 2000 before me, Anne Gross
Larry R. Metzger
(name and title of officer)

personally appeared Larry R. Metzger, 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.

Signature Anne Gross



(5) _____
(Inventor's Signature)

State of _____)
County of _____)

On _____ before me, _____
(name and title of officer)

personally appeared _____, 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.

Signature _____

(6) Kerry A. Ilgenstein
(Inventor's Signature)

State of Texas)
County of Travis)

On May 1, 2000 before me, Anne Gross
(name and title of officer)

personally appeared Kerry A. Ilgenstein, 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.

Signature Anne Gross

