

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2625773

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>MILENA VASIC</td> <td>08/30/2013</td> </tr> <tr> <td>RUBEN VAN DUREN</td> <td>08/29/2013</td> </tr> <tr> <td>MARTY PRONK</td> <td>08/14/2013</td> </tr> <tr> <td>LEEN GERRITSEN</td> <td>08/16/2013</td> </tr> </tbody> </table>		Name	Execution Date	MILENA VASIC	08/30/2013	RUBEN VAN DUREN	08/29/2013	MARTY PRONK	08/14/2013	LEEN GERRITSEN	08/16/2013
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RUBEN VAN DUREN	08/29/2013										
MARTY PRONK	08/14/2013										
LEEN GERRITSEN	08/16/2013										
RECEIVING PARTY DATA											
Name:	ALBEMARLE CORPORATION										
Street Address:	451 FLORIDA STREET										
City:	BATON ROUGE										
State/Country:	LOUISIANA										
Postal Code:	70801										
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>13866837</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13866837						
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Application Number:	13866837										
CORRESPONDENCE DATA											
Fax Number:	(713)622-0220										
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<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>											
Correspondent Name:	TOD T. TUMEY										
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Address Line 4:	HOUSTON, TEXAS 77227-2188										
ATTORNEY DOCKET NUMBER:	2520-00100										
NAME OF SUBMITTER:	TOD T. TUMEY										
Signature:	/ttumey/										

OP \$40.00 13866837

Date:

11/22/2013

Total Attachments: 3

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ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt and sufficiency of which are hereby acknowledged, we, **Milena Vasic, Ruben van Duren, Marty Pronk, and Leen Gerritsen** ("ASSIGNORS"), having made an invention in **Deep Deoxygenation of Biocrudes Utilizing Fluidized Catalytic Cracking Co-Processing with Hydrocarbon Feedstocks**, do hereby ASSIGN, SELL and CONVEY to **Albemarle Corporation**, a corporation organized, existing, and doing business at 451 Florida Street, Baton Rouge, Louisiana 70801 (sometimes hereinafter called "ASSIGNEE"), and Assignee's successors, assigns and legal representatives, the entire right, title and interest throughout the world in and to:

1. Said invention in **Deep Deoxygenation of Biocrudes Utilizing Fluidized Catalytic Cracking Co-Processing with Hydrocarbon Feedstocks**;
2. United States of America patent application on said invention, Application No. 13/866,837 filed April 19, 2013, entitled **Deep Deoxygenation of Biocrudes Utilizing Fluidized Catalytic Cracking Co-Processing with Hydrocarbon Feedstocks**;
3. All applications for patent or like protection on said invention that have now been or may in the future be made by us or our legal representatives, including any continuation, continuation-in-part and any other utility applications that may be based on this invention, whether in the United States of America or any other place anywhere in the world;
4. All patents and like protection that have now been or may in the future be granted on said invention to us or our legal representatives, whether in the United States of America or in any other country or place anywhere in the world;
5. All substitutions for and divisions, continuations, continuations-in-part, renewals, reissues, extensions, and the like of said applications and patents and like grants, including without limitation, those obtained or permissible under past, present and future laws and statutes;

6. All rights of action on account of past, present and future unauthorized use of said invention and for infringement of said patents and like protection;

7. The right in ASSIGNEE to file in its name applications for patents and like protection for said invention in any country or countries foreign to the United States; and

8. All international rights of priority associated with said invention, applications, patents and like protection; and we covenant that we, and our heirs, legal representatives, assigns, administrators, and executors, will, at the expense of ASSIGNEE, its successors and assigns, execute all papers and perform such other acts as may be reasonably necessary to give ASSIGNEE, its successors and assigns, the full benefit of this Assignment.

EXECUTED on the date indicated below, opposite our signatures.

Date: 30.08.2013.

ASSIGNORS



Milena Vasic

Date: _____

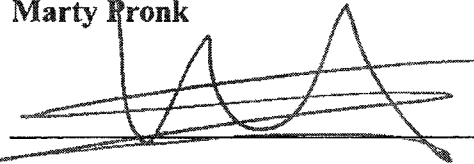
Ruben van Duren

Date: August 14 2013



Marty Bronk

Date: August 16, 2013



Leen Gerritsen

6. All rights of action on account of past, present and future unauthorized use of said invention and for infringement of said patents and like protection;

7. The right in ASSIGNEE to file in its name applications for patents and like protection for said invention in any country or countries foreign to the United States; and

8. All international rights of priority associated with said invention, applications, patents and like protection; and we covenant that we, and our heirs, legal representatives, assigns, administrators, and executors, will, at the expense of ASSIGNEE, its successors and assigns, execute all papers and perform such other acts as may be reasonably necessary to give ASSIGNEE, its successors and assigns, the full benefit of this Assignment.

EXECUTED on the date indicated below, opposite our signatures.

ASSIGNORS

Date: _____

Milena Vasic

Date: 29-08-2013 _____

 _____

Ruben van Duren

Date: _____

Marty Pronk

Date: _____

Leen Gerritsen