

1-25-07



ET

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To the Director of the U.S. Patent and Trademark Office, at the address(es) below, for the following documents or the new address(es) below.

1. Name of conveying party(ies)

Tse E. Wong, Samuel D. Tonomura,
Stephen E. Sox, Timothy E. Dearden,
Clifton Quan, Polwin C. Chan,
Mark S. Hauhe

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

3. Nature of conveyance/Execution Date(s):

Execution Date(s) Jan. 3, 2007; Jan. 8, 2007; Jan. 12, 2007

- Assignment Merger
- Security Agreement Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

2. Name and address of receiving party(ies)

Name: Raytheon Company

Internal Address: _____

Office of the General Counsel

Street Address: _____

870 Winter Street

City: Waltham

State: MA

Country: US Zip: 02451

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

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Raytheon Company

Internal Address: EO/E04/N119

Intellectual Property & Licensing

Street Address: 2000 East El Segundo Boulevard

PO Box 902

City: El Segundo

State: CA Zip: 90245-0902

Phone Number: 310-647-2577

Fax Number: 310-647-2616

Email Address: _____

6. Total number of applications and patents involved: one (1)

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 50-0616

Authorized User Name Leonard A. Alkov

9. Signature:

Leonard A. Alkov
Signature

January 25, 2007
Date

Leonard A. Alkov

Name of Person Signing

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

9

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

113014 U.S. PTO
11/698602



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01/31/2007

01 FC:8021

ASSIGNMENT

WHEREAS, I, as below named sole inventor (if only one name is listed below) or joint inventor (if plural names are listed below) of the city and state as stated below next to my name, have invented a (an)

STACKED INTEGRATED CIRCUIT ASSEMBLY

for which application for Letters Patent of the United States has been executed by me, or (*if the following is completed*) was filed as Application No. _____ on _____, and

WHEREAS, RAYTHEON COMPANY (hereinafter referred to as RAYTHEON), a Delaware corporation, having its principal place of business in Waltham, Massachusetts, is desirous of acquiring the entire and exclusive right, title and interest in, to and under said invention, said application and any and all Letters Patent that may be granted therefore in the United States and throughout the world;

NOW, THEREFORE, in consideration of the obligations voluntarily assumed by me and set forth in an invention agreement between me and my employer, effective the date as stated below next to my name, and other good and valuable consideration, receipt of which is hereby acknowledged, I do hereby sell, assign and transfer to RAYTHEON, its successors, assigns or other legal representatives, the entire and exclusive right, title and interest in and to said invention invented by me, to said application and any and all applications which are continuations, continuations-in-part, divisions or substitutes of said application and any and all Letters Patent that may be granted therefore in the United States and throughout the world on any of said applications and to any and all reexaminations, reissues, renewals or extensions of said Letters Patent in the United States and throughout the world for the full term or terms for which said Letters patent may be granted in the United States and throughout the world; authorize and request the Director of the United States Patent and Trademark Office and all foreign countries to issue all such Letters Patent to said RAYTHEON, its successors, assigns or other legal representatives; covenant that no assignment, sale, agreement, transfer or encumbrance has been, or will be, made or entered into which would conflict with this assignment, sale and transfer; and agree to communicate to RAYTHEON, its successors, assigns or other legal representatives, upon request and at no cost or expense to me, any facts known by me respecting said invention, do all lawful acts, including the execution and delivery of all papers and proper oaths and giving of testimony that is deemed necessary or desirable by RAYTHEON, its successors, assigns or other legal representatives with regard to said invention for protecting, obtaining, maintaining and enforcing any and all of said Letters Patent in the United States and throughout the world for said invention and for perfecting, affirming, recording and maintaining the title of RAYTHEON, its successors, assigns or other legal representatives, and generally cooperate to the fullest extent in all matters pertaining to said invention, and any and all of said Letters Patent and the title thereto in RAYTHEON, its successors, assigns or other legal representatives.

Title: *STACKED INTEGRATED CIRCUIT ASSEMBLY*

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Attorney Docket No. **05W223**

IN WITNESS WHEREOF, I have executed this instrument.

| | | |
|--|---|--|
| FULL NAME OF SOLE OR JOINT INVENTOR Samuel D. Tonomura | INVENTOR'S SIGNATURE <i>S. D. Tonomura</i> | DATE SIGNED <i>1/3/2007</i> |
| RESIDENCE (CITY AND STATE) Rancho Palos Verdes, California 90275-3931 | | INVENTION AGREEMENT DATE February 2, 1987 |

STATE OF CALIFORNIA)
)
 COUNTY OF LOS ANGELES)

SS:

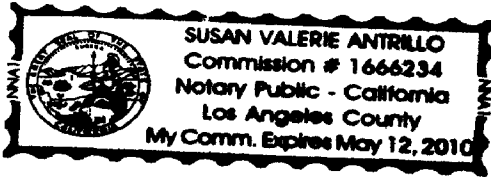
On January 3, 2007, before me, Susan Valerie Antrillo, a Notary Public in and for said State, personally appeared Samuel D. Tonomura

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, and that by his signature on the instrument the person, executed the instrument.

WITNESS my hand and official seal.

