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(Rev. 03/01)

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

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Massachusetts Institute of Technology

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- ☐ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☒ Other Confirmatory License

Execution Date: 03/20/02

2. Name and address of receiving party(ies)

Name: National Science Foundation

Internal Address: Office of the General Counsel

Suite 1265

Street Address: 4201 Wilson Boulevard

City: Arlington State: VA Zip: 22239

Additional name(s) & address(es) attached? ☐ Yes ☒ 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) 09/253,379

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

☐ Enclosed☐ Authorized to be charged to deposit account

8. Deposit account number:

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9. Signature.

Robin Clay Fritsch

Name of Person Signing

Signature

7/12/02

Date

Total number of pages including cover sheet, attachments, and documents: ☐Mail documents to be recorded with required cover sheet information to:  
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LICENSE TO THE UNITED STATES GOVERNMENT

WHEREAS, John Joannopoulos, et al has invented "Omnidirectional Reflection from a One-Dimensional Photonic Crystal" and filed a patent application thereon in the United States, entitled "High Omnidirectional Reflector" and bearing Serial Number 09/253,379 and filing date February 19, 1999; and

WHEREAS, invention was made in the course of research supported by the National Science Foundation under N.S.F. Grant 9400334-DMR; and

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

WHEREAS, the Massachusetts Institute of Technology, hereinafter called the "Licensor" has acquired by assignment from the inventors the entire right, title and interest of the inventors to such invention;

NOW, THEREFORE:

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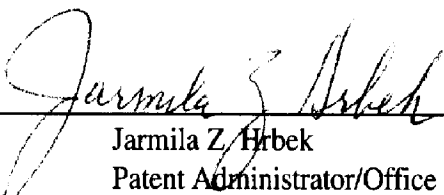
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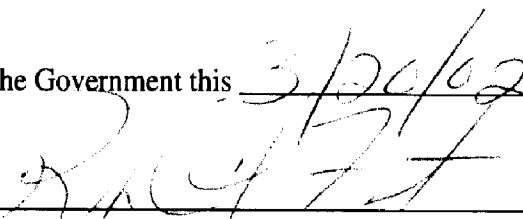
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Signed this 3 day of May, 1999 .

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

  
\_\_\_\_\_  
Jarmila Z. Hrbek  
Patent Administrator/Office Manager

Accepted for the benefit of the Government this

3/20/02  
  
\_\_\_\_\_  
Patent Paralegal