

05-31-2005

Form PTO-1595 (Rev. 03/05)  
OMB No. 0651-0027 (exp. 6/30/2005)U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

<div style="display: flex; justify-content: space-between;"> <span style="font-size: 1.5em;">5/23/05</span> <span>REC-103012096</span> </div>	
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.	
<b>1. Name of conveying party(ies)</b> Andrew Ongstad, Ron Kaspi, Gerg Dente, Michael Tilton, and Joseph R. Chavez  Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>2. Name and address of receiving party(ies)</b> Name: <u>The Government of the United States as represented by</u> <u>The Secretary of the Air Force</u> Internal Address: _____ SAF/GCQ _____ Street Address: <u>1500 Wilson Blvd. Suite 304</u> _____ City: <u>Arlington</u> State: <u>NM</u> Country: <u>USA</u> Zip: <u>22209</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>3. Nature of conveyance/Execution Date(s):</b> Execution Date(s) <u>23 May 2005</u> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____	<b>4. Application or patent number(s):</b> <input checked="" type="checkbox"/> This document is being filed together with a new application. A. Patent Application No.(s) _____ B. Patent No.(s) _____  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>5. Name and address to whom correspondence concerning document should be mailed:</b> Name: <u>Kenneth E. Callahan</u> Internal Address: <u>377 ABW/JAN</u> _____ Street Address: <u>2251 Maxwell Avenue SE</u> _____ City: <u>Kirtland AFB</u> State: <u>New Mexico</u> Zip: <u>87117</u> Phone Number: <u>505 846-1542</u> Fax Number: <u>505 846-0290</u> Email Address: <u>kenneth.callahan@kirtland.af.mil</u>	<b>6. Total number of applications and patents involved:</b> <u>1</u>  <b>7. Total fee (37 CFR 1.21(h) &amp; 3.41)</b> \$ <u>1000.00</u> <input type="checkbox"/> Authorized to be charged by credit card <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)
<b>9. Signature:</b> <u>Kenneth E. Callahan</u> <div style="text-align: center;">Signature</div> <div style="text-align: center;">Kenneth E. Callahan</div> <div style="text-align: center;">Name of Person Signing</div>	<b>8. Payment Information</b> a. Credit Card Last 4 Numbers _____ Expiration Date _____ b. Deposit Account Number <u>AF 01-0465</u> Authorized User Name <u>Kenneth E. Callahan</u>  Total number of pages including cover sheet, attachments, and documents: <span style="border: 1px solid black; padding: 2px 5px;">5</span>

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

05/27/2005 6TON11 00000068 010465 11135196

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(40.00 BA)

PATENT  
REEL: 016599 FRAME: 0442

## ASSIGNMENT

WHEREAS, we, **Andrew Ongstad and Ron Kaspi**, while employed by the Government of the United States, and **Greg Dente, Michael Tilton, and Joseph R. Chavez**, while employed by Boeing Corporation, made an invention entitled **Mid-IR Optically Pumped Semiconductor Laser**, and described in application for Letters Patent of the United States executed by us on the 23 day of May, 2005, on the 23 day of May, 2005, on the 23 day of May, 2005, on the 23 day of May, 2005, and on the 23 day of May, 2005.

WHEREAS, the conditions under which said invention was made are such as to entitle the Government under paragraph 1(a) of Executive Order 10096, to the entire right, title and interest therein, including foreign rights; and

