

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
OSAMU OKADA	05/29/2015
NOBUAKI HANAI	05/29/2015
PENG YAN	05/29/2015
JUNYA MIYATA	05/27/2015
TAKEHIRO NAKASUJI	06/23/2015
HAYATO SUGIYAMA	06/26/2015
RECEIVING PARTY DATA	
Name:	RENAISSANCE ENERGY RESEARCH CORPORATION
Street Address:	102 ADVANCED CHEMICAL TECHNICAL CENTER IN KYOTO
Internal Address:	105 JIBU-CHO, FUSHIMI-KU, KYOTO-SHI
City:	KYOTO
State/Country:	JAPAN
Postal Code:	612-8374
Name:	SUMITOMO CHEMICAL COMPANY LIMITED
Street Address:	27-1, SHINKAWA 2-CHOME
Internal Address:	CHUO-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	104-8260
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14780965
CORRESPONDENCE DATA	
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
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Email:	kinocencio@hmbay.com
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PATENT	

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ATTORNEY DOCKET NUMBER:	RERC 1007-1/PUSC0053A7
NAME OF SUBMITTER:	JAMES F. HANN
SIGNATURE:	/James F. Hann/
DATE SIGNED:	09/28/2015
Total Attachments: 4 source=00502336#page1.tif source=00502336#page2.tif source=00502336#page3.tif source=00502336#page4.tif	

**JOINT TO CORPORATE
ASSIGNMENT**

WHEREAS, the undersigned,

- | | |
|---|---|
| (1) Osamu OKADA
c/o Renaissance Energy
Research Corporation
102 Advanced Chemical Technology
Center in Kyoto, 105 Jibu-cho,
Fushimi-ku, Kyoto-shi, Kyoto
612-8374 Japan | (2) Nobuaki HANAI
c/o Renaissance Energy
Research Corporation
102 Advanced Chemical Technology
Center in Kyoto, 105 Jibu-cho,
Fushimi-ku, Kyoto-shi, Kyoto
612-8374 Japan |
| (3) Peng YAN
c/o Renaissance Energy
Research Corporation
102 Advanced Chemical Technology
Center in Kyoto, 105 Jibu-cho,
Fushimi-ku, Kyoto-shi, Kyoto
612-8374 Japan | (4) Junya MIYATA
c/o Renaissance Energy
Research Corporation
102 Advanced Chemical Technology
Center in Kyoto, 105 Jibu-cho,
Fushimi-ku, Kyoto-shi, Kyoto
612-8374 Japan |
| (5) Takehiro NAKASUJI
c/o Sumitomo Chemical Company,
Limited
1-98, Kasugade-naka 3-chome,
Konohana-ku, Osaka-shi, Osaka
554-8558 Japan | (6) Hayato SUGIYAMA
c/o Sumitomo Chemical Company,
Limited
1-98, Kasugade-naka 3-chome,
Konohana-ku, Osaka-shi, Osaka
554-8558 Japan |

hereinafter termed "Inventors," have invented certain new and useful improvements in

**FACILITATED CO₂ TRANSPORT MEMBRANE, METHOD FOR PRODUCING SAME, RESIN
COMPOSITION FOR USE IN METHOD FOR PRODUCING SAME, CO₂ SEPARATION
MODULE, AND METHOD AND APPRATUS FOR SEPARATING CO₂**

as described in a U.S. Patent Application herewith; or

a U.S. Patent Application on _____ as _____, which application is a national filing
of an International application identifying the above invention on 24 March 2014 as
PCT/JP2014/058047 (hereinafter termed "applications"); and

WHEREAS, Renaissance Energy Research Corporation, a corporation of Japan, having a
place of business at 102 Advanced Chemical Technology Center in Kyoto, 105 Jibu-cho,
Fushimi-ku, Kyoto-shi, Kyoto 612-8374 Japan (hereinafter termed "Assignee"), is desirous of
acquiring the entire right, title and interest in and to said applications and the invention disclosed
therein, and in and to all embodiments of the invention, heretofore conceived, made or
discovered by said Inventors jointly or severally (all collectively hereinafter termed "said

invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries,

AND

WHEREAS, Sumitomo Chemical Company, Limited, a corporation of Japan, having a place of business at 27-1, Shinkawa 2-chome, Chuo-ku, Tokyo 104-8260 Japan (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said applications and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered by said Inventors jointly or severally (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignees:

1. Said Inventors do hereby jointly and severally sell, assign, transfer and convey unto said Assignees the entire right, title and interest (a) in and to said applications and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignees to enable said Assignees to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignees (a) for perfecting in said Assignees the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignees.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignees, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, jointly and severally, the inventors' respective heirs, legal representatives and assigns.

4. Said Inventors hereby jointly and severally warrant and represent that said inventors have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignees as of the date written below.

Osamu Okada
Osamu OKADA

Date: May 29th, 2015

Nobuaki Hanai
Nobuaki HANAI

Date: May 29th, 2015

Peng YAN
Peng YAN

Date: May 29th, 2015

Junya Miyata
Junya MIYATA

Date: May 27th, 2015

Takehiro NAKASUJI
Takehiro NAKASUJI

Date: _____

Hayato SUGIYAMA
Hayato SUGIYAMA

Date: _____

Attorney Docket No.:

(PUSC0053A7)

4. Said Inventors hereby jointly and severally warrant and represent that said inventors have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignees as of the date written below.

Osamu OKADA

Date: _____

Nobuaki HANAI

Date: _____

Peng YAN

Date: _____

Junya MIYATA

Date: _____

Takehiro Nakasuji
Takehiro NAKASUJI

Date: June 23, 2015

Hayato Sugiyama
Hayato SUGIYAMA

Date: June 26, 2015