

## 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>Ryohei OGAWA</td> <td>08/23/2012</td> </tr> <tr> <td>Kiyoshi MIYASHITA</td> <td>08/17/2012</td> </tr> </tbody> </table>  |                                     | Name          | Execution Date                      | Ryohei OGAWA        | 08/23/2012                    | Kiyoshi MIYASHITA | 08/17/2012 |                |       |              |          |
| Name   | Execution Date                      |               |                                     |                     |                               |                   |            |                |       |              |          |
| Ryohei OGAWA   | 08/23/2012                          |               |                                     |                     |                               |                   |            |                |       |              |          |
| Kiyoshi MIYASHITA  | 08/17/2012                          |               |                                     |                     |                               |                   |            |                |       |              |          |
| RECEIVING PARTY DATA   |                                     |               |                                     |                     |                               |                   |            |                |       |              |          |
| <table border="1"> <tr> <td>Name:</td> <td>Nippon Sheet Glass Company, Limited</td> </tr> <tr> <td>Street Address:</td> <td>5-27, Mita 3-chome, Minato-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>108-6321</td> </tr> </table>                                  |                                     | Name:         | Nippon Sheet Glass Company, Limited | Street Address:     | 5-27, Mita 3-chome, Minato-ku | City:             | Tokyo      | State/Country: | JAPAN | Postal Code: | 108-6321 |
| Name:  | Nippon Sheet Glass Company, Limited |               |                                     |                     |                               |                   |            |                |       |              |          |
| Street Address:  | 5-27, Mita 3-chome, Minato-ku       |               |                                     |                     |                               |                   |            |                |       |              |          |
| City:  | Tokyo                               |               |                                     |                     |                               |                   |            |                |       |              |          |
| State/Country:   | JAPAN                               |               |                                     |                     |                               |                   |            |                |       |              |          |
| Postal Code:   | 108-6321                            |               |                                     |                     |                               |                   |            |                |       |              |          |
| 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>13581866</td> </tr> </tbody> </table>  |                                     | Property Type | Number                              | Application Number: | 13581866                      |                   |            |                |       |              |          |
| Property Type  | Number                              |               |                                     |                     |                               |                   |            |                |       |              |          |
| Application Number:  | 13581866                            |               |                                     |                     |                               |                   |            |                |       |              |          |
| CORRESPONDENCE DATA  |                                     |               |                                     |                     |                               |                   |            |                |       |              |          |
| <p>Fax Number: 6124553801</p> <p>Phone: 612.455.3800</p> <p>Email: hmccarty@hsmi.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Douglas P. Mueller</p> <p>Address Line 1: P.O. Box 2902</p> <p>Address Line 4: Minneapolis, MINNESOTA 55402</p> |                                     |               |                                     |                     |                               |                   |            |                |       |              |          |
| ATTORNEY DOCKET NUMBER:  | 14434.462USWO                       |               |                                     |                     |                               |                   |            |                |       |              |          |
| NAME OF SUBMITTER:   | Douglas P. Mueller                  |               |                                     |                     |                               |                   |            |                |       |              |          |
| <p>Total Attachments: 2</p> <p>source=assignment_462USWO#page1.tif</p> <p>source=assignment_462USWO#page2.tif</p>  |                                     |               |                                     |                     |                               |                   |            |                |       |              |          |

CH \$40.00 13581866

Docket No.

## ASSIGNMENT OF PATENT APPLICATION

WHEREAS,

1. Ryohei OGAWA residing at c/o Nippon Sheet Glass Company, Limited, 5-27, Mita 3-chome, Minato-ku, Tokyo 108-6321 Japan and a citizen of Japan  
2. Kiyoshi MIYASHITA residing at c/o Nippon Sheet Glass Company, Limited, 5-27, Mita 3-chome, Minato-ku, Tokyo 108-6321 Japan and a citizen of Japan  
(hereinafter called "THE UNDERSIGNED") have made an invention and have executed an application for Letters Patent of the United States for this invention which was filed on \_\_\_\_\_, entitled NOBLE METAL FINE PARTICLE SUPPORTED CATALYST AND METHOD FOR PRODUCING THE CATALYST, AND PURIFYING CATALYST, and which has been given application serial number \_\_\_\_\_;

and

WHEREAS Nippon Sheet Glass Company, Limited (hereinafter "ASSIGNEE") a corporation organized under the laws of Japan and having an office and place of business at 5-27, Mita 3-chome, Minato-ku, Tokyo 108-6321 Japan wishes to acquire the entire right, title and interest in and to said invention and patent application and any Letters Patent to be obtained therefor;

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, THE UNDERSIGNED hereby sell, assign, and transfer to the ASSIGNEE, its successors, legal representative and assigns, the entire right, title and interest for the United States in and to the invention disclosed in said application, and in and to said application, as well as to all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and THE UNDERSIGNED hereby authorize and request the Commissioner of Patents of the United States to issue all Letters Patent for said invention to the ASSIGNEE of the entire right, title and interest in and to the same, in accordance with the terms of this instrument.

THE UNDERSIGNED hereby agree that THE UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts known to the UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, its successors or assigns, the entire right, title and interest in and to the said invention, patent applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said ASSIGNEE, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by the UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.

Ryohai Ogawa  
Signature

August 23, 2012  
Date

Kiyoshi Miyashita  
Signature

August 17, 2012  
Date