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03-26-2003

Substitute PTO-95  
(Rev. 10/02)

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



102400453

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

<p>1. Name of conveying party(ies)</p> <p style="text-align: right; font-size: 2em;">3-18-03</p> <p>John J. Schamus William S. McCormick James B.Y. Tsui John M. Emmert</p>	<p>2. Name and address of receiving party(ies)</p> <p>Name: <u>The United States of America as represented by the Secretary of the Air Force</u></p> <p>Internal Address: <u>AFMCLO/JAZ</u> <u>Bldg 11, Room 100</u></p> <p>Street Address: <u>2240 B Street</u></p> <p>City: <u>Wright-Patterson AFB</u> State: <u>OH</u> Zip: <u>45433</u></p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____</p> <p>Execution Date: <u>January 24, 2003</u></p>	

<p>4. Application number(s) or patent number(s):</p> <p>If this document is being filed together with a new application, the execution date of the application is: _____</p> <p>A. Patent Application No.(s)</p> <p style="text-align: center;"><u>10/354,267</u></p> <p style="text-align: right;">Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>B. Patent No.(s)</p>
<p>5. Name and address of party to whom correspondence should be addressed:</p> <p>Name: <u>Thomas L. Kundert</u></p> <p>Internal Address: <u>AFMCLO/JAZ</u> <u>Bldg 11, Room 100</u></p> <p>Street Address: <u>2240 B Street</u></p> <p>City: <u>Wright-Patterson AFB</u> State: <u>OH</u> Zip: <u>45433</u></p>	<p>6. Total number of applications and patents involved: <span style="border: 1px solid black; padding: 2px;">1</span></p> <p>7. Total fee (37 CFR 3.41) .....\$ <u>40.00</u></p> <p><input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number:</p> <p style="text-align: center;"><u>AF 01-0465</u></p> <p>(Attach duplicate copy of this page if paying by deposit account)</p>

DO NOT USE THIS SPACE

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.*

THOMAS L. KUNDERT  
Name of Person Signing

Thomas L. Kundert  
Signature

3/12/03  
Date

Total number of pages including cover sheet, attachments, and documents: 6

03/26/2003 TBIAZ1 00000037 010465 10354267  
01 FC:0021 40.00 CH

**ASSIGNMENT**

Application Title: QUADBIT KERNEL FUNCTION ALGORITHM AND RECEIVER

Inventor(s): John J. Schamus, William S. McCormick

Date Inventor(s) Executed Declaration: January 24, 2003

Contractor: Veridian Engineering, Inc.

Contract Number: F33615-99-D-1447

Contractor's Invention No.: \_\_\_\_\_

Air Force Invention No.: AFD 579

The undersigned Inventor(s) in recognition of their obligation as employee(s) of the Contractor to assign inventions to the Contractor, and pursuant to the obligations of the Contractor to the Government of the United States under the above contract, hereby assign to the United States of America, as represented by the Secretary of the Air Force, their entire right, title, and interest throughout the world in and to each invention disclosed and claimed in the above U.S. patent application, made jointly with James B.Y. Tsui, an employee of the United States Government, and any substitution, division, continuation-in-part, or continuation of such patent application, subject to the reservation to the Contractor of any license to which the Contractor may be entitled under the above contract.

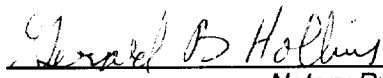
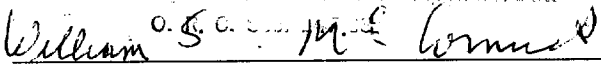
The Inventor(s) agree to assist the Contractor and the Government, upon request, by furnishing any available information and documents, performing all acts, and doing all things which may be reasonably necessary to prepare, file and prosecute such applications and make this assignment effective.

The Contractor joins in and agrees to this assignment and, except for the reservation of any license under the above contract, relinquishes and assigns to the United States of America as represented by the Secretary of the Air Force their entire right, title, and interest throughout the world in and to such inventions, and further agrees to furnish to the Government, upon request, any available information and documents necessary for the preparation, filing, and prosecution of such applications, for patent.

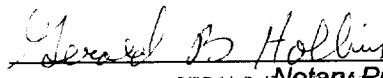
  
\_\_\_\_\_  
JOHN J. SCHAMUS

SIGNED and acknowledged before me this 24th day of January, 2003, at Wright Patterson Air Force Base  
County of Montgomery, and State of Ohio.

(seal)

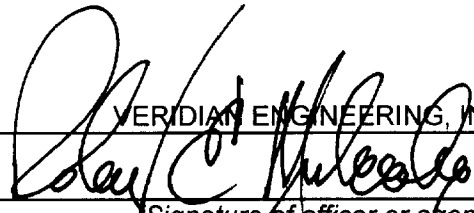
  
\_\_\_\_\_  
Gerald B. Hollins  
Notary Public  
In and for the State of Ohio  
My Comm. Expires \_\_\_\_\_  
  
\_\_\_\_\_  
WILLIAM S. MCCORMICK

SIGNED and acknowledged before me this 24th day of January, 2003, at Wright Patterson Air Force Base  
County of Montgomery, and State of Ohio.

