

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>Lun Han</td> <td>09/10/2012</td> </tr> <tr> <td>Rathna P. Davuluri</td> <td>09/14/2012</td> </tr> <tr> <td>Christopher G. Smalley</td> <td>09/12/2012</td> </tr> <tr> <td>Mark P. Hagemeister</td> <td>09/20/2012</td> </tr> <tr> <td>Masaaki Sugita</td> <td>09/12/2012</td> </tr> <tr> <td>Joseph S. Famolaro</td> <td>09/12/2012</td> </tr> <tr> <td>Robert G. Tinger</td> <td>09/19/2012</td> </tr> </tbody> </table>		Name	Execution Date	Lun Han	09/10/2012	Rathna P. Davuluri	09/14/2012	Christopher G. Smalley	09/12/2012	Mark P. Hagemeister	09/20/2012	Masaaki Sugita	09/12/2012	Joseph S. Famolaro	09/12/2012	Robert G. Tinger	09/19/2012
Name	Execution Date																
Lun Han	09/10/2012																
Rathna P. Davuluri	09/14/2012																
Christopher G. Smalley	09/12/2012																
Mark P. Hagemeister	09/20/2012																
Masaaki Sugita	09/12/2012																
Joseph S. Famolaro	09/12/2012																
Robert G. Tinger	09/19/2012																
RECEIVING PARTY DATA																	
Name:	ExxonMobil Chemical Patents Inc.																
Street Address:	13501 Katy Freeway																
City:	Houston																
State/Country:	TEXAS																
Postal Code:	77079																
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>13557605</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13557605												
Property Type	Number																
Application Number:	13557605																
CORRESPONDENCE DATA																	
Fax Number:	2818341231																
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																	
Phone:	281-834-1886																
Email:	jennifer.s.lewis@exxonmobil.com																
Correspondent Name:	EXXONMOBIL CHEMICAL COMPANY																
Address Line 1:	5200 BAYWAY DRIVE																
Address Line 2:	P.O. BOX 2149																
Address Line 4:	BAYTOWN, TEXAS 77522-2149																
ATTORNEY DOCKET NUMBER:	2011EM202/2																

CH \$40.00 13557605

NAME OF SUBMITTER:

Andrew B. Griffis

Total Attachments: 9

source=2011EM202-2-Executed-Assignments#page1.tif

source=2011EM202-2-Executed-Assignments#page2.tif

source=2011EM202-2-Executed-Assignments#page3.tif

source=2011EM202-2-Executed-Assignments#page4.tif

source=2011EM202-2-Executed-Assignments#page5.tif

source=2011EM202-2-Executed-Assignments#page6.tif

source=2011EM202-2-Executed-Assignments#page7.tif

source=2011EM202-2-Executed-Assignments#page8.tif

source=2011EM202-2-Executed-Assignments#page9.tif

ASSIGNMENT**INVENTOR(S):**

Lu Han	Rathna P. Davuluri
Christopher G. Smalley	Mark P. Hagemeister
Masaaki Sugita	Joseph S. Famolaro
Robert G. Tinger	

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of and/or promise of payment which is hereby acknowledged, the undersigned person(s) named above, herein referred to as UNDERSIGNED, hereby agree(s) as follows:

- 1) UNDERSIGNED hereby assign(s) to ExxonMobil Chemical Patents Inc., a corporation of Delaware, its successors, legal representatives and assigns, herein referred to collectively as ASSIGNEE, the entire right, title and interest, for the United States and all foreign countries, in and to UNDERSIGNED'S invention or improvement and to all patent applications and patents covering same which is described in a patent application entitled:

“Fluid Bed Reactor with Staged Baffles”

and being further identified as USSN Application No.: 13/557,605; Atty. Docket No. 2011EM202/2, filed July 25, 2012, and all rights of priority created by said application under provisions of international conventions or treaties.

