

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>Takayoshi SASAKI</td> <td>10/15/2012</td> </tr> <tr> <td>Kazuko SARUWATARI</td> <td>10/15/2012</td> </tr> <tr> <td>Kazuaki MATSUBA</td> <td>10/15/2012</td> </tr> <tr> <td>Kousyo AKATSUKA</td> <td>10/15/2012</td> </tr> <tr> <td>Yasuo EBINA</td> <td>10/15/2012</td> </tr> <tr> <td>Minoru OSADA</td> <td>10/15/2012</td> </tr> </tbody> </table> | | Name | Execution Date | Takayoshi SASAKI | 10/15/2012 | Kazuko SARUWATARI | 10/15/2012 | Kazuaki MATSUBA | 10/15/2012 | Kousyo AKATSUKA | 10/15/2012 | Yasuo EBINA | 10/15/2012 | Minoru OSADA | 10/15/2012 |
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| Takayoshi SASAKI | 10/15/2012 | | | | | | | | | | | | | | |
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| Yasuo EBINA | 10/15/2012 | | | | | | | | | | | | | | |
| Minoru OSADA | 10/15/2012 | | | | | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Name:</td> <td>NATIONAL INSTITUTE FOR MATERIALS SCIENCE</td> </tr> <tr> <td>Street Address:</td> <td>2-1, Sengen 1-chome, Tsukuba-shi</td> </tr> <tr> <td>City:</td> <td>Ibaraki</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> </table> | | Name: | NATIONAL INSTITUTE FOR MATERIALS SCIENCE | Street Address: | 2-1, Sengen 1-chome, Tsukuba-shi | City: | Ibaraki | State/Country: | JAPAN | | | | | | |
| Name: | NATIONAL INSTITUTE FOR MATERIALS SCIENCE | | | | | | | | | | | | | | |
| Street Address: | 2-1, Sengen 1-chome, Tsukuba-shi | | | | | | | | | | | | | | |
| City: | Ibaraki | | | | | | | | | | | | | | |
| State/Country: | JAPAN | | | | | | | | | | | | | | |
| 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>13591372</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13591372 | | | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | | | |
| Application Number: | 13591372 | | | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | | | |
| <p>Fax Number: 2027218250 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Email: wlp@wenderoth.com</p> <p>Correspondent Name: Wenderoth, Lind & Ponack, L.L.P.</p> <p>Address Line 1: 1030 15th Street, N.W.</p> <p>Address Line 2: Suite 400 East</p> <p>Address Line 4: Washington, DISTRICT OF COLUMBIA 20005</p> | | | | | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 2012_1186A | | | | | | | | | | | | | | |
| NAME OF SUBMITTER: | Andrea Pantleo | | | | | | | | | | | | | | |
| <p>Total Attachments: 2 source=Assignment#page1.tif source=Assignment#page2.tif</p> | | | | | | | | | | | | | | | |

OP \$40.00 13591372

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned

Insert Name(s)
of Inventor(s) Takayoshi SASAKI
Kazuko SARUWATARI
Kazuaki MATSUBA
Kousyo AKATSUKA
Yasuo EBINA
Minoru OSADA

Insert Name(s)
of Assignee(s) the undersigned hereby sell(s) and assign(s) to
NATIONAL INSTITUTE FOR MATERIALS SCIENCE
Address of 2-1, Sengen 1-chome, Tsukuba-shi, Ibaraki, JAPAN

Title of
Invention (hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as

METHODS FOR PRODUCING A THIN FILM CONSISTING OF NANOSHEET
MONOLAYER FILM(S) BY SPIN COAT METHODS, AND HYPERHYDROPHILIZED
MATERIALS, SUBSTRATES FOR AN OXIDE THIN FILM AND DIELECTRIC
MATERIALS OBTAINED THEREFROM

Date of
Signing of
Application for which an application for patent in the United States has been executed by the undersigned
on _____

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of WENDEROTH, LIND & PONACK, L.L.P., 1030 15th Street, N.W., Suite 400 East, Washington, D.C. 20005-1503, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordal of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date October 15, 2012
Date October 15, 2012
Date October 15, 2012
Date October 15, 2012
Date October 15, 2012
Date October 15, 2012

Takayoshi Sasaki
Takayoshi SASAKI
Kazuko Saruwatari
Kazuko SARUWATARI
Kazuaki Matsuba
Kazuaki MATSUBA
Kosho Akatsuka
Kousyo AKATSUKA
Yasuo Ebina
Yasuo EBINA
Minoru Osada
Minoru OSADA

(This assignment should preferably be acknowledged before a United States Consul. If not, then the execution by the Inventor(s) should be witnessed by at least two witnesses who sign here.)

Witness _____

Witness _____

ACKNOWLEDGMENT

_____ } ss
_____ }

This _____ day of _____, 20____, before me personally came the above-named _____ to me personally known as the individual(s) who executed the foregoing assignment, who did acknowledge to me that he (they) executed the same of his (their) own free will for the purposes therein set forth.

SEAL

Official Signature

Official Title

The above application may be more particularly identified as follows:

U.S. Application Serial No.: NEW

Filing Date: August 22, 2012

Applicant Reference Number: 12F023US

Attorney Docket No.: 2012 1186A