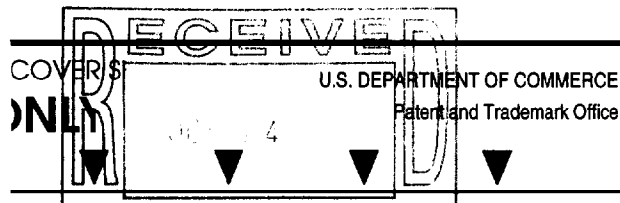


FORM PTO-1595
(REV. 6-93)
OMB No. 0651-0011 (exp. 4/94)

10-30-1998



100863491



To the Honorable Commissioner of Patents and Trademarks, please record the attached original documents or copy the

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Execution Date 10/07/98

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4. Application number(s) or patent
If this document is being filed together with a new application, the execution date of the
A. Patent Application No.(s)
08/870,985
Additional numbers attached Yes No

B. Patent No.(s)
 Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Kimberly Richmond
Internal Address:
Office of General Counsel
Street Address:
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City: Arlington State: VA ZIP: 22203

6. Total number of applications and patents Yes No 1

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Jewel L. Miller
Name of Person Signing

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Date

Total number of pages including cover sheet, attachments, and 4

Mail documents to be recorded with required cover sheet information to:
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PATENT
REEL: 9538 FRAME: 0773

LICENSE TO THE UNITED STATES GOVERNMENT

WHEREAS, Manijeh Razeghi, of NORTHWESTERN UNIVERSITY, have invented an invention entitled, "Long Wavelength DH, SCH and MQW Lasers Based on Sb " (NU 97031) and filed a patent application thereon in the United States bearing Serial No. 08/870,985 on June 6, 1997; and

WHEREAS, the invention was made in the course of research supported by the Advanced Research Projects Agency (Grant #DAAH04-95-1-0343); and

WHEREAS, the United States Government is entitled to certain rights in and to said invention and application by reason of the terms of such support; and

WHEREAS, NORTHWESTERN UNIVERSITY, hereinafter called the "Licensor", has acquired by assignment from the inventor the entire right, title and interest of the inventor to such invention;

NOW, THEREFORE

1. The Licensor, in consideration of the premises and other good and valuable considerations, hereby grants and conveys to the United States Government (including any agency thereof, state, or domestic municipal government) a royalty-free, non-exclusive, and irrevocable license to make use and sell for any governmental purposes, and on behalf of any foreign government pursuant to any existing or future treaty or agreement with the United States of America, embodiments of the invention described in the aforesaid application and in any and all divisions, continuations and continuations-in-part thereof, and in any and all reissues thereof, during the full term or terms thereof.

2. The Licensor covenants and warrants that it has the right to grant the fore-going license, and that any assignment which it may make of the invention or the said patent applications or patents thereon, shall expressly be made subject to this license.

3. The Licensor agrees that the Government shall not be estopped at any time to contest the enforceability, validity, scope of, or title to any patent or patent application herein licensed.

11/10/97

(Date)

NORTHWESTERN UNIVERSITY

By: C. William Kern
C. William Kern, Ph.D.
Title: Vice President for Research and
Graduate Studies

Northwestern University
633 Clark Street
Evanston, Illinois 60208-1111



DEFENSE ADVANCED RESEARCH PROJECTS AGENCY
3701 NORTH FAIRFAX DRIVE
ARLINGTON, VA 22203-1714

OCT 7 1998

Commissioner of Patents and Trademarks
United States Patent and Trademark Office
Box Assignments
Washington, D.C. 20231

Attention: Register of Government Interest in Patents

Dear Sir:

Forwarded herewith is a cover sheet (as required by 37 CFR 3.31) and the original and one copy of an instrument confirming the conveyance to the United States Government of certain rights in and to Patent Application Serial No. 08/870,985 filed on June 6, 1997.


This instrument is forwarded in accordance with Executive Order No. 9424 and 37 CFR Part 7 for recording in the Public portion of the Register of Government Interests.

After the enclosed license is recorded, please return the original to:

Advanced Research Projects Agency
3701 North Fairfax Drive
Arlington, VA 22203-1714

Attn: Office of General Counsel

Sincerely,


Jewel L. Miller
Assistant General Counsel