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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

SHEET



Attorney Docket No.: 46884-5412

To the Commissioner for Pate.

103254200

ASSIGNMENT RECORDATION SERVICES

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

(1) Katsumi SHIBAYAMA  
(2) Yutaka KUSUYAMA  
(3) Masahiro HAYASHI

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, Hamamatsu-shi,  
Shizuoka 435-8558 Japan

3. Nature of conveyance:

Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: (1) August 25, 2005, (2) August 29,  
2005 and (3) August 30, 2005

Additional name(s) & 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) 10/546,604 B. Patent No.(s)

Additional numbers attached:  Yes  No

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

Name: Peter J. Sistare

Internal Address: DRINKER BIDDLE & REATH LLP  
Customer No. 55694

Street 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 31, 2006  
 Date

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

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( 40.00 DP )

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PATENT  
REEL: 018092 FRAME: 0069

**ASSIGNMENT**

Whereas, I/we,

NameAddress1) **Katsumi SHIBAYAMA**c/o Hamamatsu Photonics K.K.,  
1126-1, Ichino-cho,  
Hamamatsu-shi, Shizuoka 435-8558 Japan2) **Yutaka KUSUYAMA**c/o Hamamatsu Photonics K.K.,  
1126-1, Ichino-cho,  
Hamamatsu-shi, Shizuoka 435-8558 Japan3) **Masahiro HAYASHI**1126-1, Ichino-cho,  
Hamamatsu-shi, Shizuoka 435-8558 Japan

hereinafter called assignor(s), have invented certain improvements in  
**SEMICONDUCTOR DEVICE AND RADIATION DETECTOR USING THE SAME**

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 23, 2005, Serial No. 10/546,604; and

Whereas

**HAMAMATSU PHOTONICS K.K.**1126-1, Ichino-cho,  
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):

Name:

*Katsumi Shibayama*  
\_\_\_\_\_  
**Katsumi SHIBAYAMA***August 25, 2005*  
\_\_\_\_\_

2):

Name:

*Yutaka Kusuyama*  
\_\_\_\_\_  
**Yutaka KUSUYAMA***Aug. 29, 2005*  
\_\_\_\_\_

3):

Name:

*Masahiro Hayashi*  
\_\_\_\_\_  
**Masahiro HAYASHI***Aug. 30, 2005*  
\_\_\_\_\_

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