

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>Atsushi Sawamoto</td> <td>05/30/2012</td> </tr> <tr> <td>Kenta Nishibara</td> <td>05/30/2012</td> </tr> <tr> <td>Akimitsu Tsukuda</td> <td>05/30/2012</td> </tr> </tbody> </table>		Name	Execution Date	Atsushi Sawamoto	05/30/2012	Kenta Nishibara	05/30/2012	Akimitsu Tsukuda	05/30/2012				
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<table border="1"> <tr> <td>Name:</td> <td>Toray Industries, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>1-1, Nihonbashi-Muromachi 2-chome</td> </tr> <tr> <td>Internal Address:</td> <td>Chuo-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>103-8666</td> </tr> </table>		Name:	Toray Industries, Inc.	Street Address:	1-1, Nihonbashi-Muromachi 2-chome	Internal Address:	Chuo-ku	City:	Tokyo	State/Country:	JAPAN	Postal Code:	103-8666
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CORRESPONDENCE DATA													
<p>Fax Number: (215)656-2498 Phone: 215-656-3381 Email: pto.phil@dlapiper.com <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: IP GROUP OF DLA PIPER LLP (US) Address Line 1: ONE LIBERTY PLACE Address Line 2: 1650 MARKET ST, SUITE 4900 Address Line 4: PHILADELPHIA, PENNSYLVANIA 19103</p>													
ATTORNEY DOCKET NUMBER:	TIP-12-1156 (308877-375)												
NAME OF SUBMITTER:	Leslie J. Hood												
Total Attachments: 1 source=Assignment#page1.tif													

CH \$40.00 13519609

ASSIGNMENT

WHEREAS, we, Atsushi Sawamoto; Kenta Nishibara and Akimitsu Tsukuda, all citizens of Japan, all residing at c/o Shiga Plant, Toray Industries, Inc., 1-1, Sonoyama 1-chome, Otsu-shi, Shiga 5208558 Japan, (hereinafter referred to as "the undersigned"), having made an invention entitled AROMATIC POLYAMIDE POROUS FILM AND SEPARATOR FOR CAPACITOR OR BATTERY USING THE SAME, identified in International Application No. PCT/JP2010/071678, and in US Application No. 13/519,609, (DLA Piper is authorized to insert the Serial No. when known),

WHEREAS, Toray Industries, Inc., with offices located at 1-1, Nihonbashi-Muromachi 2-chome, Chuo-ku, Tokyo 1038666, Japan (hereinafter referred to as "the assignee"), is desirous of acquiring the entire right, title and interest in said invention, said US application and all letters patent issuing for said invention,

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and of other good and valuable consideration, receipt of which is hereby acknowledged, the undersigned, intending to be legally bound, do hereby sell, assign and transfer to the assignee the entire right, title and interest, for the United States of America, its territories and possessions, and for all foreign countries, in said invention, including said US application, all divisions and continuations thereof, all rights to claim priority based thereon, all rights to file foreign applications on said invention, and all letters patent and reissues thereof, issuing for said invention in the United States of America and in any and all foreign countries.

It is agreed that the undersigned shall be legally bound, upon request of the assignee, or its successors or assigns or a legal representative thereof, to supply all information and evidence of which the undersigned has knowledge or possession, relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention in the United States of America and foreign countries in the name of the assignee, and to execute all instruments proper to carry out the intent of this instrument. If the undersigned includes more than one individual, these obligations shall apply to all of the undersigned both individually and collectively.

The rights and property herein conveyed by the undersigned are free and clear of any encumbrance.

EXECUTED on the date(s) set forth below.

May 30, 2012
Date

May 30, 2012
Date

May 30, 2012
Date

Atsushi Sawamoto
Atsushi Sawamoto

Kenta Nishibara
Kenta Nishibara

Akimitsu Tsukuda
Akimitsu Tsukuda