

07-26-2004

FORM PTO-1595
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)
M&G- 50019.278US01/P05943

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102798751

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

1. Name of conveying party(ies):

Jane Xin-LeBlanc

7-15-04

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

National Semiconductor Corporation
2900 Semiconductor Drive
Santa Clara, California 95051-8090

22278 U.S. PTO
10/892888
071504

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

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

3. Nature of conveyance:

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

Execution Date: July 15, 2004

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

If this document is being filed together with a new application, the execution date of the application is: July 15, 2004

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: Brett A. Hertzberg
Address: Merchant & Gould P.C.
P.O. Box 2903
Minneapolis, MN 55402-0903

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. Please charge any additional fees or credit any overpayments to our Deposit account number: 13-2725

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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.

Brett A. Hertzberg

Name of Person Signing

Signature

July 15, 2004

Date

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PATENT TRADEMARK OFFICE

PATENT
REEL: 015586 FRAME: 0103

ASSIGNMENT

WHEREAS, I, Jane Xin-LeBlanc, residing at 576 Cherrywood Drive, Sunnyvale, California 94087, made certain new and useful inventions and improvements as described and claimed in the specification forming part of an application for Letters Patent of the United States executed herewith, which is entitled PWM CIRCUIT AND METHOD.

AND WHEREAS, National Semiconductor Corporation, a corporation organized and existing under and by virtue of the laws of the State of Delaware, and having an office and place of business at 2900 Semiconductor Drive, Santa Clara, California 95051-8090 (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW THEREFORE, to all whom it may concern, be it known that for good and valuable considerations, the receipt and sufficiency whereof is hereby acknowledged, I have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

AND, for the consideration aforesaid, I do hereby agree that I and my executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to me relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire

right, title and interest in and to the improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore I covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 15th day of July, 2004.

Jane Xin-LeBlanc
Jane Xin-LeBlanc

STATE OF California
COUNTY OF Santa Clara ^{SS.}

On this 15th day of July, 2004, before me personally appeared Jane Xin-LeBlanc to me known and known to me to be the person described in and who executed the foregoing instrument, and she duly acknowledged to me that she executed the same for the uses and purposes therein set forth.

-(SEAL)

Karen L. Metz
Notary Public

