# 13260643

# ICH \$40.00

# PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### CONVEYING PARTY DATA

Name	Execution Date
Takeshi Ishihara	07/27/2011
Satoshi Miyaoka	07/26/2011
Koichi Kono	07/27/2011
Donna J. Crowther	08/01/2011
Patrick Brant	08/17/2011

### RECEIVING PARTY DATA

Name:	Toray Tonen Specialty Separator Godo Kaisha	
Street Address:	1190-13, Iguchi	
City:	Nasushiobara, Tochigi	
State/Country:	JAPAN	
Postal Code:	329-2763	

### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13260643

### CORRESPONDENCE DATA

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Mail.

Correspondent Name: IP GROUP OF DLA PIPER LLP (US)

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ATTORNEY DOCKET NUMBER:	TTS-10-1583WO2-US
NAME OF SUBMITTER:	Victorine B. Meise

Total Attachments: 2

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REEL: 026975 FRAME: 0517

### ASSIGNMENT

WHEREAS, we, Takeshi Ishihara, Satoshi Miyaoka, Koichi Kono, Donna J. Crowther and Patrick Brant, citizens of Japan, Japan, Japan, United States and United States, respectively, residing at c/o Nasu Plant, Toray Tonen Specialty Separator Godo Kaisha, 1190-13, Iguchi, Nasushiobara-shi, Tochigi-ken, 329-2763, Japan; c/o Nasu Plant, Toray Tonen Specialty Separator Godo Kaisha, 1190-13, Iguchi, Nasushiobara-shi, Tochigi-ken, 329-2763, Japan; c/o Nasu Plant, Toray Tonen Specialty Separator Godo Kaisha, 1190-13, Iguchi, Nasushiobara-shi, Tochigi-ken, 329-2763, Japan; 2725 Moss Court, Seabrook, Texas 77586 and 1038 Shorewood Drive, Seabrook, Texas 77586, respectively, (hereinafter referred to as "the undersigned"), having made an invention entitled MICROPOROUS MEMBRANES, METHODS FOR MAKING SUCH MEMBRANES, AND THE USE OF SUCH MEMBRANES AS BATTERY SEPARATOR FILM, identified in International Application No. PCT/US2010/026422, and in US Application No. 13/260/643...., (DLA Piper is authorized to insert the Serial No. when known).

WHEREAS. Toray Tonen Specialty Separator Godo Kaisha, with offices located at 1190-13, Iguchi, Nasushiobara-shi, Tochigi, 329-2763 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.	7 Ili
Date	Takeshi Ishihara
Date	Satoshi Miyaoka
<u> </u>	Kojchi Kono Conse / Conthu
Date	Donna J. Crowther
Date	Patrick Brant

## <u>ASSIGNMENT</u>

WHEREAS, we, Takeshi Ishihara, Satoshi Miyaoka, Koichi Kono, Donna J. Crowther and Patrick Brant, citizens of Japan, Japan, Japan, United States and United States, respectively, residing at c/o Nasu Plant, Toray Tonen Specialty Separator Godo Kaisha, 1190-13, Iguchi, Nasushiobara-shi, Tochigi-ken, 329-2763, Japan; c/o Nasu Plant, Toray Tonen Specialty Separator Godo Kaisha, 1190-13, Iguchi, Nasushiobara-shi, Tochigi-ken, 329-2763, Japan; c/o Nasu Plant, Toray Tonen Specialty Separator Godo Kaisha, 1190-13, Iguchi, Nasushiobara-shi, Tochigi-ken, 329-2763, Japan; 2725 Moss Court, Seabrook, Texas 77586 and 1038 Shorewood Drive, Seabrook, Texas 77586, respectively, (hereinafter referred to as "the undersigned"), having made an invention entitled MICROPOROUS MEMBRANES, METHODS FOR MAKING SUCH MEMBRANES, AND THE USE OF SUCH MEMBRANES AS BATTERY SEPARATOR FILM, identified in International Application No. PCT/US2010/026422, and in US Application No. 13/260,643 , (DLA Piper is authorized to insert the Serial No. when known),

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EXECUTED on the date(s) set forth below.  Date	7. Ive
July 26, 2011	Takeshi Ishihara 夏辰 月
Date  Date  Date	Satoshi Miyaoka Koichi Kono
Date Date Date	Donna J. Growther Patrick Brant

PATENT REEL: 026975 FRAME: 0519

RECORDED: 09/27/2011