- 2) UNDERSIGNED agree(s) upon the request of ASSIGNEE to execute any and all applications for and documents relating to obtaining patents and the prosecution thereof for said invention or improvement, and any continuations of such applications or substitutes therefore or registrations thereof, and any specific separate assignments of any of the above required for recording in the United States Patent and Trademark Office and any foreign patent office that ASSIGNEE may deem necessary or expedient.
- 3) UNDERSIGNED agree(s) that in the event of any application based on said assigned invention or improvement, or patent issued thereon, or any reissue or application for the reissue thereof, becoming involved in priority of invention proceedings, UNDERSIGNED will cooperate with ASSIGNEE to the best of the ability of UNDERSIGNED in the matter of preparing and executing all documents and giving and producing evidence in support thereof.
- 4) UNDERSIGNED agree(s) to perform upon ASSIGNEE'S request any and all affirmative acts to obtain United States and foreign patents covering said invention or improvement and to vest all rights therein hereby conveyed to ASSIGNEE, as fully and as entirely as the same would have been held and enjoyed by UNDERSIGNED if this assignment and sale had not been made.
- 5) UNDERSIGNED hereby authorize(s) ASSIGNEE'S attorney to insert at paragraph 1, in this instrument the date on which the above-referenced patent application was filed, as well as the application number thereof when known.

ASSIGNMENT (Cont'd.)

IN WITNESS WHEREOF, this assignment has been executed by UNDERSIGNED on the date opposite UNDERSIGNED'S NAME.

DATE Sep. 10, 2012

[Signature]
Lu Han

Chad Mondor
Witness (Print Name)

[Signature]
Witness (Signature)

DATE SEP 14, 2012

[Signature]
Rathna P. Davuluri

DAISY CHEN
Witness (Print Name)

[Signature]
Witness (Signature)

DATE Sept 12, 2012

[Signature]
Christopher G. Smalley

Timothy M. Healy
Witness (Print Name)

[Signature]
Witness (Signature)

DATE _____

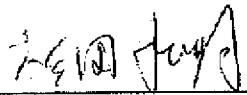
Mark P. Hagemeister

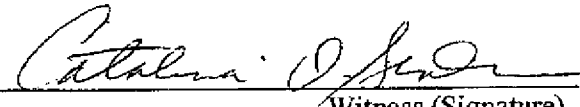
Witness (Print Name)


Witness (Signature)


ASSIGNMENT (Cont'd.)

IN WITNESS WHEREOF, this assignment has been executed by UNDERSIGNED on the date opposite UNDERSIGNED'S NAME.

DATE Sep. 12. 2012 
Masaaki Sugita

CATALINA O. SENDRA 
Witness (Print Name) Witness (Signature)

DATE 9/12/2012 
Joseph S. Famolaro

John S Coleman 
Witness (Print Name) Witness (Signature)

DATE _____
Robert G. Tinger

Witness (Print Name) Witness (Signature)

ASSIGNMENT

INVENTOR(S):

Lu Han	Rathna P. Davuluri
Christopher G. Smalley	Mark P. Hagemeister
Masaaki Sugita	Joseph S. Famolaro
Robert G. Tinger	

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of and/or promise of payment which is hereby acknowledged, the undersigned person(s) named above, herein referred to as UNDERSIGNED, hereby agree(s) as follows:

- 1) UNDERSIGNED hereby assign(s) to ExxonMobil Chemical Patents Inc., a corporation of Delaware, its successors, legal representatives and assigns, herein referred to collectively as ASSIGNEE, the entire right, title and interest, for the United States and all foreign countries, in and to UNDERSIGNED'S invention or improvement and to all patent applications and patents covering same which is described in a patent application entitled:

“Fluid Bed Reactor with Staged Baffles”

and being further identified as USSN Application No.: 13/557,605; Atty. Docket No. 2011EM202/2, filed July 25, 2012, and all rights of priority created by said application under provisions of international conventions or treaties.

- 2) UNDERSIGNED agree(s) upon the request of ASSIGNEE to execute any and all applications for and documents relating to obtaining patents and the prosecution thereof for said invention or improvement, and any continuations of such applications or substitutes therefore or registrations thereof, and any specific separate assignments of any of the above required for recording in the United States Patent and Trademark Office and any foreign patent office that ASSIGNEE may deem necessary or expedient.
- 3) UNDERSIGNED agree(s) that in the event of any application based on said assigned invention or improvement, or patent issued thereon, or any reissue or application for the reissue thereof, becoming involved in priority of invention proceedings, UNDERSIGNED will cooperate with ASSIGNEE to the best of the ability of UNDERSIGNED in the matter of preparing and executing all documents and giving and producing evidence in support thereof.
- 4) UNDERSIGNED agree(s) to perform upon ASSIGNEE'S request any and all affirmative acts to obtain United States and foreign patents covering said invention or improvement and to vest all rights therein hereby conveyed to ASSIGNEE, as fully and as entirely as the same would have been held and enjoyed by UNDERSIGNED if this assignment and sale had not been made.
- 5) UNDERSIGNED hereby authorize(s) ASSIGNEE'S attorney to insert at paragraph 1, in this instrument the date on which the above-referenced patent application was filed, as well as the application number thereof when known.

