

Form PTO-1595 (Rev. 09/04)  
OMB No. 0651-0027 (exp. 6/30/2005)

Navy Case No. 84,298

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office**RECORDATION FORM COVER SHEET  
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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)/Execution Date(s):**Paisan Atsavapranee  
Jerry W. ShanExecution Date(s) Aug. 24 & Aug. 31, 2004Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance:**

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

**2. Name and address of receiving party(ies)**Name: Thomas McDonnellInternal Address: Chief of Naval ResearchOffice of CounselDept. of the NavyStreet Address: 800 North Quincy StreetCity: ArlingtonState: VirginiaCountry: USA Zip: 22217-5660Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**☐ This document is being filed together with a new application.

A. Patent Application No.(s)

10/932,647

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: John Forrest Code 39Internal Address: Office of CounselNaval Surface Warfare Center, Carderock DivisionStreet Address: 9500 MacArthur Blvd.City: West BethesdaState: Maryland Zip: 20817Phone Number: 301 227-1835Fax Number: 301 227-1968

Email Address: \_\_\_\_\_

**6. Total number of applications and patents involved:**1**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_b. Deposit Account Number 50-0958Authorized User Name John Forrest**9. Signature:**

Signature

Date

John Forrest, Reg. No. 29,378

Name of Person Signing

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

3Documents to be recorded (including cover sheet) should be faxed to (703) 308-5895, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

CH \$40.00 500958 10932647

Serial No. 10/932,647

Filed: Sept. 2, 2004

**ASSIGNMENT OF INVENTION**

WHEREAS I, **Paisan Atsavapranee** of Cabin John, Maryland, while employed by the Government of the United States of America, hereinafter referred to as the Government, along with Jerry W. Shan of Raritan, New Jersey, have made an invention entitled **Lithography for Optical Patterning of Fluids**, identified as Navy Case No. **84,298** and described in application for Letters Patent of the United States of America as executed by me on 8/24, 2004 and as to be subsequently executed by Jerry W. Shan; and PA

WHEREAS, the conditions under which the 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, the Government desires to obtain the entire right, title and interest in and to the invention disclosed in said application within the United States of America, its territories and possessions and other rights and benefits herein granted; and

WHEREAS, the Government desires an option to obtain the foreign rights in and to the invention;

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration the receipt of which is hereby acknowledged, I hereby assign and transfer to the United States of America as represented by the Secretary of the Navy the entire right, title, and interest in and to said invention within the United States of America, its territories and possessions, and the entire right, title, and interest in and to said application and any continuation, division or substitution thereof, and such Letters Patent as may issue therefrom and any reissue or extensions thereof, said invention, application and Letters Patent to be held by the United States of America as represented by the Secretary of the Navy to the end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this assignment not been made.

I do hereby also grant to the Government, the option to take the entire right, title, and interest in and to the invention and all patent applications, patents and other forms of protection thereon in countries foreign to the United States of America within eight months of the filing date of any application for United States Letters Patent covering the invention; such option to be exercised by a written notification to me (us) within such eight months identifying the specific foreign countries in which the Government will file or cause to be filed an application for patent or other form of protection on the invention; and that the rights in the foreign countries not exercised under the option are left to me (us) subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on the invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

I hereby further agree to make, execute, and deliver to the Government, any and all papers, documents, affidavits, statements or other instruments that may be necessary in the prosecution of the application and any continuation, division or substitution of the application, or any application for reissue or extension of said Letters Patent, and to assist the Government in every way in protecting the invention as may be requested, provided that any expense arising through such efforts will be paid by the Government.

IN TESTIMONY WHEREOF, I have set my hand and affixed my seal.

8/24/04  
Date

 Seal  
**Paisan Atsavapranee**

Serial No. 10/932,647  
Filed: Sept. 2, 2004**ASSIGNMENT**

1. The United States of America as represented by the Secretary of the Navy is hereinafter referred to as "the Government."
2. The American Society for Engineering Education, hereinafter referred to as "ASEE," describes itself as a nonprofit organization of individuals and institutions committed to furthering education in engineering and engineering technology. ASEE headquarters is located at 1818 "N" Street, N.W., Suite 600, Washington, DC 20036.
3. Jerry W. Shan of Raritan, New Jersey is hereinafter referred to as "joint inventor Shan."
4. Paisan Atsavapranee of Cabin John, Maryland is hereinafter referred to as "joint inventor Atsavapranee."
5. Joint inventor Shan, while having the status of subcontractor to ASEE, and joint inventor Atsavapranee, while employed by the Government, have made one or more inventions described in Application for Letters Patent of the United States of America (hereinafter referred to as "U.S. nonprovisional patent application") as executed by joint inventor Atsavapranee on August 24, 2004 and by joint inventor Shan on 8/31/2004, 2004, said U.S. nonprovisional patent application to be filed in the United States Patent and Trademark Office in due course. Said U.S. nonprovisional patent application is entitled "Lithography for Optical Patterning of Fluids," is identified as Navy Case Number 84,298, and claims the benefit of U.S. provisional patent application number 60,600,236.
6. Joint inventor Shan, as subcontractor to ASEE, is entitled to receive title to said one or more inventions described in said U.S. nonprovisional patent application.
7. Joint inventor Shan hereby assigns to the Government, subject to a revocable, nonexclusive, royalty-free license which is hereby reserved to joint inventor Shan, all right, title and interest in and to: (i) said U.S. nonprovisional patent application; (ii) each and every of said one or more inventions described in said U.S. nonprovisional patent application; and, (iii) any continuation, division or substitution of said U.S. nonprovisional patent application.
8. Said license is reserved to joint inventor Shan as an individual person and is transferable by joint inventor Shan only with the approval of the Government.
9. Joint inventor Shan further agrees to assist the Government, upon request, by furnishing any available information and documents, and by performing all acts and doing all things which may be reasonably necessary for the prosecution of said U.S. nonprovisional patent application, and of any continuation, division or substitution of said U.S. nonprovisional patent application.

date 8/31/2004

JERRY W. SHAN

