### PATENT ASSIGNMENT

Electronic Version v1.1  
Stylesheet Version v1.1

<table>
<thead>
<tr>
<th>SUBMISSION TYPE:</th>
<th>NEW ASSIGNMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>NATURE OF CONVEYANCE:</td>
<td>ASSIGNMENT</td>
</tr>
</tbody>
</table>

#### CONVEYING PARTY DATA

<table>
<thead>
<tr>
<th>Name</th>
<th>Execution Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kouji Arikawa</td>
<td>11/25/1999</td>
</tr>
<tr>
<td>Susumu Tachibana</td>
<td>11/25/1999</td>
</tr>
<tr>
<td>Kazuo Shigematsu</td>
<td>11/25/1999</td>
</tr>
<tr>
<td>Hideo Taguchi</td>
<td>12/04/1999</td>
</tr>
<tr>
<td>Shigeru Nakamura</td>
<td>11/25/1999</td>
</tr>
<tr>
<td>Tetsuya Tomobe</td>
<td>11/29/1999</td>
</tr>
</tbody>
</table>

#### RECEIVING PARTY DATA

**Hitachi, Ltd.**
- **Street Address:** 6, Kanda Surugadai 4-chome  
- **Internal Address:** Chiyoda-ku  
- **City:** Tokyo  
- **State/Country:** JAPAN

**Hitachi Tohbu Semiconductor, Ltd.**
- **Street Address:** 1-1, Nishiyokote-cho  
- **Internal Address:** Takasaki-shi  
- **City:** Gunma  
- **State/Country:** JAPAN

**Hitachi Haramachi Electronics Ltd.**
- **Street Address:** 10-2, Bentenmach 3-chome  
- **Internal Address:** Hitachi-shi  
- **City:** Ibaraki  
- **State/Country:** JAPAN

### PROPERTY NUMBERS Total: 1

<table>
<thead>
<tr>
<th>Property Type</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PATENT**  
**REEL:** 026941 **FRAME:** 0425
<table>
<thead>
<tr>
<th>Patent Number:</th>
<th>6778486</th>
</tr>
</thead>
</table>

**CORRESPONDENCE DATA**

Fax Number: (415)576-0300  
Phone: 303.571.4000  
Email: cgray@kilpatricktownsend.com

*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.*

Correspondent Name: Kilpatrick Townsend & Stockton LLP  
Address Line 1: Two Embarcadero Center  
Address Line 2: Eighth Floor  
Address Line 4: San Francisco, CALIFORNIA 94111

**ATTORNEY DOCKET NUMBER:** 85202-607870 (005800US)

**NAME OF SUBMITTER:** Charles W. Gray

Total Attachments: 1  
source=16869P_005800US_Assignment#page1.tif
ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar ($1.00) or the equivalent thereof, and other good and valuable consideration paid to Kouji ARIKAWA, Susumu TACHIBANA, Kazuo SHIGEMATSU, Hideo TAGUCHI, Shigeru NAKAMURA, and Tetsuya TOMOBE citizens of Japan by HITACHI, LTD., Hitachi Tohbu Semiconductor, Ltd. and Hitachi Hamachimi Electronics Ltd. corporations organized under the laws of Japan, located at 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo, Japan, 1-1, Nishiyokote-cho, Takasaki-shi, Gunma, Japan, and 10-2, Bentenmachi 3-chome, Hitachi-shi, Ibaraki Japan, respectively, receipt of which is hereby acknowledged, we, the said Kouji ARIKAWA, Susumu TACHIBANA, Kazuo SHIGEMATSU, Hideo TAGUCHI, Shigeru NAKAMURA, and Tetsuya TOMOBE, do hereby sell and assign to said HITACHI, LTD., Hitachi Tohbu Semiconductor, Ltd. and Hitachi Hamachimi Electronics Ltd. their successors and assigns, all our right, title and interest, in and for the United States of America, in and to LASER MODULE, OPTICAL HEAD AND OPTICAL INFORMATION RECORDING AND REPRODUCING APPARATUS USING IT invented by us and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said HITACHI, LTD., and Hitachi Tohbu Semiconductor, Ltd. and Hitachi Hamachimi Electronics Ltd. their successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made;

And we hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI, LTD., and Hitachi Tohbu Semiconductor, Ltd. and Hitachi Hamachimi Electronics Ltd.

Signed on the date(s) indicated aside signatures:

INVENTOR(S)

Date Signed

1) Kouji Arikawa
   11/25/99

2) Susumu Tachibana
   11/25/99

3) Kazuo Shigematsu
   11/25/99

4) Hideo Taguchi
   12/4/99

5) Shigeru Nakamura
   11/25/99

6) Tetsuya Tomobe
   11/29/99

7) 

8) 

9) 

RECORDED: 09/21/2011

PATENT
REEL: 026941 FRAME: 0427