Notary Public *Susan Valerie Antrillo*
 Susan Valerie Antrillo

[seal]



Title: *STACKED INTEGRATED CIRCUIT ASSEMBLY*

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Attorney Docket No. **05W223**

IN WITNESS WHEREOF, I have executed this instrument.

| | | |
|--|---|--|
| FULL NAME OF SOLE OR JOINT INVENTOR Stephen E. Sox | INVENTOR'S SIGNATURE <i>Stephen E. Sox</i> | DATE SIGNED <i>1/12/2007</i> |
| RESIDENCE (CITY AND STATE) La Canada, California 91011-2727 | | INVENTION AGREEMENT DATE October 31, 1988 |

STATE OF CALIFORNIA)
 COUNTY OF LOS ANGELES)

SS:

On January 12, 2007, before me, Susan Valerie Antrillo, a Notary Public in and for said State, personally appeared Stephen E. Sox

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, and that by his signature on the instrument the person, executed the instrument.

WITNESS my hand and official seal.

Notary Public *Susan Valerie Antrillo*
Susan Valerie Antrillo




Title: *STACKED INTEGRATED CIRCUIT ASSEMBLY*

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Attorney Docket No. **05W223**

IN WITNESS WHEREOF, I have executed this instrument.

| | | |
|--|---|---|
| FULL NAME OF SOLE OR JOINT INVENTOR Timothy E. Dearden | INVENTOR'S SIGNATURE  | DATE SIGNED <i>1/3/2007</i> |
| RESIDENCE (CITY AND STATE) Torrance, California 90505-6202 | | INVENTION AGREEMENT DATE July 19, 1982 |

STATE OF CALIFORNIA)
)
 COUNTY OF LOS ANGELES)

SS:

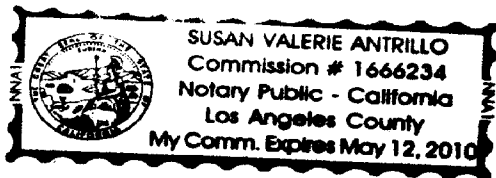
On January 3, 2007, before me, Susan Valerie Antrillo, a Notary Public in and for said State, personally appeared Timothy E. Dearden

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, and that by his signature on the instrument the person, executed the instrument.

WITNESS my hand and official seal.

Notary Public 
 Susan Valerie Antrillo

[seal]



Title: *STACKED INTEGRATED CIRCUIT ASSEMBLY*

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Attorney Docket No. **05W223**

IN WITNESS WHEREOF, I have executed this instrument.

| | | |
|--|---|---|
| FULL NAME OF SOLE OR JOINT INVENTOR Clifton Quan | INVENTOR'S SIGNATURE  | DATE SIGNED <i>1-8-07</i> |
| RESIDENCE (CITY AND STATE) Arcadia, California 91006-5615 | | INVENTION AGREEMENT DATE June 19, 1978 |

STATE OF CALIFORNIA)
 COUNTY OF LOS ANGELES) SS:

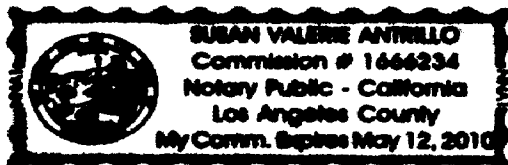
On January 8, 2007, before me, Susan Valerie Antrillo, a Notary Public in and for said State, personally appeared Clifton Quan

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, and that by his signature on the instrument the person, executed the instrument.

WITNESS my hand and official seal.

Notary Public 
 Susan Valerie Antrillo

[seal]



Title: *STACKED INTEGRATED CIRCUIT ASSEMBLY*

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Attorney Docket No. **05W223**

IN WITNESS WHEREOF, I have executed this instrument.

| | | |
|--|--|---|
| FULL NAME OF SOLE OR JOINT INVENTOR Polwin C. Chan | INVENTOR'S SIGNATURE <i>Polwin Chan</i> | DATE SIGNED <i>1/8/2007</i> |
| RESIDENCE (CITY AND STATE) Monterey Park, California 91755-2923 | | INVENTION AGREEMENT DATE February 27, 1995 |

STATE OF CALIFORNIA)
 COUNTY OF LOS ANGELES) SS:

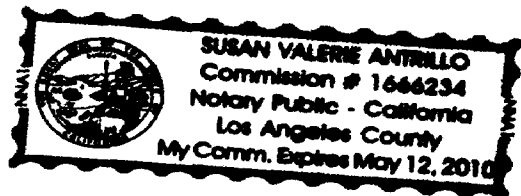
On January 8, 2007, before me, Susan Valerie Antrillo, a Notary Public in and for said State, personally appeared Polwin C. Chan

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, and that by his signature on the instrument the person, executed the instrument.

WITNESS my hand and official seal.

Notary Public *Susan Valerie Antrillo*
 Susan Valerie Antrillo

[seal]



Title: *STACKED INTEGRATED CIRCUIT ASSEMBLY*

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Attorney Docket No. **05W223**

IN WITNESS WHEREOF, I have executed this instrument.

| | | |
|---|--|---|
| FULL NAME OF SOLE OR JOINT INVENTOR Mark S. Hauhe | INVENTOR'S SIGNATURE <i>Mark S. Hauhe</i> | DATE SIGNED <i>03 Jan 2007</i> |
| RESIDENCE (CITY AND STATE) Hermosa Beach, California 90254 | | INVENTION AGREEMENT DATE June 17, 1981 |

STATE OF CALIFORNIA)
 COUNTY OF LOS ANGELES)

SS:

On January 3, 2007, before me, Susan Valerie Antrillo, a Notary Public in and for said State, personally appeared Mark S. Hauhe

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, and that by his signature on the instrument the person, executed the instrument.

WITNESS my hand and official seal.

Notary Public *Susan Valerie Antrillo*
 Susan Valerie Antrillo

[seal]