ASSIGNMENT (Cont'd.)

IN WITNESS WHEREOF, this assignment has been executed by UNDERSIGNED on the date opposite UNDERSIGNED'S NAME.

DATE _____ Lu Han

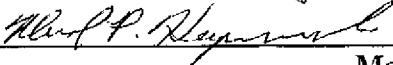
_____ Witness (Print Name) _____ Witness (Signature)

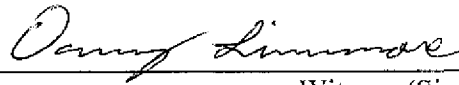
DATE _____ Rathna P. Davuluri

_____ Witness (Print Name) _____ Witness (Signature)

DATE _____ Christopher G. Smalley

_____ Witness (Print Name) _____ Witness (Signature)

DATE September 20, 2012. 
Mark P. Hagemester

Daniel Livermore _____
Witness (Print Name) _____

Witness (Signature)

ASSIGNMENT (Cont'd.)

IN WITNESS WHEREOF, this assignment has been executed by UNDERSIGNED on the date opposite UNDERSIGNED'S NAME.

DATE _____
_____ **Masaaki Sugita**

Witness (Print Name) _____ Witness (Signature)

DATE _____
_____ **Joseph S. Famolaro**

Witness (Print Name) _____ Witness (Signature)

DATE _____
_____ **Robert G. Tinger**

Witness (Print Name) _____ Witness (Signature)

ASSIGNMENT

INVENTOR(S):

Lu Han	Rathna P. Davuluri
Christopher G. Smalley	Mark P. Hagemeister
Masaaki Sugita	Joseph S. Famolaro
Robert G. Tinger	

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of and/or promise of payment which is hereby acknowledged, the undersigned person(s) named above, herein referred to as UNDERSIGNED, hereby agree(s) as follows:

- 1) UNDERSIGNED hereby assign(s) to ExxonMobil Chemical Patents Inc., a corporation of Delaware, its successors, legal representatives and assigns, herein referred to collectively as ASSIGNEE, the entire right, title and interest, for the United States and all foreign countries, in and to UNDERSIGNED'S invention or improvement and to all patent applications and patents covering same which is described in a patent application entitled:

“Fluid Bed Reactor with Staged Baffles”

and being further identified as USSN Application No.: 13/557,605; Atty. Docket No. 2011EM202/2, filed July 25, 2012, and all rights of priority created by said application under provisions of international conventions or treaties.

- 2) UNDERSIGNED agree(s) upon the request of ASSIGNEE to execute any and all applications for and documents relating to obtaining patents and the prosecution thereof for said invention or improvement, and any continuations of such applications or substitutes therefore or registrations thereof, and any specific separate assignments of any of the above required for recording in the United States Patent and Trademark Office and any foreign patent office that ASSIGNEE may deem necessary or expedient.
- 3) UNDERSIGNED agree(s) that in the event of any application based on said assigned invention or improvement, or patent issued thereon, or any reissue or application for the reissue thereof, becoming involved in priority of invention proceedings, UNDERSIGNED will cooperate with ASSIGNEE to the best of the ability of UNDERSIGNED in the matter of preparing and executing all documents and giving and producing evidence in support thereof.
- 4) UNDERSIGNED agree(s) to perform upon ASSIGNEE'S request any and all affirmative acts to obtain United States and foreign patents covering said invention or improvement and to vest all rights therein hereby conveyed to ASSIGNEE, as fully and as entirely as the same would have been held and enjoyed by UNDERSIGNED if this assignment and sale had not been made.
- 5) UNDERSIGNED hereby authorize(s) ASSIGNEE'S attorney to insert at paragraph 1, in this instrument the date on which the above-referenced patent application was filed, as well as the application number thereof when known.

ASSIGNMENT (Cont'd.)

IN WITNESS WHEREOF, this assignment has been executed by UNDERSIGNED on the date opposite UNDERSIGNED'S NAME.

DATE _____ _____ **Lu Han**

Witness (Print Name) _____
Witness (Signature)

DATE _____ _____ **Rathna P. Davuluri**

Witness (Print Name) _____
Witness (Signature)

DATE _____ _____ **Christopher G. Smalley**

Witness (Print Name) _____
Witness (Signature)

DATE _____ _____ **Mark P. Hagemester**

Witness (Print Name) _____
Witness (Signature)

