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and original documents or copy

To the Honorable Commissioner of Patents
thereof:

1. Name of conveying party(ies):

DARRYL G. UPDEGROVE

Additional name(s) of conveying party(ies) attached
__yes/ X no

3. Nature of conveyance:

X Assignment ___ Merger ___ Security Agreement
___ Change of Name ___ Other

Execution Date: _____

2. Name & 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, Code OCCC**Street Address: **Ballston Tower One
800 N. Quincy Street**City: **Arlington** State: **VA** Zip: **22217-5660**Additional name(s) & address(es) attached? __yes/ X 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)

B. Patent No.(s)

Navy Case No.: **79,736**

Serial No. :

Additional numbers attached __yes/ X no

09-317-078

5. Name and address of party to whom correspondence concerning
document should be mailed:Name: **HARVEY A. GILBERT**
Internal Address: **OFFICE OF COUNSEL, CODE CP2L
COASTAL SYSTEMS STATION
DAHLGREN DIVISION**Street Address: **6703 W HWY 98**City: **PANAMA CITY** State: **FL** Zip: **32407-7001**6. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41) \$ 40.00___ Enclosed X Authorized to be charged to deposit account8. 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.

HARVEY A. GILBERT Reg. No. 27331

Name of Person Signing

Signature

Date

CERTIFICATE OF MAILING (37 CFR 1.8a)

I hereby certify that these papers, along with any paper referred to as being attached or enclosed, are being deposited with the United States Postal Service on the date shown below with sufficient postage in an envelope addressed to the: Assistant Commissioner for Patents, Washington, D.C. 20231.

By:

HARVEY A. GILBERT
Patent Counsel
Registration No. 27331

Date:

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

ASSIGNMENT

WHEREAS, I Daryl G. Updegrove of Panama City, Florida, while employed by the Government of the United States, have invented certain new and useful improvements in:

EMBEDDED FIBER OPTIC CIRCUIT BOARDS AND INTEGRATED CIRCUITS

identified as Navy Case No. 79,736 described in application for Letters Patent of the United States of America executed by us on May 14, 19 99; and

WHEREAS, the Government of the United States, represented by the Secretary of the Navy and hereinafter referred to as the Government, is desirous of acquiring an assignment of the invention disclosed in said application and other rights and benefits herein granted; 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

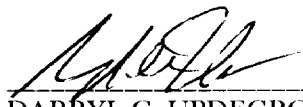
WHEREAS, as to foreign rights, it is the policy of the Government to obtain an option to exercise such rights;

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration the receipt of which is hereby acknowledged, we hereby assign and transfer to the Government 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 to be held by the Government 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 unto the Government, the option to take the entire right, title and interest in the invention and all patent applications or other forms of protection thereon in all countries foreign to the United States in which the Government may file, or cause to be filed, applications for Letter Patent or other forms of protection, without payment of any consideration. This option may be exercised at any time within eight months from the filing date of any application for the United States Letters Patent covering the invention, or within eight months from the declassification of the invention, whichever is later, by the Government obtaining an assignment for foreign filing executed by one or more of the inventors. However, if one or more or all inventors declines or is unable for any reason to execute an assignment for foreign filing upon written request by the Government to do so, the Government shall be deemed to have exercised its option and shall be free to file. In the event the Government does not exercise its option as above described, all foreign rights not exercised under the option are left to us subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on said invention in any foreign country, including the power to issue sublicenses for use on 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 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 have set my hands and affixed our seal.



DARRYL G. UPDEGROVE

Date 5/14/99