

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
CONVEYING PARTY DATA															
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Takashi Goh</td> <td>11/08/2011</td> </tr> <tr> <td>Yoshiyuki Doi</td> <td>12/19/2011</td> </tr> <tr> <td>Shinji Mino</td> <td>11/08/2011</td> </tr> <tr> <td>Ken Tsuzuki</td> <td>11/08/2011</td> </tr> <tr> <td>Hiroshi Yamazaki</td> <td>11/08/2011</td> </tr> <tr> <td>Takashi Yamada</td> <td>11/08/2011</td> </tr> </tbody> </table>		Name	Execution Date	Takashi Goh	11/08/2011	Yoshiyuki Doi	12/19/2011	Shinji Mino	11/08/2011	Ken Tsuzuki	11/08/2011	Hiroshi Yamazaki	11/08/2011	Takashi Yamada	11/08/2011
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RECEIVING PARTY DATA															
<table border="1"> <tr> <td>Name:</td> <td>Nippon Telegraph and Telephone Corporation</td> </tr> <tr> <td>Street Address:</td> <td>3-1, Otemachi 2-chome, Chiyoda-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>1008116</td> </tr> </table>		Name:	Nippon Telegraph and Telephone Corporation	Street Address:	3-1, Otemachi 2-chome, Chiyoda-ku	City:	Tokyo	State/Country:	JAPAN	Postal Code:	1008116				
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CORRESPONDENCE DATA															
<p>Fax Number: (801)328-1707 Phone: 801-533-9800 Email: dtangren@wnlaw.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: DANA L. TANGREN Address Line 1: 60 East South Temple Address Line 2: 1000 Eagle Gate Tower Address Line 4: Salt Lake City, UTAH 84111</p>															
ATTORNEY DOCKET NUMBER:	14321.151														

OP \$40.00 13381298

NAME OF SUBMITTER:

Dana L. Tangren

Total Attachments: 3

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WHEN RECORDED RETURN TO:

Workman Nydegger
1000 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111

PATENT APPLICATION

Docket No:

14321151

Form P4

ASSIGNMENT

We the under signed, hereinafter collectively referred to as "Assignor", are the inventors of an invention entitled

OPTICAL MODULATOR

Preferred embodiments of said invention are disclosed in a United States patent application which:

- ☐ [] is executed concurrently herewith for filing in the United States Patent and Trademark Office.
- ☐ [] was previously filed in the United States Patent and Trademark Office on , Application Serial No.
- ☒ [X] is a United States National Application of PCT International Application No. PCT/JP2010/004490, filed July 9, 2010.

The Assignees, NIPPON TELEGRAPH AND TELEPHONE CORPORATION, having a principal place of business at 3-1, Otemachi 2-chome, Chiyoda-ku, Tokyo 1008116 Japan desire to secure the entire right, title and interest in said invention.

In consideration of One Dollar (\$1.00) and other good and valuable consideration paid to Assignor by the Assignee, the receipt and sufficiency of which is hereby acknowledge, ASSIGNOR HEREBY ASSIGNS TO THE ASSIGNEE:

The entire right, title, and interest in the above identified United States patent application and in all divisions, continuations and continuations in part of said application, or reissues or extensions of letters patent or patents granted thereon, and in all patents issuing thereon in the United States and foreign countries.

The right to claim the benefits of any prior related United States or foreign patent applications.

Assignor hereby authorizes and requests the United States Commissioner of Patents and Trademarks, to issue any and all patents on said application to the Assignee as the owner of the entire interest, for the sole use and behoof of the said Assignee, its successors, assigns and legal representatives.

Assignor hereby agrees, without further consideration, to sign all lawful papers and to perform all other lawful acts which the Assignee may request Assignor to make this Assignment fully effective, including, by way of example but not of limitation, the following:

Prompt execution of all original, divisional, substitute, reissue, and other United States applications and all lawful documents requested by the Assignee to further the prosecution of any of such patent applications.

Cooperation to the best of Assignor's ability in the execution of all lawful documents, the production of evidence, nullification, reissue, extension, or infringement proceedings involving said application.

This assignment and agreement shall be binding upon Assignor's heirs and legal representatives.

Full name of sole or first inventor

<u>Takashi</u> (GIVEN NAME)	<u></u> (MIDDLE INITIAL OR NAME)	<u>GOH</u> FAMILY (OR LAST NAME)
Inventor's signature <u>Takashi Goh</u>		
Date <u>Nov. 8, 2011</u>	Country of Citizenship <u>Japan</u>	
Address <u>Atsugi-shi, Kanagawa-ken, Japan</u>		
<u></u>		

Full name of second inventor, if any

<u>Yoshiyuki</u> (GIVEN NAME)	<u></u> (MIDDLE INITIAL OR NAME)	<u>DOI</u> FAMILY (OR LAST NAME)
Inventor's signature <u>Yoshiyuki Doi</u>		
Date <u>Dec. 19, 2011</u>	Country of Citizenship <u>Japan</u>	
Address <u>Atsugi-shi, Kanagawa-ken, Japan</u>		

Full name of third inventor, if any

<u>Shinji</u> (GIVEN NAME)	<u></u> (MIDDLE INITIAL OR NAME)	<u>MINO</u> FAMILY (OR LAST NAME)
Inventor's signature <u>Shinji Mino</u>		
Date <u>Nov. 8, 2011</u>	Country of Citizenship <u>Japan</u>	
Address <u>Atsugi-shi, Kanagawa-ken, Japan</u>		

Full name of fourth inventor, if any

<u>Ken</u> (GIVEN NAME)	<u></u> (MIDDLE INITIAL OR NAME)	<u>TSUZUKI</u> FAMILY (OR LAST NAME)
Inventor's signature <u>Ken Tsuzuki</u>		
Date <u>Nov. 8, 2011</u>	Country of Citizenship <u>Japan</u>	
Address <u>Atsugi-shi, Kanagawa-ken, Japan</u>		

Full name of fifth inventor, if any

<u>Hiroshi</u> (GIVEN NAME)	<u></u> (MIDDLE INITIAL OR NAME)	<u>YAMAZAKI</u> FAMILY (OR LAST NAME)
Inventor's signature <u>Hiroshi Yamazaki</u>		
Date <u>Nov. 8, 2011</u>	Country of Citizenship <u>Japan</u>	
Address <u>Atsugi-shi, Kanagawa-ken, Japan</u>		

Full name of sixth inventor, if any

<u>Takashi</u> (GIVEN NAME)	<u></u> (MIDDLE INITIAL OR NAME)	<u>YAMADA</u> FAMILY (OR LAST NAME)
Inventor's signature <u>Takashi Yamada</u>		
Date <u>Nov. 8, 2011</u>	Country of Citizenship <u>Japan</u>	
Address <u>Atsugi-shi, Kanagawa-ken, Japan</u>		