WHEREAS, as to foreign rights, it is the policy of the Government to obtain an option to exercise such rights;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the promises and other valuable considerations, we, **Andrew Ongstad Ron Kaspi, Greg Dente, Michael Tilton, and Joseph R. Chavez**, the inventors, have sold, assigned and transferred and by these presents do sell, assign and transfer unto the Government of the United States of America as represented by the Secretary of the Air Force, our entire right, title and interest throughout the world, in and to the aforesaid invention described in the aforesaid application for Letters Patent of the United States, and all Letters Patent issuing thereon and any continuations, divisions and reissues or extensions thereof; we hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the Government of the United States of America, as represented by the Secretary of the Air Force, and his/her successors, as assignee of our entire right, title and interest in and to the same throughout the United States of America, its territories and dependencies, for the sole use for the full term or terms for which said Letters Patent and any continuations, divisions and reissues or extensions thereof are, or may be granted as fully and entirely as the same would have been held by us had this assignment not been made; and we do hereby also grant unto the Government of the United States as represented by the Secretary of the Air Force, our right, title, and interest in said invention or all applications for Letters Patent thereon in all countries foreign to the United States in which the Government of the United States may file, or cause to be filed, applications for Letters Patent, without payment to us of any further consideration; provided, however, that this grant to take foreign rights in our invention, or application for Letters Patent thereon, shall have force and effect only as to such applications filed in foreign countries, and that all foreign rights not exercised under this grant are left to us subject to a nonexclusive, irrevocable, royalty-free license to the Government of the United States in any patent which may issue on said invention in any foreign country, including the power to issue sublicenses for use in behalf of the Government of the United States and/or in furtherance of the foreign policies of the Government of the United States; and we hereby agree to execute any and all applications for Letters Patent, and to furnish all data and documents and to execute any papers which may be necessary for the preparation and filing of such applications, or for the Government to exercise its option granted hereunder, except that it shall be understood that we shall not be subject to any out-of-pocket expense relative to such action.

Inventor

  
 Andrew Ongstad

STATE OF: New Mexico


SS:

COUNTY OF Bernalillo

Before me, a Notary Public in and for the county of Bernalillo and state of New Mexico, on this 23<sup>rd</sup> day of May, 2005, personally appeared Andrew Ongstad to me known personally, who being duly sworn did say that he is one of the inventors who signed the above instrument and acknowledges said instrument to be his free act and deed.

(Seal)

My Commission Expires:  
31 May 2005

  
 Notary Public

Inventor

  
 Ron Kaspi

STATE OF: New Mexico

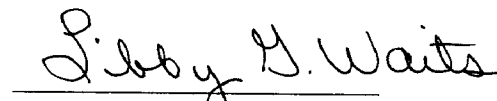
SS:

COUNTY OF Bernalillo

Before me, a Notary Public in and for the county of Bernalillo and state of New Mexico, on this 23<sup>rd</sup> day of May, 2005, personally appeared Ron Kaspi to me known personally, who being duly sworn did say that he is one of the inventors who signed the above instrument and acknowledges said instrument to be his free act and deed.

(Seal)

My Commission Expires:  
31 May 2005

  
 Notary Public

Inventor


  
 Greg Dente

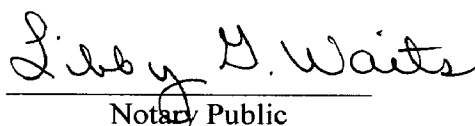
STATE OF: New Mexico

SS:

COUNTY OF Bernalillo

Before me, a Notary Public in and for the county of Bernalillo and state of New Mexico, on this 23<sup>rd</sup> day of May, 2005, personally appeared Greg Dente to me known personally, who being duly sworn did say that he is one of the inventors who signed the above instrument and acknowledges said instrument to be his free act and deed.

(Seal)


  
 Notary Public

My Commission Expires:  
31 May 2005

Inventor


  
 Michael Tilton

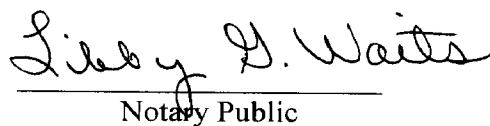
STATE OF: New Mexico

SS:

COUNTY OF Bernalillo

Before me, a Notary Public in and for the county of Bernalillo and state of New Mexico, on this 23<sup>rd</sup> day of May, 2005, personally appeared Michael Tilton to me known personally, who being duly sworn did say that he is one of the inventors who signed the above instrument and acknowledges said instrument to be his free act and deed.

(Seal)


  
 Notary Public

My Commission Expires:  
31 May 2005

Inventor

  
Joseph R. Chavez

STATE OF: New Mexico

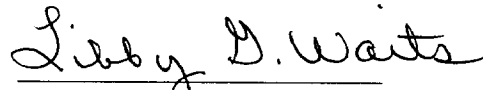
ss:

• COUNTY OF Bernalillo

Before me, a Notary Public in and for the county of Bernalillo and state of New Mexico, on this  
• 23<sup>rd</sup> day of May, 2005, personally appeared Joseph R. Chavez to me known personally, who  
being duly sworn did say that he is one of the inventors who signed the above instrument and  
acknowledges said instrument to be his free act and deed.

(Seal)

My Commission Expires:  
31 May 2005

  
Notary Public