

01-12-1999



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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

PATENTS ONLY

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
Herman M. Chang
Bradley A. Sharpe-Geisler
Bai Nguyen
Giap H. Tran

AMD
12-16-98

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

Name: VANTIS CORPORATIONAddress: 995 Stewart DriveSunnyvale, California 94088Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherAdditional name(s) & address(es) attached? ☐ Yes ☒ NoExecution Date: 12/14/98, 12/15/98

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

A. Patent Application No.: Unassigned

Title: Methods For Configuring FPGA's Having
Variable Grain Blocks and Shared Logic For
Providing Symmetric Routing Of Result Output To
Differently-Directed and Tristateable Interconnect
Resources

Filed Date: Herewith

B. Patent No(s):

09 / 216,662

Additional numbers attached? ☐ Yes ☒ NoIf this document is being filed together with a new application, the execution date of the application is: 12/14/98, 12/15/98

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

Name: Martin C. FlieslerAddress: Fliesler, Dubb, Meyer & LovejoyFour Embarcadero Center, Suite 400San Francisco, CA 94111Telephone: (415) 362-38006. Total Number of applications and patents involved: 1 X \$40.00 each7. 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 GimlanAttorney (Reg. No.: 31,955)

Signature

Date

12-16-98

10. Total number of pages to be recorded: 6 (1 page cover sheet and 5 page document).

JOINT TO CORPORATE ASSIGNMENT

WHEREAS, the undersigned Inventors:

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

(2) BRADLEY A. SHARPE-GEISLER,
a resident of 1416 Dot Court, San Jose, California 95120; and

(3) HERMAN M. CHANG,
a resident of 10234 Miner Place, Cupertino, California 95014; and

(4) BAI NGUYEN,
a resident of 2611 Kendrick Circle, San Jose, California 95121; and

(5) GIAP H. TRAN,
a resident of 3602 Carick Place Way, San Jose, California 95121

have invented certain new and useful improvements in:

**METHODS FOR CONFIGURING FPGA'S HAVING VARIABLE GRAIN BLOCKS
AND SHARED LOGIC FOR PROVIDING SYMMETRIC ROUTING OF RESULT OUTPUT
TO DIFFERENTLY-DIRECTED AND TRISTATEABLE INTERCONNECT RESOURCES**

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

1. ☒ On the Date of Execution of Declaration for Patent Application set forth below adjacent to my signature;

Or

2. ☐ Said application having SC/Serial Number / , and filed on the day of , 19 .

WHEREAS VANTIS CORPORATION (hereinafter termed "Assignee"), a corporation of the State of Delaware, having a place of business at 995 Stewart Drive, Sunnyvale, State of California, 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.

Date of Execution of Declaration for Patent Application: 12/14/98

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

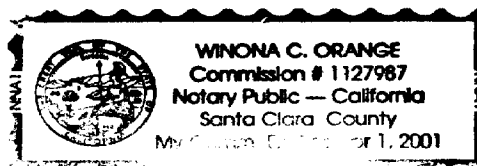
State of California
County of Santa Clara

On December 14, 1998 before me, Winona C. Orange, 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 Winona C. Orange



Date of Execution of Declaration for Patent Application: 12-14-98

(2) Brad G. Geister
(Inventor's Signature)

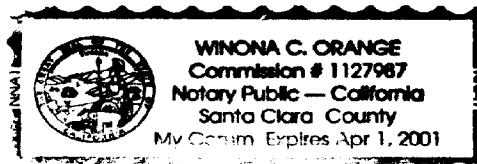
State of California
County of Santa Clara

On December 14, 1998 before me, Winona C. Orange, Notary Public
(name and title of officer)

personally appeared Brad Sharpe-Geister, 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 Winona C. Orange



Date of Execution of Declaration for Patent Application: 12/15/98

(3) Herman M. Chang
(Inventor's Signature)

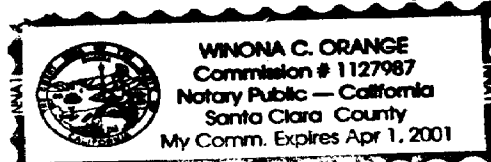
State of California
County of Santa Clara

On December 15, 1998 before me, Winona C. Orange, Notary Public
(name and title of officer)

personally appeared Herman M. Chang, 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 Winona C. Orange



Date of Execution of Declaration for Patent Application: 12/15/98

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

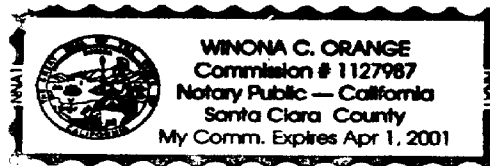
State of California
County of Santa Clara

On December 15, 1998 before me, Winona C. Orange, Notary Public
(name and title of officer)

personally appeared Bai Nguyen, 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 Winona C. Orange



Date of Execution of Declaration for Patent Application: 12-15-98

(5) Giap
(Inventor's Signature)

State of California

County of Santa Clara

On December 15, 1998 before me, Winona C. Orange, Notary Public
(name and title of officer)

personally appeared Giap H. Tran, 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 Winona C. Orange

