

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4618266

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JIA MIN CHIN	09/26/2017
JIN YANG	05/05/2017
HAN YANG TAN	05/04/2017
YIN NGAI SUM	05/12/2017
SIOK WEI TAY	05/03/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH
<b>Street Address:</b>	1 FUSIONOPOLIS WAY, #20-10 CONNEXIS
<b>City:</b>	SINGAPORE
<b>State/Country:</b>	SINGAPORE
<b>Postal Code:</b>	138632
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15305336
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(408)720-8383
<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>	
<b>Phone:</b>	(408) 720-8300
<b>Email:</b>	CHRIS_MARSHALL@BSTZ.COM
<b>Correspondent Name:</b>	BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
<b>Address Line 1:</b>	1279 OAKMEAD PARKWAY
<b>Address Line 4:</b>	SUNNYVALE, CALIFORNIA 94085
<b>ATTORNEY DOCKET NUMBER:</b>	8948P097
<b>NAME OF SUBMITTER:</b>	LESTER J. VINCENT
<b>SIGNATURE:</b>	/LESTER J. VINCENT/
<b>DATE SIGNED:</b>	09/28/2017
<b>Total Attachments: 10</b>	
source=8948P097_Assignment#page1.tif	

source=8948P097\_Assignment#page2.tif  
source=8948P097\_Assignment#page3.tif  
source=8948P097\_Assignment#page4.tif  
source=8948P097\_Assignment#page5.tif  
source=8948P097\_Assignment#page6.tif  
source=8948P097\_Assignment#page7.tif  
source=8948P097\_Assignment#page8.tif  
source=8948P097\_Assignment#page9.tif  
source=8948P097\_Assignment#page10.tif

**ASSIGNMENT OF PATENT APPLICATION**

Attorney Docket No.: 8848P097

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned, Jia Min CHIN, Jin YANG, Han Yang TAN, Yin Ngai SUM, and Sioh Wei TAY

hereby sell, assign, and transfer to Agency for Science, Technology and Research

a agency of SINGAPORE  
(Type of Assignee: e.g., corporation, company, partnership, university, etc.)

having a principal place of business at

1 Fusionopolis Way, #20-10, Connexis, Singapore, 138632 SINGAPORE

("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled METHOD FOR REGENERATING A USED SORBENT HAVING A GAS ADSORBATE ADSORBED THERETO

said patent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number 15/305,336 filed October 19, 2016

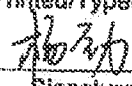
and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or

representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

_____, 20____ Date	_____ Signature
	Jia Min CHIN Printed/Typed Name
May 5, 2017 Date	 Signature
	Jin YANG Printed/Typed Name
_____, 20____ Date	_____ Signature
	Han Yang TAN Printed/Typed Name
_____, 20____ Date	_____ Signature
	Yin Ngai SUM Printed/Typed Name
_____, 20____ Date	_____ Signature
	Slok Wei TAY Printed/Typed Name

Assignment Document Return Address:  
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP  
1279 Oakmead Parkway  
Sunnyvale, CA 94085-4040  
(408) 720-6300

**ASSIGNMENT OF PATENT APPLICATION**

Attorney Docket No.: 8948P097

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned, Jia Min CHIN, Jin YANG, Han Yang TAN, Yin Ngai SUM, and Siok Wei TAY

hereby sell, assign, and transfer to Agency for Science, Technology and Research

a agency of SINGAPORE  
(Type of Assignee: e.g., corporation, company, partnership, university, etc.)

having a principal place of business at \_\_\_\_\_

1 Fusionopolis Way, #20-10, Connexis, Singapore, 138632 SINGAPORE

("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled METHOD FOR REGENERATING A USED SORBENT HAVING A GAS ADSORBATE ADSORBED THERETO

said patent application also identified as follows (when known):

(I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.)

United States Patent Application Number 15/305,336 filed October 19, 2016

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or

representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

\_\_\_\_\_, 20\_\_\_\_  
Date Signature

\_\_\_\_\_  
Jia Min CHIN  
Printed/Typed Name

\_\_\_\_\_, 20\_\_\_\_  
Date Signature

\_\_\_\_\_  
Jin YANG  
Printed/Typed Name

4<sup>th</sup> May, 2017  
Date Signature

\_\_\_\_\_  
Han Yang TAN  
Printed/Typed Name

\_\_\_\_\_, 20\_\_\_\_  
Date Signature

\_\_\_\_\_  
Yin Ngai SUM  
Printed/Typed Name

\_\_\_\_\_, 20\_\_\_\_  
Date Signature

\_\_\_\_\_  
Siok Wei TAY  
Printed/Typed Name

Assignment Document Return Address:  
BLAKELY, SONKLOFF, TAYLOR & ZAFMAN LLP  
1275 Calamand Parkway  
Sunnyvale, CA 94085-4040  
(408) 720-8300

