

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Hitoshi KITAGAWA</td> <td>12/20/2007</td> </tr> <tr> <td>Susumu NODA</td> <td>12/20/2007</td> </tr> <tr> <td>Takashi ASANO</td> <td>12/20/2007</td> </tr> </tbody> </table>		Name	Execution Date	Hitoshi KITAGAWA	12/20/2007	Susumu NODA	12/20/2007	Takashi ASANO	12/20/2007		
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<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:20%;">Name:</td> <td>ALPS ELECTRIC CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>1-7 Yukigaya</td> </tr> <tr> <td>Internal Address:</td> <td>Otsuka-cho, Ota-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JPX</td> </tr> </table>		Name:	ALPS ELECTRIC CO., LTD.	Street Address:	1-7 Yukigaya	Internal Address:	Otsuka-cho, Ota-ku	City:	Tokyo	State/Country:	JPX
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
Fax Number:	(408)255-8002										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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CH \$40.00 10927029

ATTORNEY DOCKET NUMBER:

ALPSP167

NAME OF SUBMITTER:

Masako Ando

Total Attachments: 2

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ASSIGNMENT OF PATENT APPLICATION

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

TWO-DIMENSIONAL PHOTONIC CRYSTAL SLAB, TWO-DIMENSIONAL PHOTONIC CRYSTAL WAVEGUIDE, AND OPTICAL DEVICE

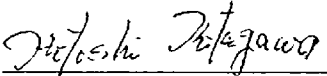
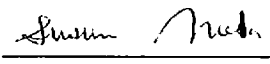
(Atty. Docket No. ALPSP167), (check one)

- for which I have executed a U.S. patent application on even date herewith. (Accompanying)
 which bears U.S. application No. 10/927,029. (Not accompanying)
 which is a U.S. provisional application. (Accompanying)

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:

- 1) Sell, assign and transfer to ALPS ELECTRIC CO., LTD., a Japanese corporation having a place of business at 1-7 Yukigaya, Otsuka-cho, Ota-ku, Tokyo, JAPAN ("ASSIGNEE") and KYOTO University, having a place of business at 36-1 Yoshida-honmachi, Sakyo-ku, Kyoto-shi, Kyoto, JAPAN ("ASSIGNEE"), the entire right, title and interest in any and all improvements and inventions disclosed in, applications based upon, and patents granted upon (including foreign patents and the right to claim priority), the above-referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all United States Patents resulting from said application or any division, continuation, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.
- 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
- 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that I have not entered and will not enter into any assignment, contract, or understanding that conflicts with this assignment.
- 6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.

Signed on the date indicated beside my signature.

- | | | |
|----|---|--------------------------------|
| 1) | Signature: <u></u> | Date: <u>December</u> 20, 2007 |
| | Typed Name: Hitoshi KITAGAWA | |
| 2) | Signature: <u></u> | Date: <u>December</u> 20, 2007 |
| | Typed Name: Susumu NODA | |

3) Signature: Takashi Asano Date: December 20, 2007
Typed Name: Takashi ASANO

If signed outside the United States of America, have two witnesses who also sign below:

1) Signature: Hideo Kurokawa Date: December 20, 2007
Printed Name: Hideo KUROKAWA

2) Signature: Shoshiro Kojima Date: December 20, 2007
Printed Name: Shoshiro KOJIMA