  
\_\_\_\_\_  
Gerald B. Hollins  
Notary Public  
In and for the State of Ohio  
My Comm. Expires \_\_\_\_\_  
O. B. P. No. \_\_\_\_\_

FOR THE CONTRACTOR

Contractor: VERIDIAN ENGINEERING, INC.

By:   
(Signature of officer or agent)

Date: February 24, 2003

Printed Name: Robert E. Mulcahy

Title: Sr. Vice President

Business Address: 5200 Springfield Pike, Suite 200  
Dayton, OH 45431-1289

I, John Walter, certify that I am the Chief Financial Off. of the corporation named as Contractor herein; that Robert E. Mulcahy who signed this assignment on behalf of the Contractor was then Sr. Vice President of said corporation; that said assignment was duly signed for and on behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

  
(Signature of Secretary or certifying official)

**ASSIGNMENT**

WHEREAS I, James B.Y. Tsui, while employed by the Government of the United States, made jointly with John J. Schamus, William S. McCormick and John M. Emmert an invention entitled QUADBIT KERNEL FUNCTION ALGORITHM AND RECEIVER, described in an application for Letters Patent of the United States executed by me on the 24 day of January 2003;

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

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the premises and other valuable considerations, I, James B.Y. Tsui, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto the Government of the United States, as represented by the Secretary of the Air Force, my entire right, title and interest throughout the world in and to the aforesaid joint invention described in the aforesaid application for Letters Patent of the United States, and any and all applications for patent and patents in any and all countries foreign to the United States, and all Letters Patent issuing thereon and any continuations, continuations-in-part, divisions, and reissues or extensions thereof; and all priority resulting from the filing of the aforesaid application for patent in the United States; I hereby authorize and request any official whose duty it is to issue patents to issue any patent thereon to the United States of America, as represented by the Secretary of the Air Force, and his successors, as assignee of my entire right, title and interest in and to the same, for the sole use for the full term or terms for which said patents and any continuations, continuations-in-part, divisions and reissues or extensions thereof are, or may be, granted as fully and entirely as the same would have been held by me had this Assignment not been made; and I 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 or convenient for the preparation, filing, or prosecution of such applications, except it is understood that I shall not be subject to any out-of-pocket expense relative to such action.

James B.Y. Tsui  
JAMES B.Y. TSUI

SIGNED and acknowledged before me this 24 day of January, 2003, at Wright-Patterson AFB, County of Montgomery, and State of Ohio.

(Seal)

Gerald B. Holling  
Notary Public

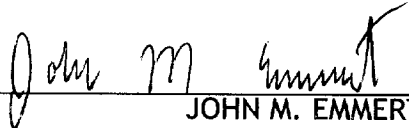
GERALD B. HOLLING, Attorney at Law  
In and for the State of Ohio  
My Commission Expires on 12/31/05  
O. R. C. Sec. 1701.05

**ASSIGNMENT**

WHEREAS I, John M. Emmert, while employed by the Government of the United States, made jointly with John J. Schamus, William S. McCormick and James B.Y. Tsui an invention entitled QUADBIT KERNEL FUNCTION ALGORITHM AND RECEIVER, described in an application for Letters Patent of the United States executed by me on the 27 day of January 2003;


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

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the premises and other valuable considerations, I, John M. Emmert, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto the Government of the United States, as represented by the Secretary of the Air Force, my entire right, title and interest throughout the world in and to the aforesaid joint invention described in the aforesaid application for Letters Patent of the United States, and any and all applications for patent and patents in any and all countries foreign to the United States, and all Letters Patent issuing thereon and any continuations, continuations-in-part, divisions, and reissues or extensions thereof; and all priority resulting from the filing of the aforesaid application for patent in the United States; I hereby authorize and request any official whose duty it is to issue patents to issue any patent thereon to the United States of America, as represented by the Secretary of the Air Force, and his successors, as assignee of my entire right, title and interest in and to the same, for the sole use for the full term or terms for which said patents and any continuations, continuations-in-part, divisions and reissues or extensions thereof are, or may be, granted as fully and entirely as the same would have been held by me had this Assignment not been made; and I 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 or convenient for the preparation, filing, or prosecution of such applications, except it is understood that I shall not be subject to any out-of-pocket expense relative to such action.

  
\_\_\_\_\_  
JOHN M. EMMERT

SIGNED and acknowledged before me this 27th day of January, 2003, at Wright-Patterson AFB, County of Montgomery, and State of Ohio.

(Seal)

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

CELESTINE B. HOLLEN, Notary Public  
10000 W. Main Street, Suite 100  
Cincinnati, Ohio 45241  
O. R. C. # 00000000