

PATENT ASSIGNMENT COVER SHEET

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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>EDWARD JAMES DENTON</td> <td>01/06/2014</td> </tr> <tr> <td>KIMBERLY ANN JOHNSON</td> <td>01/06/2014</td> </tr> <tr> <td>GLENN CHARLES KOMPLIN</td> <td>01/06/2014</td> </tr> <tr> <td>JOSPEH BROUN POWELL</td> <td>01/06/2014</td> </tr> </tbody> </table>		Name	Execution Date	EDWARD JAMES DENTON	01/06/2014	KIMBERLY ANN JOHNSON	01/06/2014	GLENN CHARLES KOMPLIN	01/06/2014	JOSPEH BROUN POWELL	01/06/2014
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JOSPEH BROUN POWELL	01/06/2014										
RECEIVING PARTY DATA											
Name:	SHELL OIL COMPANY										
Street Address:	P.O. BOX 2463										
Internal Address:	ONE SHELL PLAZA										
City:	HOUSTON										
State/Country:	TEXAS										
Postal Code:	772522463										
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>14067501</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14067501						
Property Type	Number										
Application Number:	14067501										
CORRESPONDENCE DATA											
Fax Number:	(713)241-6617										
Phone:	7132415593										
Email:	cathy.callen@shell.com										
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>											
Correspondent Name:	SHELL OIL COMPANY										
Address Line 1:	P O BOX 2463										
Address Line 2:	ONE SHELL PLAZA										
Address Line 4:	HOUSTON, TEXAS 77252-2463										
ATTORNEY DOCKET NUMBER:	TH5353-US-NP										
NAME OF SUBMITTER:	YUKIKO IWATA										

Signature:	/Yukiko Iwata/
Date:	01/14/2014
Total Attachments: 2 source=TH5353-Assignment#page1.tif source=TH5353-Assignment#page2.tif	

ASSIGNMENT

WHEREAS, I, DENTON, Edward James, JOHNSON, Kimberly Ann, KOMPLIN, Glenn Charles and POWELL, Joseph Broun, have made a certain improvement in METHODS AND SYSTEMS FOR PROCESSING LIGNIN DURING HYDROTHERMAL DIGESTION OF CELLULOSIC BIOMASS SOLIDS, for which application papers for United States Patent thereon, identified as 14/067501, have been executed by us, and,

WHEREAS, SHELL OIL COMPANY, a Delaware Corporation, has equitable rights in and to this invention and desires to confirm such rights and to acquire all right, title and interest in and to said invention;

NOW THEREFORE, for valuable consideration received, we hereby sell, assign, and transfer to said SHELL OIL COMPANY, its successors and assigns, all right, title and interest in and to said invention in the United States and in all other countries throughout the world; including without limitation those in and to the above-named application and any continuation, substitute or division application thereof and the patent or patents which may be issued thereon in the United States and any reissue of any such patent, and those in and to any application or patent or utility model in any and all such other countries of the world, and further including the right to file further applications in all countries throughout the world in the name of SHELL OIL COMPANY or whomsoever that company may nominate, and to claim the priority of the above-named United States application under the International Convention of Paris of 1883.

With respect to any country where for the filing of such an application and/or the transfer of priority rights a separate deed of sale, assignment or transfer is required, we will undertake at the request of SHELL OIL COMPANY to execute such separate deed to SHELL OIL COMPANY or to whomsoever that company may nominate.

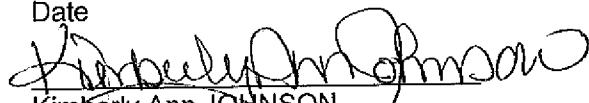
And we hereby agree that we will upon request execute any instrument which SHELL OIL COMPANY desires to carry this assignment in effect, and perfect the title transferred hereby, or to prosecute any of the above-mentioned United States applications or any foreign application on this invention.

And the Commissioner of Patents of the United States is hereby authorized to issue Letters Patent on said above-named application and on any continuation, substitute or division thereof to SHELL OIL COMPANY.

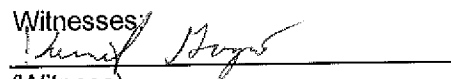
IN TESTIMONY WHEREOF, we have hereunto subscribed our names.

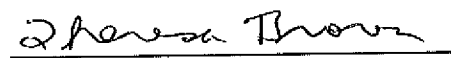

Edward James DENTON

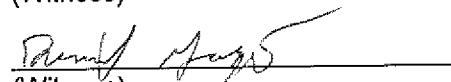
1/6/14
Date

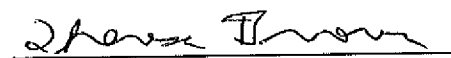

Kimberly Ann JOHNSON

1-6-14
Date

Witnesses:

(Witness)


(Witness)


(Witness)


(Witness)

Glenn Charles Komplin
Glenn Charles KOMPLIN

6-Jan-2014
Date

Joseph Broun Powell
Joseph Broun POWELL

6-Jan-2014
Date

David King
(Witness)

Sheresa Brown
(Witness)

David King
(Witness)

Sheresa Brown
(Witness)