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RECC

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Name: National Science Foundation

Internal Address: Office of the General Counsel

Suite 1265

Street Address: 4201 Wilson Boulevard

City: Arlington State: VA Zip: 22230

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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) 09/574,835

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Robin Clay Fritsch

Internal Address: Office of the General Counsel

Suite 1265

Street Address: 4201 Wilson Boulevard

City: Arlington State: VA Zip: 22230

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41).....\$ 0.00

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PATENT

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# LICENSE TO THE UNITED STATES GOVERNMENT

WHEREAS, Seng-Tiong Ho, of NORTHWESTERN UNIVERSITY, have invented an invention entitled, " Nanophotonic Directional Coupler Device" (NU 99030) and filed a patent application thereon in the United States bearing Serial No. 09/574,835 on May 19, 2000; and

WHEREAS, the invention was made in the course of research supported by the National Science Foundation (Grant No. ECS-9502475); 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.

NORTHWESTERN UNIVERSITY

By:   
Lydia Villa-Komaroff, Ph.D.

Title: Vice President for Research

Northwestern University  
633 Clark Street  
Evanston, Illinois 60208-1111/1108

\_\_\_\_\_  
(Date)

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