

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Joseph Broun POWELL	01/17/2012
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	
Property Type	Number
Application Number:	13332318
CORRESPONDENCE DATA	
Fax Number:	(713)241-6617
Email:	CHARLES.WISE@SHELL.COM
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Correspondent Name:	SHELL OIL COMPANY
Address Line 1:	P.O. BOX 2463
Address Line 2:	ONE SHELL PLAZA
Address Line 4:	HOUSTON, ALASKA 772522463
ATTORNEY DOCKET NUMBER:	TH5257(US)
NAME OF SUBMITTER:	Yukiko Iwata
Total Attachments: 1 source=TH5257US-Assignment#page1.tif	

CH \$40.00 13332318

ASSIGNMENT

WHEREAS, I, Joseph Broun POWELL, have made a certain improvement in BIOMASS CONVERSION SYSTEMS HAVING A FLUID CIRCULATION LOOP CONTAINING A CENTRIPETAL FORCE-BASED SEPARATION MECHANISM FOR CONTROL OF CELLULOSIC FINES AND METHODS FOR USE THEREOF for which application papers for United States Patent thereon, identified as TH5257(US), have been executed by myself, 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, I 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.

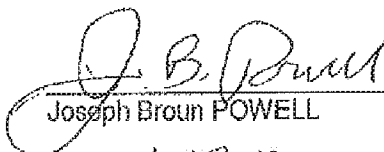
With respect to any country where for the filing of such an application and/or the transfer of priority rights a separate deed of sale, assignment or transfer is required, I will undertake at the request of SHELL OIL COMPANY to execute such separate deed to SHELL OIL COMPANY or to whomsoever that company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

And I hereby agree that I 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.

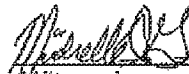
IN TESTIMONY WHEREOF, I have hereunto subscribed my name.

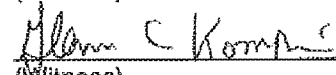
Witnesses:



 Joseph Broun POWELL
 1-17-12

 Date



 (Witness)


 (Witness)

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