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OMB No. 0651-0027 (exp. 6/30/2005)
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1. Name of conveying party(ies):
 Jony Jiang Liu
 George J. Simonis

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
 Name: United States of America
 Internal Address: as Represented by the
Secretary of the Army
 Street Address: _____
 City: Washington State: DC Zip: _____
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 Execution Date: 09/03/2003

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) 10/655,634
 B. Patent No.(s) _____
 Additional numbers attached? Yes No

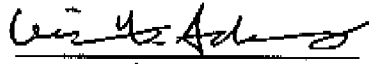
6. Total number of applications and patents involved: 1

5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: Office of Command Counsel
 Internal Address: U.S. Army Materiel Command
ATTN: AMCCC-B-IP
 Street Address: 9301 Chapek Road
 City: Fort Belvoir State: VA Zip: 22060-5527

7. Total fee (37 CFR 3.41).....\$ 40.00
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William V. Adams  12 December 2003
 Name of Person Signing Signature Date

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SUPPLEMENTAL SIGNATURE SHEET

For use of this form, see AR 27-60; the proponent agency is OTJAG

Use this form with DA Forms 2873-R and 2874-R when additional signature blocks are needed.

1. ASSIGNOR(s) OR LICENSOR(s) NAME(s)
Jony Jiang Liu;
George J. Simonis

2. APPLICATION SERIAL NUMBER
Atty doc # ARL 03-03

3. FILING DATE

4. TITLE OF INVENTION
OPTICAL TRANSMITTERS AND INTERCONNECTS USING SURFACE-EMITTING LASERS AND
MICRO-OPTICAL ELEMENTS

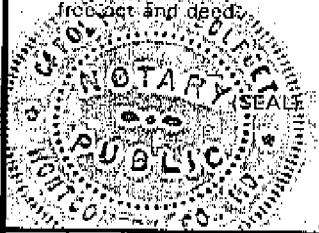
SIGNATURE OF INVENTOR: George J Simonis
(First name) (Middle initial) (Last name)

DUTY ADDRESS: US ARL AMSKL-SE-EM, Adelphi, Montgomery, MD 20783-1197

DATE SIGNED: 9/3/03 INVENTOR'S TYPED NAME: George J. Simonis

STATE OF Maryland)
COUNTY OF Montgomery) SS.

On the above date George J. Simonis known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that he executed the same as his own free act and deed.



Carolyn F. Sawyer
(Signature of notary public)

My Commission expires on December 1, 2003

SIGNATURE OF INVENTOR: _____
(First name) (Middle initial) (Last name)

DUTY ADDRESS: _____

DATE SIGNED: _____ INVENTOR'S TYPED NAME: _____

STATE OF _____)
COUNTY OF _____) SS.

On the above date _____ known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that he executed the same as his own free act and deed.

(SEAL)

(Signature of notary public)

My Commission expires on _____

ASSIGNMENT OF INVENTION

For use of this form, see AR 27-60; the proponent agency is OTJAG

Title of Invention: OPTICAL TRANSMITTERS AND INTERCONNECTS USING SURFACE-EMITTING

Inventor(s) Jony Jiang Liu; George J. Simonis

*Application Serial No.: _____ Attorney Docket # ARL 03-03

*Date Oath Executed: _____ *Filing Date: _____

(*Data not known at execution may be added for better identification.)

I (We), the undersigned inventor(s), in consideration of the rights of the Government of the United States acquired by virtue of the circumstances under which the above-entitled invention was made, hereby:

1. Assign to the Government of the United States, as represented by the Secretary of the Army, the entire right, title and interest throughout the United States, its Territories, Possessions, and Puerto Rico, in and to the above-entitled invention and application for patent and all Letters Patent issuing thereon, and any continuation, continuation-in-part or division of said application and any reissue or extension of said Letters Patent.

2. Agree to assign to the Government upon its request, title and interest in the invention in those foreign countries in which the Government, within eight months of the filing of the United States application for patent, determines to cause an application to be filed; provided that if the Government determines not to cause an application to be filed in any particular foreign country or fails to make such a determination, within the said eight months, all right, title and interest in the invention in such foreign country shall remain in me (us), subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent which may issue on the invention in such foreign country, including the power to issue sublicenses for use in behalf of the Government and/or furtherance of the foreign policies of the Government.

3. Agree to provide any further information within my (our) knowledge and to execute any further documents necessary to the prosecution of patent applications on the invention, the prosecution and settlement of interferences and recording of title to patent applications and patents issuing thereon.

Signature of Inventor: Jony J. Liu
(First name) (Middle Initial) (Last name)

Duty Address: U.S. ARL, AMSRL-SE-EM, Adelphi Montgomery Maryland 20783-1197
(Locality) (County) (State)

Date: Sept. 3, 2003 Typed Name of Inventor: Jony Jiang Liu

State of: Maryland)
County of: Montgomery) SS

On the above date Jony Jiang Liu known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that the same as his own free act and deed.

Carolyn L. Bouquet
(Signature of notary public)

My Commission expires on December 1, 2003

