

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>Christopher E. Wilmer</td> <td>08/14/2012</td> </tr> <tr> <td>Michael Leaf</td> <td>08/01/2012</td> </tr> <tr> <td>Joseph T. Hupp</td> <td>07/16/2012</td> </tr> <tr> <td>Omar K. Farha</td> <td>07/16/2012</td> </tr> <tr> <td>Randall Q. Snurr</td> <td>08/06/2012</td> </tr> </tbody> </table>		Name	Execution Date	Christopher E. Wilmer	08/14/2012	Michael Leaf	08/01/2012	Joseph T. Hupp	07/16/2012	Omar K. Farha	07/16/2012	Randall Q. Snurr	08/06/2012
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>Northwestern University</td> </tr> <tr> <td>Street Address:</td> <td>633 Clark Street</td> </tr> <tr> <td>City:</td> <td>Evanston</td> </tr> <tr> <td>State/Country:</td> <td>ILLINOIS</td> </tr> <tr> <td>Postal Code:</td> <td>60208</td> </tr> </table>		Name:	Northwestern University	Street Address:	633 Clark Street	City:	Evanston	State/Country:	ILLINOIS	Postal Code:	60208		
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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
<p>Fax Number: 3145844080 Phone: 3145844080 Email: docket@splglaw.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: The Small Patent Law Group LLC Address Line 1: 225 S. Meramec Ave. Address Line 2: Suite 725 Address Line 4: St Louis, MISSOURI 63105</p>													
ATTORNEY DOCKET NUMBER:	2011-079-04(316-14US1)												
NAME OF SUBMITTER:	Christopher R. Carroll												

OP \$40.00 13543189

Total Attachments: 4

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PATENT

REEL: 028790 FRAME: 0744

ASSIGNMENT

WHEREAS, WE, Christopher E. Wilmer, Michael Leaf, Randall Q. Snurr, Omar K. Farha, and Joseph T. Hupp, hereinafter referred to as "ASSIGNORS," have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Patent Application: *System and Method for Generating and/or Screening Potential Metal-Organic Frameworks*
Filing Date: July 6, 2012 Serial No.: 13/543,189

WHEREAS, Northwestern University, an Illinois not-for-profit corporation, having a place of business at 633 Clark Street, Evanston, Illinois 60208, hereinafter referred to as "ASSIGNEE," is desirous of acquiring the entire right, title and interest in said invention and application and in any Letters Patent which may be granted on the same;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNORS have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE's successors and assigns, all right, title and interest in and to said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world, including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, or prolongations or extensions thereof, said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been held and enjoyed by said ASSIGNORS had this assignment and transfer not been made, to the full extent and term of any Letters Patent.

ASSIGNORS further agree that ASSIGNORS will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the prosecution of said application and/or applications; execute, verify, acknowledge, and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof; and perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said ASSIGNEE, or ASSIGNEE's successors and assigns.

IN TESTIMONY WHEREOF, ASSIGNORS have hereunto signed ASSIGNORS' names to this Assignment on the date indicated below.

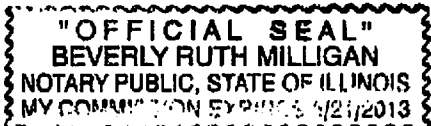
_____ Christopher E. Wilmer	_____ DATE
<i>Michael Leaf</i>	<i>8/1/12</i>
_____ Michael Leaf	_____ DATE

_____ Joseph T. Hupp	_____ DATE
_____ Randall Q. Snurr	_____ DATE

Omar K. Farha DATE

STATE OF *Illinois*
COUNTY OF *Cook*) ss.

On this 1st day of August, in the year of 2012 before me, the undersigned Notary Public or Witness, personally appeared the above-named ASSIGNOR OR ASSIGNORS, known to me (or proven to me on the basis of satisfactory evidence) to be the person(s) whose names are/is subscribed to the within instrument, and acknowledged that he/she/they executed the same.

SEAL  *Beverly Ruth Milligan*
NOTARY PUBLIC
MY COMMISSION EXPIRES: 5/21/2013

ASSIGNMENT

WHEREAS, WE, Christopher E. Wilmer, Michael Leaf, Randall Q. Snurr, Omar K. Farha, and Joseph T. Hupp, hereinafter referred to as "ASSIGNORS," have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

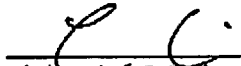
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IN TESTIMONY WHEREOF, ASSIGNORS have hereunto signed ASSIGNORS' names to this Assignment on the date indicated below.


 _____ Christopher E. Wilmer	DATE	<u>Aug. 14, 2012.</u> _____ Joseph T. Hupp	DATE
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_____ Michael Leaf	DATE	_____ Randall Q. Snurr	DATE
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_____ Omar K. Farha	DATE
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STATE OF Illinois)
COUNTY OF Cook) ss.

On this 14th day of August, in the year of 2012 before me, the undersigned Notary Public or Witness, personally appeared the above-named ASSIGNOR OR ASSIGNORS, known to me (or proven to me on the basis of satisfactory evidence) to be the person(s) whose names are/is subscribed to the within instrument, and acknowledged that he/she/they executed the same.



NOTARY PUBLIC
MY COMMISSION EXPIRES: 5/21/2013



ASSIGNMENT

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IN TESTIMONY WHEREOF, ASSIGNORS have hereunto signed ASSIGNORS' names to this Assignment on the date indicated below.

Christopher E. Wilmer

DATE

Joseph T. Hupp
Joseph T. Hupp

7-16-2012
DATE

Michael Leaf

DATE

Randall Q. Snurr

DATE

Omar K. Farha
Omar K. Farha

7/16/2012
DATE

STATE OF _____)
COUNTY OF _____) ss.

On this 16 day of JULY, in the year of 2012 before me, the undersigned Notary Public or Witness, personally appeared the above-named ASSIGNOR OR ASSIGNORS, known to me (or proven to me on the basis of satisfactory evidence) to be the person(s) whose names are/is subscribed to the within instrument, and acknowledged that he/she/they executed the same.



Ann L. Wheatley-Beamon
NOTARY PUBLIC
MY COMMISSION EXPIRES: 1-21-2014

PATENT

REEL: 028790 FRAME: 0747

ASSIGNMENT

WHEREAS, WE, Christopher E. Wilmer, Michael Leaf, Randall Q. Snurr, Omar K. Farha, and Joseph T. Hupp, hereinafter referred to as "ASSIGNORS," have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

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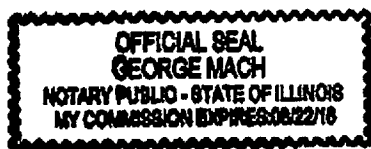
Randall Q. Snurr DATE

Omar K. Farha DATE

STATE OF *Illinois*)
COUNTY OF *Cook*) ss.

On this 6th day of August, in the year of 2012 before me, the undersigned Notary Public or Witness, personally appeared the above-named ASSIGNOR OR ASSIGNORS, known to me (or proven to me on the basis of satisfactory evidence) to be the person(s) whose names are/is subscribed to the within instrument, and acknowledged that he/she/they executed the same.

SEAL



NOTARY PUBLIC

MY COMMISSION EXPIRES: 8/22/16

PATENT