

08-07-2002

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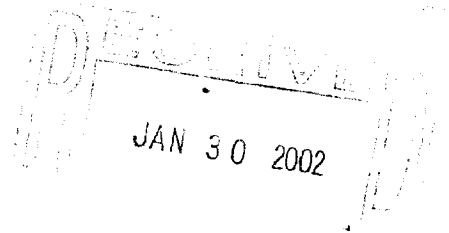
102170766

1.3000

To: Honorable Commissioner of Patents and Trademarks:

Please record the attached original document(s) or copy thereof.

- 1. Name of conveying party(ies)
 - a) Luu Thanh Nguyen
 - b) Ken Pham
 - c) Peter Deane
 - d) William Paul Mazotti
 - e) Bruce Carlton Roberts
 - f) Jia Liu



- 2. Name and address of receiving party(ies):
 - a) Name: National Semiconductor Corporation
 - Address: 2900 Semiconductor Drive
Santa Clara, CA 95051-8090

- 3. Nature of conveyance

<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name
<input type="checkbox"/> Other _____	<input type="checkbox"/> License Agreement

Execution Dates: December 11, 2001 and January 7, 2002

- 4. Application Number(s) or Patent Number(s):

The title of the (new) application is:

102170766

TECHNIQUES FOR JOINING AN OPTOELECTRONIC MODULE TO A SEMICONDUCTOR PACKAGE

- 5. Please send all correspondence concerning this (these) documents to:

Customer Number: 022434
 BEYER WEAVER & THOMAS, LLP
 P.O. Box 778
 Berkeley, CA 94704-0778
 Phone (650) 961-8300
 Fax (650) 961-8301

09947210

- 6. Total number of applications and patents involved: 1

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

Adjustment date: 08/08/2002 TDIAZ1
 02/13/2002 DBYRNE 00000087 09947201
 01 FC:581 -40.00 OP

- Enclosed
- Any additional fees are authorized to be charged to Deposit Account No. 500388 (Order No. NSC1P205)

- 8. 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.

Date: January 10, 2002

Phillip P. Lee
Registration No. 46,866

02/13/2002 DBYRNE 00000087 09947201
 01 FC:581 40.00 OP

08/08/2002 TDIAZ1 00000015 09947210
 01 FC:581 40.00 OP

Attorney Docket No. NSC1P205/P04989

(Revised 01/96)

ASSIGNMENT OF PATENT APPLICATION

Whereas I an undersigned inventor have invented certain new and useful improvements as set forth in the patent application entitled:

TECHNIQUES FOR JOINING AN OPTOELECTRONIC MODULE TO A SEMICONDUCTOR PACKAGE

(Atty. Docket No. NSC1P205/P04989), (check one)

- for which I have executed a U.S. patent application on even date herewith. (Accompanying)
 which bears U.S. application No. 09/947,210. (Not accompanying)
 which is a U.S. provisional application. (Accompanying)

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I an undersigned inventor hereby:

- 1) Sell, assign and transfer to National Semiconductor Corporation, a Delaware corporation having a place of business at 2900 Semiconductor Drive, Santa Clara, CA 95051 ("ASSIGNEE"), the entire right, title and interest in any and all improvements and inventions disclosed in, applications based upon, and patents (including foreign patents and the right to claim priority) granted upon, the above-referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division, continuation, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.
- 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
- 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representative, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that I have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.
- 6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.

Signed on the date indicated beside my signature.

1. Inventor Signature: Luu Thanh Nguyen
Luu Thanh Nguyen

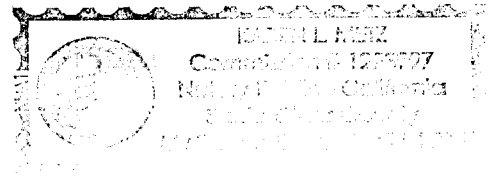
Date: 12/11/01

State of California)
County of Santa Clara) ss.

On this 11th day of December, in the year 2001, before me, Karen L. Metz, Notary Public, personally appeared Luu Thanh Nguyen, 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 executed the same in ~~his~~her authorized capacity(ies), and that by ~~his~~her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Signature Karen L Metz



2. Inventor Signature: Ken Pham
Ken Pham

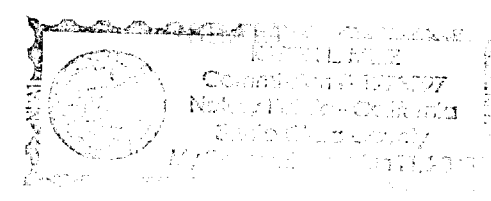
Date: 12/11/01

State of California)
County of Santa Clara) ss.

On this 11th day of December, in the year 2001, before me, Karen L. Metz, Notary Public personally appeared Ken Pham, 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 executed the same in ~~his~~her authorized capacity(ies), and that by ~~his~~her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Signature Karen L Metz



3. Inventor Signature: Peter Deane
Peter Deane

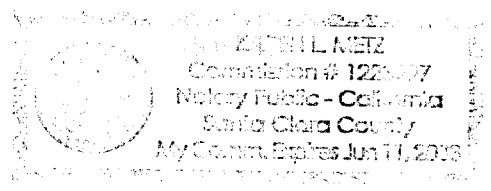
Date: 01-07-02

State of California)
County of Santa Clara) ss.

On this 7th day of January, in the year 2002, before me, Karen L. Metz, Notary Public, personally appeared Peter Deane, 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 executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Signature Karen L. Metz



4. Inventor Signature: William Paul Mazotti
William Paul Mazotti

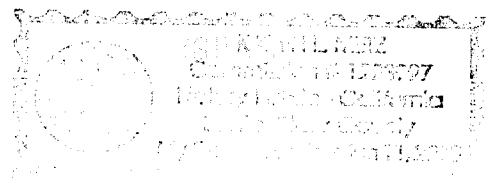
Date: 12-11-01

State of California)
County of Santa Clara) ss.

On this 11th day of December, in the year 2001, before me, Karen L. Metz, Notary Public, personally appeared William Paul Mazotti, 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 executed the same in his/her authorized capacity(ies), and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Signature Karen L. Metz



5. Inventor Signature: *Bruce Carlton Roberts*
Bruce Carlton Roberts

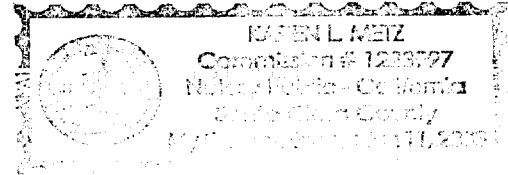
Date: 12-11-01

State of California)
County of Santa Clara) ss.

On this 11th day of December, in the year 2001, before me, Karen L. Metz, Notary Public, personally appeared Bruce Carlton Roberts, 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 executed the same in his authorized capacity(ies), and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Signature *Karen L. Metz*



6. Inventor Signature: *Jia Liu*
Jia Liu

Date: 12/11/01

State of California)
County of Santa Clara) ss.

On this 11th day of December, in the year 2001, before me, Karen L. Metz, Notary Public, personally appeared Jia Liu, 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 executed the same in his authorized capacity(ies), and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Notary Signature *Karen L. Metz*

