

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
B. Peter McGrail	04/19/2011
Praveen K. Thallapally	04/19/2011
Wu Xu	04/19/2011
RECEIVING PARTY DATA	
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City:	Richland
State/Country:	WASHINGTON
Postal Code:	99352
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	13078548
PCT Number:	US1130960
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NAME OF SUBMITTER:	Robert C. Hyta
Total Attachments: 5	

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**PATENT
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ASSIGNMENT

PARTIES TO THE ASSIGNMENT:

INVENTORS:

B. Peter McGrail
Praveen K. Thallapally
Wu Xu

ASSIGNEE:

Battelle Memorial Institute
902 Battelle Boulevard
P.O. Box 999
Richland, WA 99352
United States

BACKGROUND OF THIS ASSIGNMENT:

Inventors have conceived certain new and useful inventions disclosed in a United States patent application titled "Methods for Associating or Dissociating Guest Materials with a Metal Organic Framework, Systems for Associating or Dissociating Guest Materials Within a Series of Metal Organic Frameworks, and Gas Separation Assemblies" United States Patent Application No. 13/078,548 filed April 1, 2011, and PCT Application Serial No. PCT/US2011/030960 filed April 1, 2011.

Battelle Memorial Institute (hereinafter referred to as "ASSIGNEE") desires to acquire the entire right, title and interest in said inventions and

with respect to any Letters Patent that may be granted with respect to the inventions in both the United States and in all foreign countries.

THE PARTIES AGREE AS FOLLOWS:

In consideration of good and valuable consideration, the receipt, sufficiency and adequacy of which is hereby acknowledged, INVENTORS have sold, assigned and transferred, and by these present do hereby sell, assign and transfer to ASSIGNEE the entire right, title and interest in the above-identified inventions and application and to any reissues, renewals, divisions or continuations of the application thereof, and hereby authorizes the Commissioner of Patents and Trademarks to issue such Letters Patent to ASSIGNEE for the sole use of ASSIGNEE, its successors or assigns.

INVENTORS further agree to execute, at the request and expense of ASSIGNEE, such other formal documents as may be required to fully convey the interest transferred herein and will similarly execute any patent application papers (foreign or domestic) required for the filing of any divisional, continuation, renewal or reissue of the patent application or resulting Letters Patent; and will generally do everything necessary or desirable to obtain and enforce proper protection for the inventions assigned hereby.

INVENTORS further assign to ASSIGNEE the whole right, title and interest in the inventions disclosed in the application throughout all countries foreign to the United States. ASSIGNEE is hereby authorized to apply for patents relating to the inventions in its own name in countries

where such procedure is proper; to claim the benefit of the International Convention; to file and prosecute International Applications relating to the inventions under the Patent Cooperation Treaty; and to file and prosecute applications relating to the inventions under the European Patent Convention. INVENTORS agree to execute applications relating to the inventions in those countries and under those conventions where it is necessary that the same be executed by the inventor, and to execute assignments of such applications and the resulting Letters Patent to ASSIGNEE as well as all other necessary papers in relation to such applications and Letters Patent. INVENTORS hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country as proof of the right of ASSIGNEE to apply for patent and other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

To be binding on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

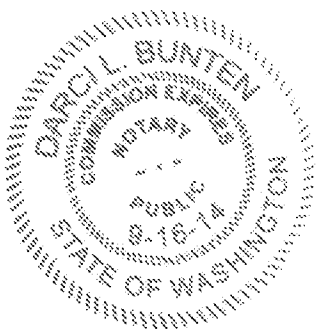
Signed at Richland WA, on April 19, 2010
[city] [state]
B. Peter McGrail
B. Peter McGrail

State of Washington)
County of Benton) ss.

On April 19, 2010, before me, a Notary Public, personally appeared B. Peter McGrail, who is known to me to be the person

whose name is subscribed within the foregoing Assignment, who executed the Assignment and acknowledged such execution to be voluntary and for the purposes set forth therein.

SEAL



Darcy L. Bunter
Notary for the State of Washington
residing at Pasco, WA
[City]
Commission Expires: 9/16/14

Signed at Richland [city] WA [state], on 19th April, 20 11

Praveen K. Thallapally

State of Washington)
County of Benton) ss.

On April 19, 20 11, before me, a Notary Public, personally appeared Praveen K. Thallapally, who is known to me to be the person whose name is subscribed within the foregoing Assignment, who executed the Assignment and acknowledged such execution to be voluntary and for the purposes set forth therein.

SEAL



Darcy L. Bunter
Notary for the State of Washington
residing at Pasco, WA
[City]
Commission Expires: 9/16/14

Signed at Richland WA, on April 19, 2011
[city] [state]

Wu Xu
Wu Xu

State of Washington)
County of Benton) ss.

On April 19, 2011, before me, a Notary Public, personally appeared Wu Xu, who is known to me to be the person whose name is subscribed within the foregoing Assignment, who executed the Assignment and acknowledged such execution to be voluntary and for the purposes set forth therein.

Darcil K. Bunter
Notary for the State of Washington
residing at Issaquah, WA
[City]
Commission Expires: 9/16/14

SEAL

