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U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

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

## 1. Name of conveying party(ies):

DR. FREDERICK G. JOHNSON  
D-28-02Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: 4-27-2000

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

Name: NATIONAL SECURITY AGENCY

Internal Address: AGC(IP&amp;T)

Street Address: 9800 SAVAGE ROAD

STE 6542

City: FT MEADE State: MD Zip: 20755-6542

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

## 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: \_\_\_\_\_

## A. Patent Application No.(s)

09/563,457

09/564,371

## B. Patent No.(s)

6,407,407

Additional numbers attached? ☐ Yes ☒ No

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

Name: ATTN: AGC(IP&amp;T)

Internal Address: NATIONAL SECURITY  
AGENCY

Street Address: 9800 SAVAGE ROAD STE 6542

City: FT MEADE State: MD Zip: 20755-6542

## 6. Total number of applications and patents involved: 3

7. Total fee (37 CFR 3.41).....\$ 120.00

- ☐ Enclosed  
☒ Authorized to be charged to deposit account

## 8. Deposit account number:

14-0381

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

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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.

ROBERT D. MORELL

Name of Person Signing

Robert D. Morell

Signature

10-21-2002

Date

Total number of pages including cover sheet, attachments, and documents: 1

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

10/31/2002 LMUELLER 00000099 140381 09563457

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PATENT  
REEL: 013429 FRAME: 0552

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**ASSIGNMENT**

(Government Employee)

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**TITLE:**

RIDGE LASER WITH OXIDIZED STRAIN-COMPENSATED SUPERLATTICE OF GROUP  
INVENTOR: III-V SEMICONDUCTOR

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DR. FREDERICK G. JOHNSON

---

I, the undersigned inventor, in consideration of the rights of the Government of the United States acquired by virtue of the circumstances under which the above-identified invention was made, hereby:

1. Assign to the Government of the United States, as represented by the Director, National Security Agency, the entire right, title, and interest throughout the world in and to the above-identified invention and application for patent and all Letters Patent issuing thereon, and any continuation, continuation-in-part or division of said application and any reissue or extension of said Letters Patent.

2. Agree to provide any further information within my knowledge and to execute any further documents necessary to the prosecution of patent applications on the invention, the prosecution and settlement of the interferences and recording of title to patent applications and patents.

INVENTOR: FREDERICK GARR JOHNSON

ADDRESS: (City) LANDHAM (County) PRINCE GEORGE'S  
(State) MD

DATE: April 27 2000

SIGNATURE: Frederick G Johnson

State of MD )  
County of ~~Prince George~~ )  
Howard

On 27 April 2000 (date), known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that he or she executed the same as their own free act and deed.

Marilyn M. Cole  
(Signature)

(SEAL)

Notary Public of \_\_\_\_\_

My Commission Expires on 3 May 2003

Marilyn M. Cole, Notary Public  
Howard County  
State of Maryland  
My Commission Expires May 3, 2003

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**ASSIGNMENT**

(Government Employee)

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**TITLE: VERTICAL CAVITY SURFACE EMITTING LASER WITH OXIDIZED  
STRAIN-COMPENSATED SUPERLATTICE OF GROUP III-V SEMICONDUCTOR**

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**INVENTOR:**

**DR. FREDERICK G. JOHNSON**

---

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2. Agree to provide any further information within my knowledge and to execute any further documents necessary to the prosecution of patent applications on the invention, the prosecution and settlement of the interferences and recording of title to patent applications and patents.

INVENTOR: FREDERICK GORE JOHNSON

ADDRESS: (City) LANHAM (County) PRINCE GEORGES  
(State) MD

DATE: April 27 2000

SIGNATURE: Frederick G. Johnson

State of MD )  
County of Howard )

On 27 April 2000 (date), known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that he or she executed the same as their own free act and deed.

Marilyn M. Cole  
(Signature)

(SEAL)

Notary Public of \_\_\_\_\_

My Commission Expires on May 3, 2003

Marilyn M. Cole, Notary Public  
Howard County  
State of Maryland  
My Commission Expires May 3, 2003

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**ASSIGNMENT**

(Government Employee)

---

**TITLE:**

METHOD OF OXIDIZING STRAIN-COMPENSATED SUPERLATTICE OF GROUP III-V SEMICONDUCTOR

**INVENTOR:**

DR. FREDERICK G. JOHNSON

---

I, the undersigned inventor, in consideration of the rights of the Government of the United States acquired by virtue of the circumstances under which the above-identified invention was made, hereby:

1. Assign to the Government of the United States, as represented by the Director, National Security Agency, the entire right, title, and interest throughout the world in and to the above-identified invention and application for patent and all Letters Patent issuing thereon, and any continuation, continuation-in-part or division of said application and any reissue or extension of said Letters Patent.

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INVENTOR: FREDERICK GEAR JOHNSON

ADDRESS: (City) LANHAM (County) PRINCE GEORGES  
(State) MD

DATE: April 27 2000

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 )  
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Marilyn M. Cole  
(Signature)

(SEAL) Notary Public of \_\_\_\_\_

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Marilyn M. Cole, Notary Public  
Howard County  
State of Maryland  
My Commission Expires May 3, 2003