

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Ashima SAH</td><td>06/21/2008</td></tr><tr><td>Hessel Lennart CASTRICUM</td><td>07/07/2008</td></tr><tr><td>Jaap Ferdinand VENTE</td><td>06/11/2008</td></tr><tr><td>David Hermanus Adrianus BLANK</td><td>08/01/2008</td></tr><tr><td>Johan Evert TEN ELSHOF</td><td>07/31/2008</td></tr></tbody></table>	Name	Execution Date	Ashima SAH	06/21/2008	Hessel Lennart CASTRICUM	07/07/2008	Jaap Ferdinand VENTE	06/11/2008	David Hermanus Adrianus BLANK	08/01/2008	Johan Evert TEN ELSHOF	07/31/2008	
Name	Execution Date												
Ashima SAH	06/21/2008												
Hessel Lennart CASTRICUM	07/07/2008												
Jaap Ferdinand VENTE	06/11/2008												
David Hermanus Adrianus BLANK	08/01/2008												
Johan Evert TEN ELSHOF	07/31/2008												
RECEIVING PARTY DATA													
<table border="1"><tr><td>Name:</td><td>Stichting Energieonderzoek Centrum Nederland</td></tr><tr><td>Street Address:</td><td>Westerduinweg 3</td></tr><tr><td>City:</td><td>Petten</td></tr><tr><td>State/Country:</td><td>NETHERLANDS</td></tr><tr><td>Postal Code:</td><td>NL-1755 LE</td></tr></table>	Name:	Stichting Energieonderzoek Centrum Nederland	Street Address:	Westerduinweg 3	City:	Petten	State/Country:	NETHERLANDS	Postal Code:	NL-1755 LE			
Name:	Stichting Energieonderzoek Centrum Nederland												
Street Address:	Westerduinweg 3												
City:	Petten												
State/Country:	NETHERLANDS												
Postal Code:	NL-1755 LE												
PROPERTY NUMBERS Total: 1													
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12160992</td></tr></tbody></table>	Property Type	Number	Application Number:	12160992									
Property Type	Number												
Application Number:	12160992												
CORRESPONDENCE DATA													
Fax Number: (202)672-5399 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone: 2026725300													
Email: ptomailwashington@foley.com													
Correspondent Name: Foley & Lardner LLP													
Address Line 1: 3000 K Street, N.W.													
Address Line 2: Suite 500													
Address Line 4: Washington, DISTRICT OF COLUMBIA 20007													
ATTORNEY DOCKET NUMBER:	069818-0775												
NAME OF SUBMITTER:	Gilberto M. Villacorta												

OP \$40.00 12160992

500785225

PATENT
REEL: 022280 FRAME: 0402

Total Attachments: 9

source=Assignment#page1.tif

source=Assignment#page2.tif

source=Assignment#page3.tif

source=Assignment#page4.tif

source=Assignment#page5.tif

source=Assignment#page6.tif

source=Assignment#page7.tif

source=Assignment#page8.tif

source=Assignment#page9.tif

PATENT

REEL: 022280 FRAME: 0403

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor (hereinafter referred to as "ASSIGNOR") has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

STICHTING ENERGIEONDERZOEK CENTRUM NEDERLAND

Westerduinweg 3, NL-1755 LE PETTEN, the Netherlands

(hereinafter referred to as "ASSIGNEE") its successors and assigns, the full and exclusive right, title and interest for the United States, its territories and possessions in and to this invention relating to

Microporous molecular separation membrane with high hydrothermal stability

as set forth in this United States Patent Application

Check
one ☐ executed concurrently herewith
☐ executed on _____
☒ Serial No.12/160,992 Filed 07/15/2008
and

as well as in and to (a) all improvements and modifications of the above-identified invention or inventions, (b) the above-identified application and all other applications for Letters Patent of the United States for above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, and declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining

0005867P1 US

and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of **Foley & Lardner LLP** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **Foley & Lardner LLP** do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

