

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>Shigeki HATTORI</td> <td>01/21/2013</td> </tr> <tr> <td>Koji ASAKAWA</td> <td>01/21/2013</td> </tr> <tr> <td>Hiroko NAKAMURA</td> <td>01/21/2013</td> </tr> <tr> <td>Ryota KITAGAWA</td> <td>01/21/2013</td> </tr> <tr> <td>Yuriko SEINO</td> <td>01/23/2013</td> </tr> <tr> <td>Masahiro KANNO</td> <td>01/23/2013</td> </tr> </tbody> </table> | | Name | Execution Date | Shigeki HATTORI | 01/21/2013 | Koji ASAKAWA | 01/21/2013 | Hiroko NAKAMURA | 01/21/2013 | Ryota KITAGAWA | 01/21/2013 | Yuriko SEINO | 01/23/2013 | Masahiro KANNO | 01/23/2013 |
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| Shigeki HATTORI | 01/21/2013 | | | | | | | | | | | | | | |
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| Yuriko SEINO | 01/23/2013 | | | | | | | | | | | | | | |
| Masahiro KANNO | 01/23/2013 | | | | | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | | | | | |
| <table border="1"> <tr> <td>Name:</td> <td>KABUSHIKI KAISHA TOSHIBA</td> </tr> <tr> <td>Street Address:</td> <td>1-1, Shibaura 1-chome, Minato-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> </table> | | Name: | KABUSHIKI KAISHA TOSHIBA | Street Address: | 1-1, Shibaura 1-chome, Minato-ku | City: | Tokyo | State/Country: | JAPAN | | | | | | |
| Name: | KABUSHIKI KAISHA TOSHIBA | | | | | | | | | | | | | | |
| Street Address: | 1-1, Shibaura 1-chome, Minato-ku | | | | | | | | | | | | | | |
| City: | Tokyo | | | | | | | | | | | | | | |
| 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>13750007</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13750007 | | | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | | | |
| Application Number: | 13750007 | | | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | | | |
| <p>Fax Number: 2024084400 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 2024084000 Email: Sopheareak.in@finnegan.com Correspondent Name: FINNEGAN HENDERSON Address Line 1: 901 NEW YORK AVE., NW Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20001</p> | | | | | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 02887.0824 | | | | | | | | | | | | | | |
| NAME OF SUBMITTER: | Sopheareak C. In | | | | | | | | | | | | | | |
| <p>Total Attachments: 3 source=Assignment_02887-0824#page1.tif source=Assignment_02887-0824#page2.tif source=Assignment_02887-0824#page3.tif</p> | | | | | | | | | | | | | | | |

OP \$40.00 13750007

Attorney Docket No.: 02887.0824

Customer No.: 22,852

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JOINT INVENTION
(U.S. Rights Only)

ASSIGNMENT

WHEREAS, we, the below named inventors, (hereinafter referred to as Assignors), have made an invention entitled:

PATTERN FORMATION METHOD AND POLYMER ALLOY BASE MATERIAL

for which we executed an application for United States Letters Patent concurrently herewith or on _____ or filed an application for United States Letters Patent on _____ (Application No. _____); and

WHEREAS, **KABUSHIKI KAISHA TOSHIBA**, a corporation of JAPAN, whose post office address is *1-1, Shibaura 1-chome, Minato-ku, Tokyo, Japan* (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, we, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY further covenant and agree that we will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

AND, WE HEREBY authorize and request the attorneys we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. 13/750,007, filed Jan. 25, 2013) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, we have hereunto set our hands.

First Assignor

Shigeki HATTORI
c/o Intellectual Property Division
Toshiba Corporation,
1-1, Shibaura 1-chome,
Minato-ku, Tokyo, JAPAN

Citizenship: JAPAN

Signature: Shigeki Hattori

Date: Jan 21, 2013

Second Assignor

Koji ASAKAWA
c/o Intellectual Property Division,
Toshiba Corporation,
1-1, Shibaura 1-chome,
Minato-ku, Tokyo, JAPAN

Citizenship: JAPAN

Signature: Koji Asakawa

Date: Jan 21, 2013

Third Assignor

Hiroko NAKAMURA
c/o Intellectual Property Division,
Toshiba Corporation,
1-1, Shibaura 1-chome,
Minato-ku, Tokyo, JAPAN

Citizenship: JAPAN

Signature: Hiroko Nakamura

Date: Jan 21, 2013

Fourth Assignor

Ryota KITAGAWA
c/o Intellectual Property Division,
Toshiba Corporation,
1-1, Shibaura 1-chome,
Minato-ku, Tokyo, JAPAN

Citizenship: JAPAN

Signature: Ryota Kitagawa

Date: ^{P.K. 21, Jan. 2013}
~~21~~ Jan. 2013

Jan. 21

Fifth Assignor

Yuriko SEINO
c/o Intellectual Property Division,
Toshiba Corporation,
1-1, Shibaura 1-chome,
Minato-ku, Tokyo, JAPAN

Citizenship: JAPAN

Signature: Yuriko Seino

Date: Jan. 23. 2013

Sixth Assignor

Masahiro KANNO
c/o Intellectual Property Division,
Toshiba Corporation,
1-1, Shibaura 1-chome,
Minato-ku, Tokyo, JAPAN

Citizenship: JAPAN

Signature: Masahiro Kanno

Date: Jan 23. 2013