

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| 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 style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Masayuki HODONO</td> <td>07/16/2008</td> </tr> <tr> <td>Kunio NAGASAKI</td> <td>07/01/2008</td> </tr> <tr> <td>Miho YAMAGUCHI</td> <td>07/07/2008</td> </tr> <tr> <td>Shinji INOKUCHI</td> <td>06/30/2008</td> </tr> </tbody> </table> | | Name | Execution Date | Masayuki HODONO | 07/16/2008 | Kunio NAGASAKI | 07/01/2008 | Miho YAMAGUCHI | 07/07/2008 | Shinji INOKUCHI | 06/30/2008 |
| Name | Execution Date | | | | | | | | | | |
| Masayuki HODONO | 07/16/2008 | | | | | | | | | | |
| Kunio NAGASAKI | 07/01/2008 | | | | | | | | | | |
| Miho YAMAGUCHI | 07/07/2008 | | | | | | | | | | |
| Shinji INOKUCHI | 06/30/2008 | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>NITTO DENKO CORPORATION</td> </tr> <tr> <td>Street Address:</td> <td>1-2, Shimo-hozumi 1-chome, Ibaraki-shi</td> </tr> <tr> <td>City:</td> <td>Osaka</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>567-8680</td> </tr> </table> | | Name: | NITTO DENKO CORPORATION | Street Address: | 1-2, Shimo-hozumi 1-chome, Ibaraki-shi | City: | Osaka | State/Country: | JAPAN | Postal Code: | 567-8680 |
| Name: | NITTO DENKO CORPORATION | | | | | | | | | | |
| Street Address: | 1-2, Shimo-hozumi 1-chome, Ibaraki-shi | | | | | | | | | | |
| City: | Osaka | | | | | | | | | | |
| State/Country: | JAPAN | | | | | | | | | | |
| Postal Code: | 567-8680 | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12923158</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 12923158 | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 12923158 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
| Fax Number: (703)394-1399 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 7033941380 Email: bryce.guingrich@akerman.com Correspondent Name: Jean C. Edwards, Esq. Address Line 1: 8100 Boone Boulevard Address Line 2: Suite 700 Address Line 4: Vienna, VIRGINIA 22182 | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 71450.0253 (240734) | | | | | | | | | | |
| NAME OF SUBMITTER: | Jean C. Edwards, Esq. | | | | | | | | | | |
| Total Attachments: 2 | | | | | | | | | | | |

CH \$40.00 12923158

501327856

PATENT
REEL: 025179 FRAME: 0500

source=EXECUTED ASSIGNMENT (FROM PARENT APP) (TY121041)#page1.tif
source=EXECUTED ASSIGNMENT (FROM PARENT APP) (TY121041)#page2.tif

ASSIGNMENT

WHEREAS I/WE, Masayuki HODONO, Kunio NAGASAKI, Miho YAMAGUCHI and Shinji INOKUCHI, having an address of c/o NITTO DENKO CORPORATION of 1-2, Shimo-hozumi 1-chome, Ibaraki-shi, Osaka 567-8680, Japan, ("Assignor"), have made a certain new and useful invention as set forth in an application for United States Letters Patent entitled, Optical waveguide film, optical substrate, and methods for manufacturing the same, executed by me on the date of execution of this document, as shown below, and filed concurrently herewith;

OR USE

for which an application for United States Letters Patent was filed on July 31, 2008, and identified by United States Serial No. 12/222,035;

WHEREAS, Assignor believes himself to be the original, first and sole inventor of the invention disclosed and claimed in the application for Letters Patent; and

AND WHEREAS, NITTO DENKO CORPORATION, having an address of 1-2, Shimo-hozumi 1-chome, Ibaraki-shi, Osaka 567-8680, Japan ("Assignee"), is desirous of acquiring the entire right, title and interest in and to said invention, and in and to any and all Letters Patent of the United States and foreign countries which may be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt for and sufficiency of which is hereby acknowledged, Assignor does hereby sell, assign, transfer and set over unto Assignee, its legal representatives, successors and assigns, the entire right, title and interest in and to said invention, including the right to claim priority under 35 U.S.C. §119 and the right to sue for past infringement, as set forth in the above-mentioned application, including any continuations, continuations-in-part, divisions, reissues, re-examinations or extensions thereof, and in and to any and all patents of the United States and foreign countries which may be issued for said invention;

UPON SAID CONSIDERATION, Assignor hereby agrees with the said Assignee that Assignors will not execute any writing or do any act whatsoever conflicting with these presents, and that Assignors will, at any time upon request, without further or additional consideration but at the expense of said Assignee, execute such additional assignments and other writings and do such additional acts as said Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, continuations, continuations-in-part, reexamined, reissued, or extended Letters Patent of the United States or of any and all foreign countries on said invention, and in enforcing any rights or chooses in action accruing as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of the assigns and legal representatives of Assignors and Assignee;

The undersigned hereby grants the firm of **AKERMAN SENTERFITT** the power to insert on this Assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

AND Assignors request the Commissioner of Patents and Trademarks to issue any Letters Patent of the United States which may be issued for said invention to said Assignee, its legal representatives, successors or assigns, as the sole owner of the entire right, title and interest in and to said patent and the invention covered thereby.

Date: July 16 2008 Masayuki Hodono
Masayuki HODONO

Date: July 1. 2008 Kunio Nagasaki
Kunio NAGASAKI

Date: July 7. 2008 Miho Yamaguchi
Miho YAMAGUCHI

Date: June 30. 2008 Shinji INOKUCHI
Shinji INOKUCHI

(NOTE: Legalization is not required for recording, but is *prima facie* evidence of execution under 35 U.S.C. 261).