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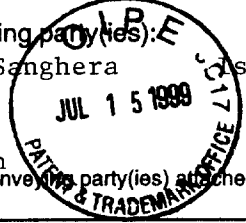


To the Honorable Commissioner of Patents and

101094074

original documents or copy thereof.

1. Name of conveying party(ies):
Jasbinder S. Sanghera
Brandon Shaw
Brian Cole
Barry Harbison
Additional name(s) of conveying party(ies) attached? Yes No



7-15-99

2. Name and address of receiving party(ies)
Name: The United States of America as
represented by the Secretary of the Navy.
Internal Address: CHIEF OF NAVAL RESEARCH

OFFICE OF COUNSEL

(ATTN: CODE OOCPIP)

Street Address: BALLSTON TOWER ONE

800 NORTH QUINCY STREET

City: ARLINGTON State: VA ZIP: 22217

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: September 26, 26, 1997

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)

08/920,877
NC# 78,395

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: ASSOCIATE COUNSEL (PATENTS)

Internal Address: NAVAL RESEARCH LABORATORY

(ATTN: CODE 3008.2)

Street Address: 4555 OVERLOOK AVENUE, S.W.

City: WASHINGTON, DC State: _____ ZIP: 20375

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41).....\$ 40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number: 04-0814

(Attach duplicate copy of this page if paying by deposit account)

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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 E. McDONNELL

Reg. No. 26950

Name of Person Signing

Thomas E. McDonnell
Signature

15 July 99
Date

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

ASSIGNMENT OF INVENTION

WHEREAS, I (we) Jasbinder Sanghera, Brandon Shaw, Brian Cole, Barry Harbison and Ishwar Aggarwal of Greenbelt, Md., Laurel, Md., Alexandria, Va., Dunkirk, Md., and Fairfax Station, Va., while employed by the Government of the United States of America, hereinafter referred to as the Government, have made an invention entitled "**AMPLIFICATION BY MEANS OF DYSPROSIUM DOPED LOW PHONON ENERGY GLASS WAVEGUIDES**" identified as Navy Case No. 78,395 and described in application for Letters Patent of the United States of America executed by me (us) on 4/28 1997; and

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 is desirous of obtaining 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, as to foreign rights, the Government desires an option to obtain such rights;

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration the receipt of which is hereby acknowledged, I (we) 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 (us) had this assignment not been made.

I (We) do hereby also grant unto 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 (We) 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 of 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 (we) have set my (our) hand(s) and affixed my (our) seal(s).

9/25/97

(date)

9/25/97

(date)

Sept 25, 1997

(date)

9/26/97

(date)

sept 25 1997

(date)

Jasbinder S. Sanghera Seal

Jasbinder S. Sanghera

Brandon Shaw Seal

Brandon Shaw

Brian Cole Seal

Brian Cole

Barry B. Harbison Seal

Barry Harbison

Ishwar Aggarwal Seal

Ishwar Aggarwal