505968926 03/16/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6015633

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------------------|----------------|
| SUMITOMO CHEMICAL COMPANY LIMITED | 02/28/2020 |

RECEIVING PARTY DATA

| Name: | RENAISSANCE ENERGY RESEARCH CORPORATION | |
|-------------------|---|--|
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| Internal Address: | 105 JIBU-CHO, FUSHIMI-KU, KYOTO-SHI | |
| City: | КҮОТО | |
| State/Country: | JAPAN | |
| Postal Code: | 612-8374 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|----------------|---------|
| Patent Number: | 9833746 |

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| ATTORNEY DOCKET NUMBER: | RERC 1007-1 | |
|-------------------------|------------------|--|
| NAME OF SUBMITTER: | MARK A. HAYNES | |
| SIGNATURE: | /MARK A. HAYNES/ | |
| DATE SIGNED: | 03/16/2020 | |

Total Attachments: 1

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PATENT 505968926 REEL: 052124 FRAME: 0183

CORPORATE TO CORPORATE ASSIGNMENT

WHEREAS, Renaissance Energy Research Corporation, a corporation of Japan, having a place of business at 102 Advanced Chemical Technical Center in Kyoto, 105 Jibu-Cho, Fushimi-Ku, Kyoto-Shi, Kyoto, Japan 612-8374, AND Sumitomo Chemical Company Limited, a corporation of Japan, having a place of business at 27-1, Shinkawa 2-Chome, Chuo-Ku, Tokyo, Japan 104-8260, are joint owners of the following Letters Patent and the inventions described and set forth therein:

U.S. Patent No. 9,833,746, issued 05 December 2017, entitled: "Facilitated CO2 Transport Membrane, Method For Producing Same, Resin Composition For Use In Method For Producing Same, CO2 Separation Module, And Method And Apparatus For Separating CO2" and having Docket No. RERC 1007-1;

WHEREAS, Sumitomo Chemical Company Limited, hereinafter referred to as "Assignor," is desirous of assigning its share of all right, title and interest in the Letters Patent;

WHEREAS, Renaissance Energy Research Corporation, hereinafter referred to as "Assignee," is desirous of acquiring all right, title and interest in the Letters Patent;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor hereby assigns to Assignee all right, title and interest in and to the Letters Patent, including all rights for recovery for past infringement and all rights to claim priority. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of the Letters Patent, and of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

IN WITNESS WHEREOF, said Assignor has executed and delivered this instrument to said Assignee as of the date written below.

ASSIGNOR: Sumitomo Chemical Company Limited

Name: Toru UEKAWA

Title: General Manager, Intellectual Property Department

Date: February 28, 2020

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PATENT REEL: 052124 FRAME: 0184

RECORDED: 03/16/2020