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U.S. DEPARTMENT OF COMMERCE  
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To the Honorable Commissioner of Patents and Trademarks, please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
JAMES B. Y. TSUI **3-8-99**  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies)  
Name: United States Air Force  
Internal Address: AFMC LO/JAZ, Bldg 11  
Street Address: 2240 B Street, Room 100  
City: Wright-Patterson AFB  
State: Ohio ZIP: 45433-7109

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_  
Execution Date(s): November 19, 1998  
 This instrument should be recorded on the governmental register in accordance with 37 CFR 7.1(e)(1)

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)  
09/201,554

B. Patent No.(s)  
Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: Thomas L. Kundert  
Internal Address: AFMC LO/JAZ, Bldg 11  
Street Address: 2240 B Street, Room 100  
City: Wright-Patterson AFB  
State: Ohio ZIP: 45433-7109

6. Total number of applications and patents involved:  
**1**

7. Total fee (37 CFR 3.41) .....\$ 40.00  
 Enclosed  
 Authorized to be charged to deposit account

8. Deposit account number:  
AF 01-0465  
(Attach duplicate copy of this page if paying by deposit account)

03/11/1999 DNGUYEN 00000048 010465 09201554  
FC:581 40.00 CH

**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 *Thomas L. Kundert* 12/10/98  
Name of person signing Signature Date

Total number of pages including cover sheet, attachments, and document **3**

### ASSIGNMENT

WHEREAS, I, JAMES B.Y. TSUI, while employed by the Government of the United States, made an invention entitled PASSIVE RANGING USING GLOBAL POSITIONING SYSTEM, and described in application for Letters Patent of the United States executed by me on the 19th day of November, 1998;

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 premises and other valuable considerations, I, JAMES B.Y. TSUI, the inventor, 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, the entire right, title and interest throughout the United States of America, its territories and dependencies, 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 of extensions thereof; I hereby authorize and request the Commissioner of Patents to issue said Letters Patent to the Government of the United States of America, as represented by the Secretary of the Air Force, and any successors, as assignee of the entire right, title and interest in and to the same 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 me, JAMES B.Y. TSUI, had this assignment not been made; and I do hereby also grant unto the Government of the United States as represented by the Secretary of the Air Force, the option to take all the 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 the payment to me of any further consideration; provided, however, that this grant of an option to take foreign rights in my invention must be exercised by written notice to me within 8 months of the filing date of any application for United States Letters Patent covering my invention, or within eight months from the declassification of my invention, whichever is later, and that all foreign rights not exercised under the option are left to me 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 I, JAMES B.Y. TSUI, 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 or filing of such domestic applications, or for the Government to exercise its option granted hereunder, except that it shall be understood that I shall not be subject to any out-of-pocket expense relative to such action.

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

SUBSCRIBED AND ACKNOWLEDGED before me this 19 day of November, 1998, at Wright-Patterson Air Force Base, in the County of Greene and State of Ohio.

(Seal)

Gina S. Tollefson  
GINA S. TOLLEFSON, Attorney at Law  
Notary Public, State of Ohio  
My Commission has no expiration date.  
Section 147.03 O. R. C.