

08-02-2000



101404545

**RECORDATION FORM COVER SHEET
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TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

New

Resubmission (Non-Recordation)
Document ID#

Correction of PTO Error
Reel # Frame #

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Conveyance Type

Assignment Security Agreement

License Change of Name

Merger Other

U.S. Government
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Departmental File Secret File

Conveying Party(ies)

Mark if additional names of conveying parties attached

Execution Date
Month Day Year
031298

Name (line 1)

Name (line 2)

Second Party

Name (line 1)

Name (line 2)

Execution Date
Month Day Year
032398

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Address (line 3)

City State/Country Zip Code

Domestic Representative Name and Address

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PATENT

REEL: 010842 FRAME: 0064

Respondent Name and Address Area Code and Telephone Number

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

Pages Enter the total number of pages of the attached conveyance document including any attachments. #

Application Number(s) or Patent Number(s) Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)			Patent Number(s)		
<input type="text" value="09031026"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor. Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT PCT PCT

PCT PCT PCT

Number of Properties Enter the total number of properties involved. #

Fee Amount Fee Amount for Properties Listed (37 CFR 3.41): \$

Method of Payment: Enclosed Deposit Account

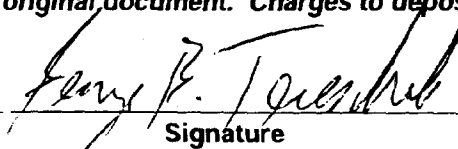
Deposit Account (Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number: #

Authorization to charge additional fees: Yes No

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. Charges to deposit account are authorized, as indicated herein.

George B. Tereschuk 

Name of Person Signing Signature Date

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Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)
City State/Country Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

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Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

PATENT

REEL: 010842 FRAME: 0066

Correspondent Name and Address **Area Code and Telephone Number**

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

Pages **Enter the total number of pages of the attached conveyance document including any attachments.** #

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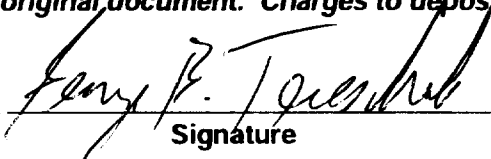
Deposit Account
(Enter for payment by deposit account or if additional fees can be charged to the account.)

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Authorization to charge additional fees: Yes No

Statement and Signature

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George B. Tereschuk 

Name of Person Signing **Signature** **Date**

ASSIGNMENT OF INVENTION

For use of this form, see AR 27-80; the proponent agency is OTJAG

Title of Invention: HIGH SPEED, SPATIALLY SWITCHING LIGHT EMITTERS AND AMPLIFIERS EMPLOYING CURRENT FLOW TO INDUCE A TRANSVERSELY FLOWING NARROW, LIGHT EMITTING CHANNEL CAPABLE OF SPATIAL SHIFTING

Inventor(s): PANKAJ B. SHAH, WALTER R. BUCHWALD, (VLADIMIR V. MITIN)

*Application Serial No.: 09/031,026 Attorney Docket No.: CECOM 5334

*Date Oath Executed: 3/12/98 *Filing Date: 26 February 1998

*(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 of America, 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 all right, 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 in 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: [Handwritten Signature]
(First name) (Middle Initial) (Last Name)

Duty Address: U.S. Army Research Laboratory, ATTN: AMSRL-SE-RL
2800 Powder Mill Road, Adelphi Maryland 20783-1196
(Localty) (County) (State)

Date: 3/12/98 Typed Name of Inventor: PANKAJ B. SHAH

State of Maryland)
County of Montgomery) ss.

On the above date PANKAJ B. SHAH 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/she executed the same as his/her own free act and deed.

[Handwritten Signature of Notary Public]
(Signature of Notary public)

{SEAL}

My Commission expires on 1 Nov 1999

SUPPLEMENTAL SIGNATURE SHEET

DOCKET NO.:

For use of this form, see AR 27-80; the proponent agency is OTJAG

CECOM 5334

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)

PANKAJ B. SHAH
WALTER R. BUCHWALD

2. APPLICATION SERIAL NUMBER

09/031,026

3. FILING DATE

26 February 1998

4. TITLE OF INVENTION HIGH SPEED, SPATIALLY SWITCHING LIGHT EMITTERS AND AMPLIFIERS EMPLOYING CURRENT FLOW TO INDUCE A TRANSVERSELY FLOWING NARROW, LIGHT EMITTING CHANNEL CAPABLE OF SPATIAL SHIFTING

SIGNATURE OF INVENTOR:

Walter R. Buchwald

(Print name) (Initials) (Last name)

U.S. Army Research Laboratory, SEDD

DUTY ADDRESS: Fort Monmouth, Monmouth County, New Jersey 07703-5010

DATE SIGNED:

3/23/98

INVENTOR'S TYPED NAME:

WALTER R. BUCHWALD

.....

STATE OF

MASSACHUSETTS

COUNTY OF

ESSEX

)
) SS.

On the above date WALTER R. BUCHWALD 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]

MY COMMISSION EXPIRES APRIL 5, 2002

My Commission expires on _____

SIGNATURE OF INVENTOR:

(Print name) (Initials) (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 _____