Form **PTO-1595** (Rev. 07/05) OMB No. 0651-0027 (exp. 6/30/2008) 07-20-2007



U.S. DEPARTMENT OF COMMERCE United States Patentiand Trademan Office

103428760 EET 2007 JUL 19 AM 11: 33 PATENTS ONLY To the Director of the U.S. Patent and Trademark Office: Please record the attached documents of the discussion of the U.S. Patent and Trademark Office: Please record the attached documents of the U.S. Patent and Trademark Office: Please record the attached documents of the U.S. Patent and Trademark Office: Please record the attached documents of the U.S. Patent and Trademark Office: Please record the attached documents of the U.S. Patent and Trademark Office: Please record the attached documents of the U.S. Patent and Trademark Office: Please record the attached documents of the U.S. Patent and Trademark Office: Please record the attached documents of the U.S. Patent and Trademark Office: Please record the attached documents of the U.S. Patent and Trademark Office: Please record the attached documents of the U.S. Patent and Trademark Office: Please record the U.S. Patent And Trademark Off 2. Name and address of receiving party(ies) 1. Name of conveying party(ies) L3 Communications - Titan Corporation Name: National Security Agency Internal Address: Attn: AGC(IP&T), Suite 6542 Additional name(s) of conveying party(ies) attached? Yes 🗹 No 3. Nature of conveyance/Execution Date(s): Street Address: 9800 Savage Road Execution Date(s) 20 September 2006 ✓ Assignment Merger City: Ft. George G. Meade Security Agreement Change of Name Joint Research Agreement State: MD Government Interest Assignment Zip:20755-6542 Country: USA Executive Order 9424, Confirmatory License Additional name(s) & address(es) attached? ☐ Yes ✔ No Other 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) 11/363,299 07/19/2001 DBYRNE 00000121 140381 11363299 01 FC:8021 40.00 DA Additional numbers attached? Yes ✓ No 5. Name and address to whom correspondence 6. Total number of applications and patents concerning document should be mailed: involved: One (1) Name: National Security Agency 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Internal Address: Attn: AGC(IP&T), Suite 6542 Authorized to be charged by credit card ✓ Authorized to be charged to deposit account Enclosed Street Address: 9800 Savage Road None required (government interest not affecting title) 8. Payment Information City: Ft. George G. Meade a. Credit Card Last 4 Numbers _ Zip:20755-6542 Expiration Date _ State: MD Phone Number: 301-688-0287 b. Deposit Account Number 14-0381 Fax Number: 301-688-0076 Authorized User Name Jennifer P. Ferragut Email Address: jpferra@nsa.gov 9. Signature: Signature Total number of pages including cover sheet, attachments, and documents: JENNIFER P. FERRAGUT Name of Person Signing

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

	METHOD .	0 F	BATABASE SEARCHING
DAVID WAITE			
11 363,299	02-17-1) 6	02-17-06
Lockheed Martin		"ПВА902-99-C-1003	

WHEREAS, under the terms of the above-identified contract with the United States Government the Contractor** agreed, inter alia, to grant to the Government certain rights under inventions and/or discoveries conceived or first actually reduced to practice in the performance of said contract; and

WHEREAS, the above-identified petent application discloses invention(s) within the purview of said rights agreed to be granted by the Contractor to the Government; and

WHEREAS, the Government desires that the assignment rights provided for by mid contract in and to said invention(s) be confirmed; and

WHEREAS, under the employment contract, agreement or arrangement the Contractor-employer is entitled to an assignment in and to certain inventions made by the inventor(s) as part of his (their) duties as employee(s) of the Contractor; and

WHEREAS, the above identified invention(s) was/were made in the performance of the above identified contract and under such circumstances as to entitle the Government to an assignment of the entire right, title and interest in and to said invention(s) and any and all applications for Letters Patent thereon and in and to any and all Letters Patent granted on said application, subject only to a non-undusive royalty-free license to Contractor, said license to be non-transferable except to the successor of that part of the Contractor's business to which said license is appurtanant; and

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WHEREAS Contractor warrants that it has the right to grant such assignments by virtue of an assignment executed to Contractor and recorded in the U.S. Patent and Trademark Office of follows:

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NOTE:	The Contractor	may delete this	i Wherest day If PART A.	EMPLOYEE

NOTE: The Contractor may detet that more court of the out and initiating in the morein, it PART A, EMPLOYEE ASSISTANCE of this form is executed. If an applyment to Contractor has been previously executed and recorded, Contractor should need to the Whereas clower and determ PART A.

PART A EMPLOYEE ASSIGNMENT

NOW, THEREFORE, be it known that for and in consideration of these premises and for other quot and sufficient consideration, the receipt of which is hereby acknowledged, I (we), the inventor(s), do sell, smign, and transfer to the Contractor-employer the entire right, title and interest in and to said invention(s) and patent application and in and to all Letters Patent wherever they may be granted thereon, as well as divisions, continuations, reissues, and extensions of said application and Letters Patent, the same to be held and enjoyed by the said Contractor-employer to the full end of the term Patent, the same to be held and enjoyed by the granted, as fully and entirely as the same would or terms for which Letters Patent are or may be granted, as fully and entirely as the same would have been held or enjoyed by me (us) had this assignment not been made.

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"Daya not shown at execution may be abord later for setter identification "The terms contract and contractor shall include subcontract and subcontractor, if applicable, wherever they occur

PATENT REEL: 019593 FRAME: 0997

PART B CONTRACTOR ASSIGNMENT

NOW, THEREFORE, in consideration of these premises and for other good and sufficient consideration, the receipt of which is hereby acknowledged, the Contractor does hereby assign, sell and transfer to the United States Government, as represented by the Director, National Security Agency and his successors in office, the entire right, title and interest, throughout the world in and to said invention(s) and patent application and in and to any and all Letters Patent granted thereon, as well as divisions, continuations, reissues, and extensions of said application and Letters Patent, the same to be held and enjoyed by the said Government of the United States, to the full end of the term or terms for which Letters Patent are or may be granted, as fully and entirely as the same would have been held or enjoyed by the Contractor had this assignment not been made, subject only to the license, as above recited, which license extends to Contractor and to existing and future associated and affiliated companies, if any, within the corporate structure of which Contractor is a part, and which Beense is hereby reserved.

Signed (for Contractor on	10HI 9/20/86
at a.	enfity)	(County) FAUL GERMAN Typed Memod
ŧ	certify that I am the Secretary of th	above-Identified Corporation; that the officer who signed this instrument
on behi	di of the Corporation was then	of the Corporation, setting
bu met	بالمارين فيمي بنامية مجامعينين ودا أبر وداسي	the stare of its strategies remove

(Date) 9/20/06

(Corporate Seal)

their and said Corporation's free act and deed.

RECORDED: 07/19/2007

On Sept Jo , 300 6 before me appeared affixed their names to the foregoing instrument in my presence, and acknowledged the same to be

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