

## PATENT ASSIGNMENT

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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>Kohei Miyamoto</td> <td>04/10/2013</td> </tr> <tr> <td>Mitsushige Hamaguchi</td> <td>04/10/2013</td> </tr> <tr> <td>Hideyuki Umetsu</td> <td>04/10/2013</td> </tr> </tbody> </table>		Name	Execution Date	Kohei Miyamoto	04/10/2013	Mitsushige Hamaguchi	04/10/2013	Hideyuki Umetsu	04/10/2013				
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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: 2156562498  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 215-656-3381        Email: pto.phil@dlapiper.com        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:	MIP-13-1217 (382460-001)												
NAME OF SUBMITTER:	Leslie J. Hood												
Signature:	/LJH/												
Date:	06/25/2013												
Total Attachments: 1 source=Assignment#page1.tif													

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PATENT

## ASSIGNMENT

WHEREAS, we, Kohei MIYAMOTO, Mitsushige HAMAGUCHI, and Hideyuki UMETSU, all citizens of Japan, all residing at c/o Nagoya Plant, Toray Industries, Inc., 9-1, Oe-cho, Minato-ku, Nagoya-shi, Aichi, 455-8502 Japan, (hereinafter referred to as "the undersigned"), having made an invention entitled LIQUID CRYSTALLINE POLYESTER AND PRODUCTION METHOD OF THE SAME, identified in International Application No. PCT/IP2011/006969, and US Application No. 13/997,730, (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, 103-8666 Japan (hereinafter referred to as "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, does 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.

April 10, 2013  
Date

April 10, 2013  
Date

April 10, 2013  
Date

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Date

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Date

\_\_\_\_\_  
Date

Kohei Miyamoto  
Kohei MIYAMOTO

Mitsushige Hamaguchi  
Mitsushige HAMAGUCHI

Hideyuki Umetsu  
Hideyuki UMETSU

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