

**Mail Stop:**

Assignment Recordation Services  
Director of the U.S. Patent  
and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RECORDATION FORM COVER SHEET**  
**PATENTS ONLY**

**U.S. DEPARTMENT OF COMMERCE**  
**Patent and Trademark Office**

Attorney Docket No. 138074

Please record the attached document.

Total number of pages including cover sheet, attachments, and document 2

1. A. Name of conveying parties:

1. Susumu NODA
2. Yoshitaka KUROSAKA
3. Kyosuke SAKAI
4. Eiji MIYAI
5. Dai OHNISHI
6. Wataru KUNISHI

B. Additional names of conveying parties attached?

☐ Yes ☒ No

2. A. Name and address of receiving parties:

1. JAPAN SCIENCE AND  
TECHNOLOGY AGENCY  
4-1-8, HONCHO  
KAWAGUCHI-SHI  
SAITAMA 332-0012  
JAPAN

2. ROHM CO., LTD.  
21, SAIN MIZOSAKI-CHO  
UKYO-KU, KYOTO-SHI  
615-8585, JAPAN

B. Additional names & addresses attached?

☐ Yes ☒ No

3. A. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

B. Execution Date: 1.: September 24, 2008; 2. and 3.:  
September 12, 2008; 4., 5. and 6.: September 13,  
2008

4. A. Patent Application No. 12/230,494

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☐ No

C. Title of Application: PHOTONIC CRYSTAL LASER

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

Name: James A. Oliff

Address: OLIFF & BERRIDGE, PLC  
P.O. Box 320850  
Alexandria, VA 22320-4850  
Phone Number: 703-836-6400  
Fax Number: 703-836-2787

6. Total number of applications and patents involved: 1

7. Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of \$40.00.

8. Credit any overpayment or charge any underpayment to deposit account number 15-0461.

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.*

James A. Oliff, Registration No. 27,075  
Benjamin S. Prebyl, Registration No. 60,256

Date: November 12, 2008

CH \$40.00 150461 12230494

# **ASSIGNMENT (Two Assignees)**

|       |                                     |                               |                           |
|-------|-------------------------------------|-------------------------------|---------------------------|
| (1-8) | Insert<br>Name(s)<br>of Inventor(s) | (1) <u>Susumu NODA</u>        | (4) <u>Eiji MIYAI</u>     |
|       |                                     | (2) <u>Yoshitaka KUROSAKA</u> | (5) <u>Dai OHNISHI</u>    |
|       |                                     | (3) <u>Kyosuke SAKAI</u>      | (6) <u>Wataru KUNISHI</u> |

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to

|       |                                   |       |  |
|-------|-----------------------------------|-------|--|
| (9A)  | Insert Name of First Assignee     | (9A)  | <u>Japan Science and Technology Agency</u>                               |
| (10A) | Insert Address of First Assignee  | (10A) | <u>4-1-8, Honcho, Kawaguchi-shi, Saitama 332-0012, Japan</u>             |
| (9B)  | Insert Name of Second Assignee    | (9B)  | <u>ROHM CO., LTD.</u>  |
| (10B) | Insert Address of Second Assignee | (10B) | <u>21, Saiin Mizosaki-cho, Ukyo-ku, Kyoto-shi, Kyoto 615-8585, Japan</u> |

(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, confirmation, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

|      |   |                     |                               |
|------|---|---------------------|-------------------------------|
| (11) | Insert Identification, such as Title, Case Number or Foreign Application Number | (11)                | <u>PHOTONIC CRYSTAL LASER</u> |
|      |   | Attorney Docket No. | <u>138074</u>                 |

for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or

|      |   |      |  |
|------|---|------|--|
| (12) | Insert Date of Signing of Application             | (12) | on <u>September 12, 13 and 24, 2008</u>  |
| (13) | Alternative Identification for filed applications | (13) | U.S. Application Serial Number <u>12/230,494</u><br>filed <u>August 29, 2008</u> |

1) Each undersigned agrees to execute all papers necessary in connection with the application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignees may deem necessary.

2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof, or any patent or reissue application based thereon, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignees.

5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all Letters Patents of the United States resulting from said application or any divisional, continuing or reissue applications to the said Assignees as Assignees of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives.

6) Each undersigned hereby grants the firm of **OLIFF & BERRIDGE, PLC** the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

|      |                        |                    |                           |        |
|------|------------------------|--------------------|---------------------------|--------|
| Date | <u>Sept. 12 / 2008</u> | Inventor Signature | <u>Susumu Noda</u>        | (SEAL) |
| Date | <u>Sept. 12 / 2008</u> | Inventor Signature | <u>Yoshitaka Kurosaka</u> | (SEAL) |
| Date | <u>Sept. 12 / 2008</u> | Inventor Signature | <u>Kyosuke Sakai</u>      | (SEAL) |
| Date | <u>Sept. 13 / 2008</u> | Inventor Signature | <u>Eiji Miyai</u>         | (SEAL) |
| Date | <u>Sept. 13 / 2008</u> | Inventor Signature | <u>Wataru Kunishi</u>     | (SEAL) |
| Date | <u>Sept. 13 / 2008</u> | Inventor Signature | <u>Dai Ohnishi</u>        | (SEAL) |

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date \_\_\_\_\_

Witness \_\_\_\_\_

Date \_\_\_\_\_

Witness \_\_\_\_\_

**PATENT**

**RECORDED: 11/12/2008**

**REEL: 021826 FRAME: 0588**