

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Keiichi Morita</td> <td>04/03/2013</td> </tr> <tr> <td>Kazumi Shimizu</td> <td>04/03/2013</td> </tr> <tr> <td>Kenya Suzuki</td> <td>04/03/2013</td> </tr> <tr> <td>Koji Kawashima</td> <td>04/03/2013</td> </tr> </tbody> </table>		Name	Execution Date	Keiichi Morita	04/03/2013	Kazumi Shimizu	04/03/2013	Kenya Suzuki	04/03/2013	Koji Kawashima	04/03/2013
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Keiichi Morita	04/03/2013										
Kazumi Shimizu	04/03/2013										
Kenya Suzuki	04/03/2013										
Koji Kawashima	04/03/2013										
RECEIVING PARTY DATA											
Name:	NTT ELECTRONICS CORPORATION										
Street Address:	1-32, Shin-Urashimacho 1-chome, Kanagawa-ku										
City:	Yokohama-shi, Kanagawa										
State/Country:	JAPAN										
Postal Code:	221-0031										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13881135</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13881135						
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Application Number:	13881135										
CORRESPONDENCE DATA											
Fax Number:	2033276401										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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ATTORNEY DOCKET NUMBER:	0009108USU/3294										
NAME OF SUBMITTER:	Paul D. Greeley										
Signature:	/Paul D. Greeley/										

Date:

04/23/2013

Total Attachments: 3

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RECORDATION FORM COVER SHEET: PATENTS ONLY

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DIRECTOR OF THE US PATENT AND TRADEMARK OFFICE
P.O. Box 1450
Alexandria, VA 22313-1450

Please record the attached original documents or copies thereof.

- 1. Name of conveying party(ies): **Keiichi MORITA; Kazumi SHIMIZU; Kenya SUZUKI; and Koji KAWASHIMA**
- 2. Name and address of receiving party(ies): **NTT ELECTRONICS CORPORATION
1-32, Shin-Urashimacho 1-chome,
Kanagawa-ku
Yokohama-shi, Kanagawa 221-0031
JAPAN**
- 3. Nature of conveyance:

<u>XXXX</u>	Assignment	<u> </u>	Merger
<u> </u>	Security Agreement	<u> </u>	Change of Name
<u> </u>	Other: _____		

Execution Date: **April 3, 2013**

- 4. Application number(s) or application date(s):
If this document is being filed together with a new application, the execution date of the application is: **April 23, 2013**

A. Application/Patent No. B. Application/Issue Date

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

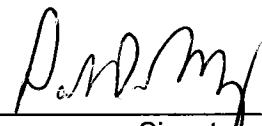
Paul D. Greeley, Esq.
Ohlandt, Greeley, Ruggiero & Perle, L.L.P.
One Landmark Square, 10th Floor
Stamford, Connecticut 06901-2682 U.S.A.

- 6. Total No. of applications and patents involved: 1 .
- 7. Total Fee (37 C.F.R. 3.41(h)) \$40.00/assignment.

XXXXX **CUSTOMER NO.: 27,623**
XXXXX Authorized to be charged to Deposit Account No. 01-0467.

The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. 3.41 that may be required with this communication or credit any overpayment, to **Deposit Account No. 01-0467** in the name of Ohlandt, Greeley, Ruggiero & Perle, L.L.P.

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.

<u>Paul D. Greeley</u>		04/23/2013
Name of Person Signing	Signature	Date

Total number of pages including cover sheet, attachments and document: 3 .

JOINT ASSIGNMENT

The ASSIGNORS, **MORITA, Keiichi**
c/o NTT Electronics Corporation
1-32, Shin-Urashimacho 1-chome, Kanagawa-ku, Yokohama-shi, Kanagawa
221-0031 JAPAN

SHIMIZU, Kazumi
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SUZUKI, Kenya
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KAWASHIMA, Koji
c/o NTT Electronics Corporation
1-32, Shin-Urashimacho 1-chome, Kanagawa-ku, Yokohama-shi, Kanagawa
221-0031 JAPAN

have invented certain new and useful improvements in

OPTICAL WAVEGUIDE AND ARRAYED WAVEGUIDE GRATING

an invention which is fully described in an application for Letters Patent of the United States executed by them this day; and

The ASSIGNEE, **NTT ELECTRONICS CORPORATION** a Japanese corporation having its principal office at **1-32, Shin-Urashimacho 1-chome, Kanagawa-ku, Yokohama-shi, Kanagawa 221-0031 JAPAN**, wishes to acquire the entire right, title and interest in and to the invention and under Letters Patent which may be obtained for this invention.

For valuable and legally sufficient considerations, receipt of which are hereby acknowledged, the Assignors sell, assign and transfer to Assignee, its successors and assigns, the entire right, title and interest for the United States in and to the above-identified invention and application, divisionals, continuations, and continuation-in-part and for the full term of any Letters Patent of the United States that may issue for the invention.

The Assignors also sell, assign and transfer to Assignee the entire right, title and interest in and to the invention and application for Letters Patent and Letters Patent therefor in all countries foreign to the United States,

including all rights under the International Convention. The Assignors further authorize Assignee to apply for Letters Patent in foreign countries in the name of Assignee, and to claim the priority of the filing date of the United States Application under the provisions of the International Convention.

The Assignors further agree, for themselves and their legal representatives, they will assist Assignee in the prosecution before the United States Patent Office and the Federal Courts of this application, and other applications for Letters Patent including renewals, continuations, divisions, reissues and substitutions, that the Assignee elects to make covering the invention. The Assignors vest in Assignee like exclusive title in and to all such other applications and Letters Patent. The Assignors will execute and deliver to Assignee any documents which may be requested by Assignee to carry out the terms of this Assignment.

The Commissioner of Patents of the United States is authorized and requested to issue Letters Patent of the United States to Assignee. The Assignors also authorize and request the equivalent authorities in foreign countries to issue the patents of foreign countries to Assignee.

MORITA, Keiichi
Inventor's Name

Keiichi Morita
Signature

April 3, 2013
Date

Koh Inoue
Witness

SHIMIZU, Kazumi
Inventor's Name

Kazumi Shimizu
Signature

April 3, 2013
Date

Koh Inoue
Witness

SUZUKI, Kenya
Inventor's Name

Kenya Suzuki
Signature

April 3, 2013
Date

Koh Inoue
Witness

KAWASHIMA, Koji
Inventor's Name

Koji Kawashima
Signature

April 3, 2013
Date

Koh Inoue
Witness