

# PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

| SUBMISSION TYPE:   | NEW ASSIGNMENT                 |               |                          |                     |                                |                  |                         |                |            |                  |            |
|--|--------------------------------|---------------|--------------------------|---------------------|--------------------------------|------------------|-------------------------|----------------|------------|------------------|------------|
| NATURE OF CONVEYANCE:  | ASSIGNMENT                     |               |                          |                     |                                |                  |                         |                |            |                  |            |
| <b>CONVEYING PARTY DATA</b>  |                                |               |                          |                     |                                |                  |                         |                |            |                  |            |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Naoya MATSUMOTO</td> <td>06/08/2010</td> </tr> <tr> <td>Norihiro FUKUCHI</td> <td>06/08/2010</td> </tr> <tr> <td>Takashi INOUE</td> <td>06/16/2010</td> </tr> <tr> <td>Yasunori IGASAKI</td> <td>06/14/2010</td> </tr> </tbody> </table> |                                | Name          | Execution Date           | Naoya MATSUMOTO     | 06/08/2010                     | Norihiro FUKUCHI | 06/08/2010              | Takashi INOUE  | 06/16/2010 | Yasunori IGASAKI | 06/14/2010 |
| Name   | Execution Date                 |               |                          |                     |                                |                  |                         |                |            |                  |            |
| Naoya MATSUMOTO  | 06/08/2010                     |               |                          |                     |                                |                  |                         |                |            |                  |            |
| Norihiro FUKUCHI   | 06/08/2010                     |               |                          |                     |                                |                  |                         |                |            |                  |            |
| Takashi INOUE  | 06/16/2010                     |               |                          |                     |                                |                  |                         |                |            |                  |            |
| Yasunori IGASAKI   | 06/14/2010                     |               |                          |                     |                                |                  |                         |                |            |                  |            |
| <b>RECEIVING PARTY DATA</b>  |                                |               |                          |                     |                                |                  |                         |                |            |                  |            |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>HAMAMATSU PHOTONICS K.K.</td> </tr> <tr> <td>Street Address:</td> <td>1126-1, Ichino-cho, Higashi-ku</td> </tr> <tr> <td>City:</td> <td>Hamamatsu-shi, Shizuoka</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>435-8558</td> </tr> </table>                                |                                | Name:         | HAMAMATSU PHOTONICS K.K. | Street Address:     | 1126-1, Ichino-cho, Higashi-ku | City:            | Hamamatsu-shi, Shizuoka | State/Country: | JAPAN      | Postal Code:     | 435-8558   |
| Name:  | HAMAMATSU PHOTONICS K.K.       |               |                          |                     |                                |                  |                         |                |            |                  |            |
| Street Address:  | 1126-1, Ichino-cho, Higashi-ku |               |                          |                     |                                |                  |                         |                |            |                  |            |
| City:  | Hamamatsu-shi, Shizuoka        |               |                          |                     |                                |                  |                         |                |            |                  |            |
| State/Country:   | JAPAN                          |               |                          |                     |                                |                  |                         |                |            |                  |            |
| Postal Code:   | 435-8558                       |               |                          |                     |                                |                  |                         |                |            |                  |            |
| <b>PROPERTY NUMBERS Total: 1</b>   |                                |               |                          |                     |                                |                  |                         |                |            |                  |            |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12746183</td> </tr> </tbody> </table>  |                                | Property Type | Number                   | Application Number: | 12746183                       |                  |                         |                |            |                  |            |
| Property Type  | Number                         |               |                          |                     |                                |                  |                         |                |            |                  |            |
| Application Number:  | 12746183                       |               |                          |                     |                                |                  |                         |                |            |                  |            |
| <b>CORRESPONDENCE DATA</b>   |                                |               |                          |                     |                                |                  |                         |                |            |                  |            |
| <p>Fax Number: (202)204-0289</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 202-842-8800</p> <p>Email: joann.ennis@dbr.com</p> <p>Correspondent Name: DRINKER BIDDLE &amp; REATH (DC)</p> <p>Address Line 1: 1500 K STREET, N.W.</p> <p>Address Line 2: SUITE 1100</p> <p>Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20005-1209</p>                                   |                                |               |                          |                     |                                |                  |                         |                |            |                  |            |
| ATTORNEY DOCKET NUMBER:  | 46884-5788 (453427)            |               |                          |                     |                                |                  |                         |                |            |                  |            |
| NAME OF SUBMITTER:   | Peter J. Sistare               |               |                          |                     |                                |                  |                         |                |            |                  |            |
| Total Attachments: 1   |                                |               |                          |                     |                                |                  |                         |                |            |                  |            |

OP \$40.00 12746183

**501256720**

**PATENT**  
**REEL: 024808 FRAME: 0958**



**ASSIGNMENT**

Whereas, I/we,

NameAddress1) **Naoya MATSUMOTO**

c/o Hamamatsu Photonics K.K.,

1126-1, Ichino-cho, Higashi-ku,  
Hamamatsu-shi, Shizuoka 435-8558 Japan2) **Norihiro FUKUCHI**

c/o Hamamatsu Photonics K.K.,

1126-1, Ichino-cho, Higashi-ku,  
Hamamatsu-shi, Shizuoka 435-8558 Japan3) **Takashi INOUE**

c/o Hamamatsu Photonics K.K.,

1126-1, Ichino-cho, Higashi-ku,  
Hamamatsu-shi, Shizuoka 435-8558 Japan4) **Yasunori IGASAKI**

c/o Hamamatsu Photonics K.K.,

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

hereinafter called assignor(s), have invented certain improvements in  
**Phase Modulating Apparatus and Phase Modulating Method**

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

filed on June 4, 2010Serial No. 12/746183

; 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):

Name:

Naoya Matsumoto**Naoya MATSUMOTO**8/JUNE/2010

2):

Name:

Norihiro Fukuchi**Norihiro FUKUCHI**8/JUNE/2010

3):

Name:

Takashi Inoue**Takashi INOUE**16/JUNE/2010

4):

Name:

Yasunori Igasaki**Yasunori IGASAKI**14/JUNE/2010

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