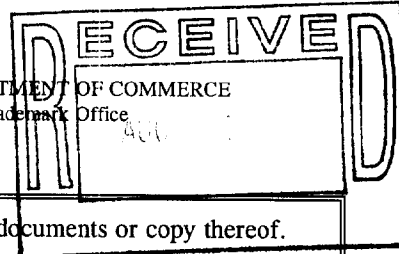


09-10-1998



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1. Name of conveying party(ies):

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3. Nature of Conveyance:

X Assignment _ Other

Execution Date: August 24, 1998

4. Application number(s) or patent number(s):

A. Patent Application No.: 08/611,045

Attorney Docket No.: 75755

B. Patent No.(s) 5,708,738

5. Name & Address of party to whom correspondence concerning document should be mailed:

RON BILLI

Name: **Office of Counsel, Bldg. 435, Suite A**

Internal Address: **Naval Air Warfare Center,
Aircraft Division**

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6. Total number of applications and patents involved: 1

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

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Ron Billi
Signature

8-27-98
Date

of 3649 Marian Drive, Boothwyn, PA

have made an invention entitled: "Apparatus and Process for Making Fiber Optic Bragg Gratings"

WHEREAS, the Government of the United States of America 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 of the United States of America desires 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 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 unto the Government of the United States of America 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 within such eight months identifying the specific foreign countries in which the Government of the United States of America 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 subject to a nonexclusive, irrevocable, royalty-free license to the Government of the United States of America 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 of the United States of America and/or in furtherance of the foreign policies of the Government of the United States of America.

I hereby further agree to make, execute, and deliver to the Government of the United States of America, 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 of the United States of America 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 of the United States of America

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

Aug 24, 1998
(date)


SOM D. TYAGI