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FORM PTO-1595  
(Rev. 6-93)RECORDATION FORM COVER SHEET  
PATENTS ONLY

Attorney Docket No.: 46884-5594

To the Commissioner for Patents

ATTN: MAIL STOP ASSIGNMENT RECORDATION SERVICES

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

- (1) Masamichi YAMANISHI  
(2) Tadataka EDAMURA  
(3) Naota AKIKUSA  
(4) Kazuue FUJITA

Additional names of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and address of receiving party(ies):

Name: HAMAMATSU PHOTONICS K.K.

Address: 1126-1, Ichino-cho, Higashi-ku,  
Hamamatsu-shi, Shizuoka 435-8558 Japan

3. Nature of conveyance:

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

Execution Date: September 4, 2007

Additional name(s) &amp; address(es) attached?

☐ Yes ☒ No

4. New 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) 11/896,115

B. Patent No.(s)

Additional numbers attached: ☐ Yes ☒ No5. Name and address of party to whom correspondence  
concerning document should be mailed:Name: John G. SmithInternal Address: DRINKER BIDDLE & REATH LLP  
Customer No. 55694Street Address: 1500 K. Street, N.W., Suite 1100  
City: Washington State: D.C. Zip: 20005-1209

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. §3.41): \$40.00☒ Enclosed☐ Authorized to be charged to Deposit Account  
50-0573

8. Deposit Account No. 50-0573

(Attach duplicate page if paying by deposit account)

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.Peter J. Sistare, Reg. No. 48,183

Name of Person Signing

Signature

May 19, 2008

Date

Total number of pages including cover sheet, attachments and documents: 2

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PATENT  
REEL: 020989 FRAME: 0559

**ASSIGNMENT**

Whereas, I/we,

NameAddress1) **Masamichi YAMANISHI**

c/o Hamamatsu Photonics K.K.,

1126-1, Ichino-cho, Higashi-ku,  
Hamamatsu-shi, Shizuoka 435-8558 Japan

c/o Hamamatsu Photonics K.K.,

2) **Tadataka EDAMURA**1126-1, Ichino-cho, Higashi-ku,  
Hamamatsu-shi, Shizuoka 435-8558 Japan

c/o Hamamatsu Photonics K.K.,

3) **Naota AKIKUSA**1126-1, Ichino-cho, Higashi-ku,  
Hamamatsu-shi, Shizuoka 435-8558 Japan

c/o Hamamatsu Photonics K.K.,

4) **Kazuue FUJITA**1126-1, Ichino-cho, Higashi-ku,  
Hamamatsu-shi, Shizuoka 435-8558 Japan

hereinafter called assignor(s), have invented certain improvements in  
**QUANTUM CASCADE LASER**

and executed an application for Letters Patent of the United States of America therefor on even date herewith unless  
 otherwise indicated below:

filed on August 29, 2007, Serial No. 11/896115; and

Whereas

**HAMAMATSU PHOTONICS K.K.**

1126-1, Ichino-cho, Higashi-ku,  
 Hamamatsu-shi, Shizuoka 435-8558 Japan

(assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States  
 patents to be obtained therefor;

NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of which is  
 hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign,  
 transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to  
 this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States  
 which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of  
 Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and  
 assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with  
 assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal  
 proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or  
 desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional,  
 continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its  
 successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being  
 understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and  
 assigns.

INVENTORSDATE SIGNED

1): Masamichi Yamanishi  
 Name: **Masamichi YAMANISHI**

2): Tadataka Edamura  
 Name: **Tadataka EDAMURA**

3): Naota Akikusa  
 Name: **Naota AKIKUSA**

4): Kazuue FUJITA  
 Name: **Kazuue FUJITA**

04/September/2007

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(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. § 261)