

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HIROO KATSUTA	02/24/2017
REO MITSUNAGA	02/24/2017
DAISUKE YAMAMOTO	02/24/2017
SHUNSUKE HORIUCHI	02/24/2017
YOSHITSUGU FUNATSU	02/24/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TORAY INDUSTRIES, INC.
<b>Street Address:</b>	1-1, NIHONBASHI-MUROMACHI 2-CHOME
<b>Internal Address:</b>	CHUO-KU
<b>City:</b>	TOKYO
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	103-8666
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15515519
<b>CORRESPONDENCE DATA</b>	
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<b>Address Line 4:</b>	PHILADELPHIA, PENNSYLVANIA 19103
<b>ATTORNEY DOCKET NUMBER:</b>	NBC-17-1137 (359344-19)
<b>NAME OF SUBMITTER:</b>	T. DANIEL CHRISTENBURY
<b>SIGNATURE:</b>	/TDC/
<b>DATE SIGNED:</b>	03/29/2017

**Total Attachments: 1**

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**ASSIGNMENT**

WHEREAS, we, 1. Hiroo KATSUTA, 2. Reo MITSUNAGA, 3. Daisuke YAMAMOTO, 4. Shunsuke HORIUCHI and 5. Yoshitsugu FUNATSU citizens of Japan, respectively, residing at 1. and 5.: c/o Mishima Plant, Toray Industries, Inc., 4845, Mishima-shi, Shizuoka 411-8652 Japan, 2.: c/o Ehime Plant, Toray Industries, Inc., 1515, Oaza-tsutsui, Masaki-cho, Iyo-gun, Ehime 791-3193 Japan 3. and 4.: c/o Nagoya Plant, Toray Industries, Inc., 9-1, Oe-cho, Minato-ku, Nagoya-shi, Aichi 455-8502 Japan, respectively, (hereinafter referred to as "the undersigned"), having made an invention entitled

POLYPHENYLENE SULFIDE FIBER

, identified in International Application No. PCT/JP2015/076911, and in US Application No. 15/515,519, (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 "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.

February 24, 2017  
Date

Hiroo Katsuta  
Hiroo KATSUTA

February 24, 2017  
Date

Reo Mitsunaga  
Reo MITSUNAGA

February 24, 2017  
Date

Daisuke Yamamoto  
Daisuke YAMAMOTO

February 24, 2017  
Date

Shunsuke Horinchi  
Shunsuke HORIUCHI

February 24, 2017  
Date

Yoshitsugu Funatsu  
Yoshitsugu FUNATSU