

## 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>Nobuo SUZUKI</td> <td>11/13/2012</td> </tr> <tr> <td>Mizunori EZAKI</td> <td>11/13/2012</td> </tr> </tbody> </table> |                                  | Name          | Execution Date | Nobuo SUZUKI        | 11/13/2012 | Mizunori EZAKI | 11/13/2012 |
| Name   | Execution Date                   |               |                |                     |            |                |            |
| Nobuo SUZUKI   | 11/13/2012                       |               |                |                     |            |                |            |
| Mizunori EZAKI   | 11/13/2012                       |               |                |                     |            |                |            |
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| 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>13684740</td> </tr> </tbody> </table>  |                                  | Property Type | Number         | Application Number: | 13684740   |                |            |
| Property Type  | Number                           |               |                |                     |            |                |            |
| Application Number:  | 13684740                         |               |                |                     |            |                |            |
| CORRESPONDENCE DATA  |                                  |               |                |                     |            |                |            |
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| ATTORNEY DOCKET NUMBER:  | 408153US2                        |               |                |                     |            |                |            |
| NAME OF SUBMITTER:   | Arielle Adams                    |               |                |                     |            |                |            |
| This document serves as an Oath/Declaration (37 CFR 1.63).   |                                  |               |                |                     |            |                |            |
| Total Attachments: 2<br>source=408153USASN#page1.tif<br>source=408153USASN#page2.tif   |                                  |               |                |                     |            |                |            |

OP \$40.00 13684740

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of  
Invention

ATHERMAL RING OPTICAL MODULATOR

As the below named inventor, I hereby declare that:

This declaration  The attached application, or

is directed to:  United States application or PCT international application number \_\_\_\_\_  
filed on \_\_\_\_\_

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

WHEREAS, Kabushiki Kaisha Toshiba

(hereinafter referred to as "ASSIGNEE") having places of business at: 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105-8001 Japan, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I, by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.

Further, I agree that I will communicate to said ASSIGNEE or its (his) representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

LEGAL NAME OF INVENTOR

Inventor: Nobuo SUZUKI

Date: November 13, 2012

Signature: Nobuo Suzuki

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.  
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