

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
CONVEYING PARTY DATA																	
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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, 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, Chuo-ku	City:	Tokyo	State/Country:	JAPAN	Postal Code:	103-8666						
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CORRESPONDENCE DATA																	
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ATTORNEY DOCKET NUMBER:	0599-0300PUS1																

OP \$40.00 13508693

NAME OF SUBMITTER:

ANDREW D. MEIKLE

Total Attachments: 3

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BIRCH, STEWART, KOLASCH & BIRCH, LLPUNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS**ASSIGNMENT**Application No. 13/508,693 Filed May 08, 2012Insert Name(s)
of Inventor(s) *****[Given Name FAMILY NAME (ALL CAPS)]*****

WHEREAS, Kentaro TAKAGI, Tomoko MITSUHATA, Takao SASAKI, Takeharu INOUE, Takashi YOSHINO, Kiyohiko TAKAYA, Yutaro SUZUKI (hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in:

Insert Title
of Invention **SEMI-IMPERMEABLE MEMBRANE AND MANUFACTURING METHOD THEREFOR**

for which an application for Letters Patent of the United States of America has been executed by the undersigned (except in the case of a provisional application)

Insert Date
of Signing of
Application On May 22, 2012; May 23, 2012; and May 28, 2012; andInsert Name
of Assignee **WHEREAS, TORAY INDUSTRIES, INC.**Insert Address
of Assignee of I-1, Nihonbashi-Muromachi 2-chome, Chuo-ku, Tokyo 103-8666, Japan

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and

CHECK BOX
IF APPROPRIATE ☒ **in any foreign countries.**

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries; and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date <u>May 22, 2012</u>	Name of Inventor <u>Kentaro Takagi</u> (signature) Kentaro TAKAGI
Date <u>May 22, 2012</u>	Name of Inventor <u>Tomoko Mitsuhashi</u> (signature) Tomoko MITSUHASHI
Date <u>May 22, 2012</u>	Name of Inventor <u>Takao Sasaki</u> (signature) Takao SASAKI
Date <u>May 23, 2012</u>	Name of Inventor <u>Takeharu Inoue</u> (signature) Takeharu INOUE
Date <u>May 28, 2012</u>	Name of Inventor <u>Takashi Yoshino</u> (signature) Takashi YOSHINO
Date <u>May 22, 2012</u>	Name of Inventor <u>Kiyohiko Takaya</u> (signature) Kiyohiko TAKAYA

Date <u>May 22, 2012</u> ,	Name of Inventor <u>Yutaro Suzuki</u> (signature) Yutaro SUZUKI
Date _____,	Name of Inventor _____ (signature)
Date _____,	Name of Inventor _____ (signature)
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