

PATENT ASSIGNMENT

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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>Hiroki Hisamori</td> <td>09/05/2012</td> </tr> <tr> <td>Tatsuya Hayashi</td> <td>09/05/2012</td> </tr> <tr> <td>Seiji Morihashi</td> <td>09/06/2012</td> </tr> <tr> <td>Tomonori Kanougi</td> <td>08/31/2012</td> </tr> </tbody> </table>	Name	Execution Date	Hiroki Hisamori	09/05/2012	Tatsuya Hayashi	09/05/2012	Seiji Morihashi	09/06/2012	Tomonori Kanougi	08/31/2012	
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RECEIVING PARTY DATA											
Name:	Ube Industries, Ltd.										
Street Address:	1978-96, Oaza Kogushi, Yamaguchi										
City:	Ube-shi										
State/Country:	JAPAN										
Postal Code:	755-8633										
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>13638087</td> </tr> </tbody> </table>	Property Type	Number	Application Number:	13638087							
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CORRESPONDENCE DATA											
Fax Number:	9499760950										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	8587074221										
Email:	efiling@Knobbe.com										
Correspondent Name:	Neil S. Bartfeld										
Address Line 1:	2040 Main Street										
Address Line 2:	14th Floor										
Address Line 4:	Irvine, CALIFORNIA 92614										
ATTORNEY DOCKET NUMBER:	KITO59.046APC										
NAME OF SUBMITTER:	Neil S. Bartfeld										
Total Attachments: 2 source=KITO59046APC_assign#page1.tif source=KITO59046APC_assign#page2.tif											

CH \$40.00 13638087

ASSIGNMENT

WHEREAS, I/WE (1) Hiroki HISAMORI

a Japanese citizen, residing at c/o UBE INDUSTRIES, LTD.,
1978-96, Oaza Kogushi, Ube-shi, Yamaguchi 755-8633, Japan

(2) Tatsuya HAYASHI

a Japanese citizen, residing at c/o UBE INDUSTRIES, LTD.,
1978-96, Oaza Kogushi, Ube-shi, Yamaguchi 755-8633, Japan

(3) Seiji MORIHASHI

a Japanese citizen, residing at c/o UBE INDUSTRIES, LTD.,
1978-96, Oaza Kogushi, Ube-shi, Yamaguchi 755-8633, Japan

(4) Tomonori KANOUGI

a Japanese citizen, residing at c/o UBE INDUSTRIES, LTD.,
8-1, Goi-Minamikaigan, Ichihara-shi, Chiba 290-0045, Japan

hereinafter referred to as Assignor (collectively if more than one inventor is listed above), have invented certain new and useful improvements in

ASYMMETRIC HOLLOW FIBER GAS SEPARATION MEMBRANE

the specification of which:

- (a) ☐ was executed on even date herewith;
- (b) ☐ was filed on _____ as Application No. _____
or Express Mail No. _____, as Application No. not yet known
and was amended on _____ (if applicable); or
- (c) ☒ was described and claimed in PCT International Application No. PCT/JP2011/058053 filed on
March 30, 2011 and as amended under PCT Article 19 on
_____ (if any) and/or under PCT Article 34 on
_____ (if any).

AND WHEREAS, UBE INDUSTRIES, LTD.

with its principal place of business at 1978-96, Oaza Kogushi, Ube-shi, Yamaguchi 755-8633, Japan
(hereinafter referred to as Assignee) desires to acquire the entire right, title, and interest in and to the said improvements with respect to the United States of America, its territories and possessions.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby acknowledges that it has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and

assigns, the entire right, title, and interest in the United States of America, and its territories and possessions in, to and under said improvements, and any Patent Applications in the United States of America and all divisions, renewals and continuations thereof, and all Patents of the United States of America which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions; and Assignor hereby authorizes and requests the Commissioner of Patents of the United States of America to issue all Patents for said improvements to Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR HEREBY covenants and agrees that it will communicate to Assignee, its successors, legal representatives and assigns, any facts known to it respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in the United States of America.

IN TESTIMONY WHEREOF, Assignor intending to be legally bound has hereunto affixed its signature.

This 5 day of September, 2012

Hiroki Hisamori
Signature of Hiroki HISAMORI

This 5 day of September, 2012

Tatsuya Hayashi
Signature of Tatsuya HAYASHI

This 6 day of September, 2012

Seiji Morihashi
Signature of Seiji MORIHASHI

This 31 day of August, 2012

Tomonori Kanougi
Signature of Tomonori KANOUGI

Witnessed by:

Toshio Yamamoto