

# PATENT ASSIGNMENT

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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>Motohaya Ishii</td> <td>05/19/2010</td> </tr> <tr> <td>Naoki Ooba</td> <td>05/19/2010</td> </tr> <tr> <td>Kenya Suzuki</td> <td>05/19/2010</td> </tr> <tr> <td>Shinji Mino</td> <td>05/19/2010</td> </tr> </tbody> </table>		Name	Execution Date	Motohaya Ishii	05/19/2010	Naoki Ooba	05/19/2010	Kenya Suzuki	05/19/2010	Shinji Mino	05/19/2010
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<b>RECEIVING PARTY DATA</b>											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">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>100-8116</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:	100-8116
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<b>PROPERTY NUMBERS Total: 1</b>											
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<b>CORRESPONDENCE DATA</b>											
<p>Fax Number: (801)328-1707</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 801.533.9800</p> <p>Email: dtangren@wnlaw.com</p> <p>Correspondent Name: DANA L. TANGREN</p> <p>Address Line 1: 60 East South Temple</p> <p>Address Line 2: 1000 Eagle Gate Tower</p> <p>Address Line 4: Salt Lake City, UTAH 84111</p>											
ATTORNEY DOCKET NUMBER:	14321.129										
NAME OF SUBMITTER:	Dana L. Tangren										
Total Attachments: 3											

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**PATENT**  
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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:

14321.129

Form P4

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A S S I G N M E N T

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We the under signed, hereinafter collectively referred to as "Assignor", are the inventors of an invention entitled OPTICAL CIRCUIT AND OPTICAL SIGNAL PROCESSING APPARATUS USING THE SAME 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 May 3, 2010, Application Serial No. 12/741,194,
- ☐ is a United States National Application of PCT International Application No. \_ \_ \_  
\_\_\_\_\_, filed \_\_\_\_\_.

The Assignees, NIPPON TELEGRAPH AND TELEPHONE CORPORATION, having a principal place of business at 3-1, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8116, 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

Motohaya  ISHII  
(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)

Inventor's signature Motohaya Ishii  
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Full name of second joint inventor, if any

Naoki  Ooba  
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Full name of third joint inventor, if any

Kenya  SUZUKI  
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Inventor's signature Kenya Suzuki

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Full name of fourth joint inventor, if any

Shinji  MINO  
(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)

Inventor's signature Shinji Mino

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Address Atsugi-shi, Kanagawa-ken, Japan

Full name of fifth joint inventor, if any

(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)

Inventor's signature

Date  Country of Citizenship

Address

Full name of sixth joint inventor, if any

(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)

Inventor's signature

Date  Country of Citizenship

Address