

12/30/04

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



102920978

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office
Attorney Docket No. XSI.098/10X-294

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

1. Name of conveying party(ies):

(1) Bo WANG
(2) Adrian MACIAS

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

2. Name and address of receiving party(ies)

Name: Freescal Semiconductor, Inc.
Street Address: 6501 Williams Cannon Drive
West
Austin, TX 78735

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

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date(s): (1): December 22, 2004;
(2) December 30, 2004

12879 U.S. PTO
11/024804



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

Month Day Year

If this document is being filed together with a new application, the execution date of the application is: (1): December 22, 2004;
(2): December 30, 2004

A. Patent Application No.(s)

01/05/2005 AKELECH1 00000047 11024804

B. Patent No.(s)

04 FC:8021

40.00 DP

Additional numbers attached? Yes No

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

Name: Brian C. Altmiller

Internal Address: _____

Street Address: Posz & Bethards, PLC

11250 Roger Bacon Drive, Suite 10

City: Reston State: VA Zip: 20190

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41). \$ 40

Enclosed

Authorized to be charged to deposit account

8. Deposit account number:

50-1147

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

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.

Brian C. Altmiller (Reg. No. 37,271)

Name of Person Signing

Brian C. Altmiller
Signature

December 30, 2004

Date

Total number of pages including cover sheet, attachments, and documents: 5

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Alexandria, VA 22313-1450

PATENT
REEL: 016146 FRAME: 0538

ASSIGNMENT AND AGREEMENT

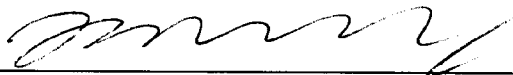
For good and valuable consideration, the receipt of which is hereby acknowledged, we, **Bo Wang of 14528 Snapdragon Circle, North Potomac, MD 20878, USA** and **Adrian R. Macias of 3505 Came Drive #72, Oceanside, CA 92056, USA** have sold, assigned and transferred, and do hereby sell, assign and transfer unto **FREESCALE SEMICONDUCTOR, INC.**, a corporation of the State of Delaware, having its principal office in **6501 Williams Cannon Drive West, Austin, TX 78735, United States of America**, and its successors, assigns, and legal representatives, the entire right, title and interest for the United States of America in and to certain inventions relating to improvements in **PARALLEL DECODER FOR ULTRAWIDE BANDWIDTH RECEIVER**, (Attorney Docket No. **XSI.098/10X-294**), described, illustrated and claimed in an application for Letters Patent of the United States of America executed by us of even date herewith, together with the entire right, title and interest in and to said application, and in and to Letters Patent which may be issued upon said application, and upon any division, extension, continuation, or reissue thereof.

We hereby also sell, assign and transfer unto the said **FREESCALE SEMICONDUCTOR, INC.**, the entire right, title and interest in and to said invention and in and to applications for Letters Patent therefor in all countries foreign to the United States of America, including all rights under any and all international conventions and treaties in respect of said inventions and said applications for Letters Patent in foreign countries, and we further authorize the said **FREESCALE SEMICONDUCTOR, INC.** to apply for Letters Patent in foreign countries directly in its own name, and to claim the priority of the filing date of the said application for Letters Patent of the United States of America under the provisions of any and all international conventions and treaties.

We hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America to issue Letters Patent upon the aforesaid application, division, extension, continuation or reissue, to the said **FREESCALE SEMICONDUCTOR, INC.**, for the sole use and behalf of said **FREESCALE SEMICONDUCTOR, INC.**, its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted, the same as they would have been held and enjoyed by us had this assignment not been made, and we hereby authorize and request the equivalent authorities in foreign countries to issue the patents of their respective countries to the said **FREESCALE SEMICONDUCTOR, INC.**

We agree that, when requested, we will, without charge to said **FREESCALE SEMICONDUCTOR, INC.**, but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said **FREESCALE SEMICONDUCTOR, INC.**, its successors, assigns and legal representatives or nominees.

We covenant with said **FREESCALE SEMICONDUCTOR, INC.**, its successors, assigns and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.



Bo Wang

Date: _____

12/22/04

Adrian R. Macias

Date: _____

ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **Bo Wang of 14528 Snapdragon Circle, North Potomac, MD 20878, USA** and **Adrian R. Macias of 3505 Came Drive #72, Oceanside, CA 92056, USA** have sold, assigned and transferred, and do hereby sell, assign and transfer unto **FREESCALE SEMICONDUCTOR, INC.**, a corporation of the State of Delaware, having its principal office in **6501 Williams Cannon Drive West, Austin, TX 78735, United States of America**, and its successors, assigns, and legal representatives, the entire right, title and interest for the United States of America in and to certain inventions relating to improvements in **PARALLEL DECODER FOR ULTRAWIDE BANDWIDTH RECEIVER**, (Attorney Docket No. **XSI.098/10X-294**), described, illustrated and claimed in an application for Letters Patent of the United States of America executed by us of even date herewith, together with the entire right, title and interest in and to said application, and in and to Letters Patent which may be issued upon said application, and upon any division, extension, continuation, or reissue thereof.

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We hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America to issue Letters Patent upon the aforesaid application, division, extension, continuation or reissue, to the said **FREESCALE SEMICONDUCTOR, INC.**, for the sole use and behalf of said **FREESCALE SEMICONDUCTOR, INC.**, its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted, the same as they would have been held and enjoyed by us had this assignment not been made, and we hereby authorize and request the equivalent authorities in foreign countries to issue the patents of their respective countries to the said **FREESCALE SEMICONDUCTOR, INC.**

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Bo Wang

Date: _____



Adrian R. Macias

Date: 12/30/04