NAME AND SIGNATURE OF FIRST INVENTOR

NAME: SAH Ashima

SIGNATURE: *Ashima Sah* DATE: 21-06-08

NAME AND SIGNATURE OF WITNESSES

NAME: UJJAINI SARMA SIGNATURE: *Ujjaini Sarma* DATE: 21/06/08

NAME: K. DATTA SIGNATURE: *Kanjakumari Datta* DATE: 21-06-08

NAME AND SIGNATURE OF SECOND INVENTOR

NAME: CASTRICUM, Hessel Lemari

SIGNATURE: _____ DATE: _____

NAME AND SIGNATURE OF WITNESSES

NAME: _____ SIGNATURE: _____ DATE: _____

NAME: _____ SIGNATURE: _____ DATE: _____

005867PCT/US

NAME AND SIGNATURE OF THIRD INVENTOR

NAME: VENTH, Jaap Ferdinand

SIGNATURE:  DATE: 11/06/08

NAME AND SIGNATURE OF WITNESSES

NAME: _____ SIGNATURE: _____ DATE: _____

NAME: _____ SIGNATURE: _____ DATE: _____

NAME AND SIGNATURE OF FOURTH INVENTOR

NAME: BLANK, David Hermanus Adrianus

SIGNATURE: _____ DATE: _____

NAME AND SIGNATURE OF WITNESSES

NAME: _____ SIGNATURE: _____ DATE: _____

NAME: _____ SIGNATURE: _____ DATE: _____

NAME AND SIGNATURE OF FIFTH INVENTOR

NAME: TEN ELSHOF, Johan Evert

SIGNATURE: _____ DATE: _____

NAME AND SIGNATURE OF WITNESSES

NAME: _____ SIGNATURE: _____ DATE: _____

NAME: _____ SIGNATURE: _____ DATE: _____

Note: *Prima facie* evidence of execution may optionally be obtained by execution before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor (hereinafter referred to as "ASSIGNOR") has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

STICHTING ENERGIEONDERZOEK CENTRUM NEDERLAND

Westerduinweg 3, NL-1755 LE PETTEN, the Netherlands

(hereinafter referred to as "ASSIGNEE") its successors and assigns, the full and exclusive right, title and interest for the United States, its territories and possessions in and to this invention relating to

Microporous molecular separation membrane with high hydrothermal stability

as set forth in this United States Patent Application

Check
one

<input type="checkbox"/>	executed concurrently herewith
<input type="checkbox"/>	executed on _____
<input checked="" type="checkbox"/>	Serial No.12/160,992 Filed 07/15/2008

and

as well as in and to (a) all improvements and modifications of the above-identified invention or inventions, (b) the above-identified application and all other applications for Letters Patent of the United States for above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, and declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining

P6005867PCT/US

and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of **Foley & Lardner LLP** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **Foley & Lardner LLP** do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

NAME AND SIGNATURE OF FIRST INVENTOR

NAME: SAH, Ashima

Sah

SIGNATURE: _____ DATE: _____

NAME AND SIGNATURE OF WITNESSES

NAME: _____ SIGNATURE: _____ DATE: _____

NAME: _____ SIGNATURE: _____ DATE: _____

NAME AND SIGNATURE OF SECOND INVENTOR

NAME: CASTRICUM, Hessel Lennart

castricum

SIGNATURE: *[Signature]* DATE: *7/17/08*

NAME AND SIGNATURE OF WITNESSES

NAME: *Som* SIGNATURE: *[Signature]* DATE: *7/17/08*

NAME: _____ SIGNATURE: _____ DATE: _____

P6005867PCT/US

NAME AND SIGNATURE OF THIRD INVENTOR

NAME: VENTE, Jaap Ferdinand

SIGNATURE: 

DATE: 11/6/08

NAME AND SIGNATURE OF WITNESSES

NAME: de Boer, Robert

SIGNATURE: 