**ASSIGNMENT OF PATENT APPLICATION**

Attorney Docket No.: 8848P097

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned, Jia Min CHIN, Jin YANG, Han Yang TAN, Yin Ngai SUM, and Siok Wei TAY

hereby sell, assign, and transfer to Agency for Science, Technology and Research

a agency of SINGAPORE  
(Type of Assignee: e.g., corporation, company, partnership, university, etc.)

having a principal place of business at \_\_\_\_\_

1 Fusionopolis Way, #20-10, Connexis, Singapore, 138632 SINGAPORE

("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled METHOD FOR REGENERATING A USED SORBENT HAVING A GAS ADSORBATE ADSORBED THERETO

said patent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number 15/305,336 filed October 19, 2016

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or

representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

\_\_\_\_\_, 20\_\_\_\_  
Date Signature

\_\_\_\_\_  
Jia Min CHIN  
Printed/Typed Name

\_\_\_\_\_, 20\_\_\_\_  
Date Signature

\_\_\_\_\_  
Jin YANG  
Printed/Typed Name

\_\_\_\_\_, 20\_\_\_\_  
Date Signature

\_\_\_\_\_  
Han Yang TAN  
Printed/Typed Name

12 MAY, 2017  
Date Signature

\_\_\_\_\_  
Yin Ngai SUM  
Printed/Typed Name

\_\_\_\_\_, 20\_\_\_\_  
Date Signature

\_\_\_\_\_  
Siok Wei TAY  
Printed/Typed Name

Assignment Document Return Address:  
BLAKELY, BOKOLOFF, TAYLOR & ZAFMAN LLP  
1279 Oakmead Parkway  
Sunnyvale, CA 94085-4040  
(408) 720-8300



**ASSIGNMENT OF PATENT APPLICATION**

Attorney Docket No.: 8948P097

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned, Jia Min CHIN, Jin YANG, Han Yang TAN, Yin Ngai SUM, and Siok Wei TAY

hereby sell, assign, and transfer to Agency for Science, Technology and Research

a agency of SINGAPORE  
(Type of Assignee: e.g., corporation, company, partnership, university, etc.)

having a principal place of business at \_\_\_\_\_

1 Fusionopolis Way, #20-10, Connexis, Singapore, 138632 SINGAPORE

("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled METHOD FOR REGENERATING A USED SORBENT HAVING A GAS ADSORBATE ADSORBED THERETO

said patent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number 15/305,336 filed October 19, 2016

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or

representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

\_\_\_\_\_, 20\_\_\_\_  
Date Signature

\_\_\_\_\_  
Jia Min CHIN  
Printed/Typed Name

\_\_\_\_\_, 20\_\_\_\_  
Date Signature

\_\_\_\_\_  
Jin YANG  
Printed/Typed Name

\_\_\_\_\_, 20\_\_\_\_  
Date Signature

\_\_\_\_\_  
Han Yang TAN  
Printed/Typed Name

\_\_\_\_\_, 20\_\_\_\_  
Date Signature

\_\_\_\_\_  
Yin Ngai SUM  
Printed/Typed Name

3/5, 2017  
Date Signature

\_\_\_\_\_  
Slok Wei TAY  
Printed/Typed Name

Assignment Document Return Address:  
BLAKELY, SOLOLOFF, TAYLOR & ZAFMAN LLP  
1279 Oakmead Parkway  
Sunnyvale, CA 94085-4040  
(408) 720-8300

**ASSIGNMENT OF PATENT APPLICATION**

Attorney Docket No.: 8948P097

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, the undersigned, Jia Min CHIN, Jin YANG, Han Yang TAN, Yin Ngai SUM, and Siok Wei TAY

hereby sell, assign, and transfer to Agency for Science, Technology and Research

a agency of SINGAPORE

(Type of Assignee: e.g., corporation, company, partnership, university, etc.)

having a principal place of business at \_\_\_\_\_

1 Fusionopolis Way, #20-10, Connexis, Singapore, 138632 SINGAPORE

("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled METHOD FOR REGENERATING A USED SORBENT HAVING A GAS ADSORBATE ADSORBED THERETO

said patent application also identified as follows (when known):

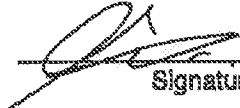
[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number 15/305,336 filed October 19, 2016

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

<u>26 September</u> , 20 <u>17</u>	
Date	Signature
	<u>Jia Min CHIN</u>
	Printed/Typed Name
<u>          </u> , 20 <u>      </u>	<u>                                </u>
Date	Signature
	<u>Jin YANG</u>
	Printed/Typed Name
<u>          </u> , 20 <u>      </u>	<u>                                </u>
Date	Signature
	<u>Han Yang TAN</u>
	Printed/Typed Name
<u>          </u> , 20 <u>      </u>	<u>                                </u>
Date	Signature
	<u>Yin Ngai SUM</u>
	Printed/Typed Name
<u>          </u> , 20 <u>      </u>	<u>                                </u>
Date	Signature
	<u>Slok Wei TAY</u>
	Printed/Typed Name

Assignment Document Return Address:  
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP  
1279 Oakmead Parkway  
Sunnyvale, CA 94085-4040  
(408) 720-6900