DATE: 11-6-08

NAME: _____

SIGNATURE: _____

DATE: _____

NAME AND SIGNATURE OF FOURTH INVENTOR

NAME: BLANK, David Hermanus Adrianus

SIGNATURE: _____

DATE: _____

NAME AND SIGNATURE OF WITNESSES

NAME: _____

SIGNATURE: _____

DATE: _____

NAME: _____

SIGNATURE: _____

DATE: _____

NAME AND SIGNATURE OF FIFTH INVENTOR

NAME: TEN ELSHOF, Johan Evert

SIGNATURE: _____

DATE: _____

NAME AND SIGNATURE OF WITNESSES

NAME: _____

SIGNATURE: _____

DATE: _____

NAME: _____

SIGNATURE: _____

DATE: _____

Note: *Prima facie* evidence of execution may optionally be obtained by execution before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor (hereinafter referred to as "ASSIGNOR") has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

STICHTING ENERGIEONDERZOEK CENTRUM NEDERLAND

Westerduinweg 3, NL-1755 LE PETTEN, the Netherlands

(hereinafter referred to as "ASSIGNEE") its successors and assigns, the full and exclusive right, title and interest for the United States, its territories and possessions in and to this invention relating to

Microporous molecular separation membrane with high hydrothermal stability

as set forth in this United States Patent Application

Check
one

- ☐ executed concurrently herewith
☐ executed on _____
☒ Serial No.12/160,992 Filed 07/15/2008
and

as well as in and to (a) all improvements and modifications of the above-identified invention or inventions, (b) the above-identified application and all other applications for Letters Patent of the United States for above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the International Convention and any other international agreement to which the United States adheres; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, and declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining

0005867PCT/US

and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of **Foley & Lardner LLP** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **Foley & Lardner LLP** do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

NAME AND SIGNATURE OF FIRST INVENTOR

NAME: *S.h.* SATH Ashima

SIGNATURE: *Ashima Sah* DATE: *21-06-08*

NAME AND SIGNATURE OF WITNESSES

NAME: *UJJAINI SARMA* SIGNATURE: *Ujjaini Sarma* DATE: *21/06/08*

NAME: *K. DATTA* SIGNATURE: *Kanyakumari Datta* DATE: *21-06-08*

NAME AND SIGNATURE OF SECOND INVENTOR

NAME: *C. S. Kumar* CASTRUM M. Hessel Lemert

SIGNATURE: _____ DATE: _____

NAME AND SIGNATURE OF WITNESSES

NAME: _____ SIGNATURE: _____ DATE: _____

NAME: _____ SIGNATURE: _____ DATE: _____

P6005867PCT/US

NAME AND SIGNATURE OF THIRD INVENTOR

NAME: VENTE, Jaap Ferdinand

SIGNATURE:  DATE: 11/6/08

NAME AND SIGNATURE OF WITNESSES

NAME: de Boer, Robert SIGNATURE:  DATE: 11-6-08

NAME: _____ SIGNATURE: _____ DATE: _____

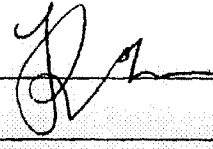
NAME AND SIGNATURE OF FOURTH INVENTOR

NAME: BLANK, David Hermanus Adrianus

Blank

SIGNATURE:  DATE: _____

NAME AND SIGNATURE OF WITNESSES

NAME: Rietmann JM SIGNATURE:  DATE: 12 aug '08

NAME: _____ SIGNATURE: _____ DATE: _____

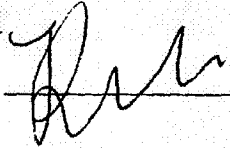
NAME AND SIGNATURE OF FIFTH INVENTOR

NAME: TEN ELSHOF, Johan Evert

ten Elshof

SIGNATURE:  DATE: 31/07/08

NAME AND SIGNATURE OF WITNESSES

NAME: Rietmann JM SIGNATURE:  DATE: 31 jul 08

NAME: _____ SIGNATURE: _____ DATE: _____

Note: *Prima facie* evidence of execution may optionally be obtained by execution before a U.S. Consul or before a local officer authorized to administer oaths whose authority is proved by a certificate from a U.S. Consul.