

FORM PTO-1595 (Modified)
(Rev. 03-01)
OMB No. 0651-0027 (exp. 5/31/2002)
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1. Name of conveying party(ies):

Robert D. Kaminsky
Matthew T. Shanley

16 November 2010
18 November 2010

2. Name and address of receiving party(ies):

Name: ExxonMobil Upstream Research Company

Internal Address: _____

Additional names(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): November 16 and 18, 2010☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Joint Research Agreement☐ Government Interest Assignment☐ Executive Order 9424, Confirmatory License☐ Other _____Street Address: P.O. Box 2189City: HoustonState: TexasCountry: USA ZIP: 77252-2189Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent numbers(s):

A. Patent Application No.(s)

12/946,532☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Douglas W. McArthurInternal Address: CORP-URC-NW358ExxonMobil Upstream Research CompanyStreet Address: P.O. Box 2189City: HoustonState: TexasZIP: 77252-2189Phone Number: 713-431-4657Fax Number: 713-431-4664Email Address: urc-mail-formalities@exxonmobil.com6. Total number of applications and patents involved: 17. Total fee (37 CFR 1.21(h) & 3.41): \$40.00☐ Authorized to be charged by credit card☒ Authorized to be charged to deposit account☐ Enclosed☐ None required (government interest not affecting title)

8. Payment Information:

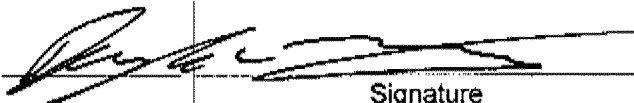
a. Credit Card Last 4 Numbers _____

Expiration Date _____

b. Deposit Account Number 05-1328

Authorized User Name _____

9. Signature:



Signature

18 Nov 10

Date

Douglas W. McArthur

Name of Person Signing

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Documents to be recorded (including cover sheet) should be faxed to (571)273-0140, or mailed to:
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PATENT

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CH \$40.00 051328 12946532

ASSIGNMENT

Inventor or Inventors: Robert D.Kaminsky and Matthew T. Shanley

In consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the undersigned person(s) (hereinafter referred to as UNDERSIGNED) hereby agree(s) as follows:

UNDERSIGNED hereby assign(s) to ExxonMobil Upstream Research Company, a Delaware corporation having offices at 3120 Buffalo Speedway, Houston, Texas, its successors, legal representatives and assigns (hereinafter referred to collectively as ASSIGNEE), free from all encumbrances, the entire right, title and interest, including all rights to sue for past infringement, for the United States and all foreign countries and patent offices or organizations, in and to all inventions, discoveries or improvements, claimed or described in the document entitled "**ENHANCED CONVECTION FOR IN SITU PYROLYSIS OF ORGANIC-RICH ROCK FORMATIONS**", and further identified as Attorney Docket No. **2009EM167**, and Serial No. **12/946,532**, filed at the U.S. Patent and Trademark office on **November 15, 2010**, (hereinafter referred to as the APPLICATION), including the right to claim priority to the APPLICATION in the United States or any foreign country under the Paris Convention or equivalent reciprocal provisions for any subsequent application, continuations, continuations-in-part, divisions, reissues, reexaminations, and extensions thereof in the United States or any foreign country (hereinafter referred to collectively as PATENT FILINGS); and further including all Letters Patent of the United States or any foreign country that may be granted thereon (hereinafter referred to collectively as ISSUED PATENTS); and UNDERSIGNED hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States and any official of any foreign country or patent office or organization whose duty it is to issue patents on applications as described above, to issue all ISSUED PATENTS to ASSIGNEE, in accordance with the terms of this Assignment.

UNDERSIGNED agree(s) upon the request of ASSIGNEE to perform any and all affirmative acts to obtain United States and foreign patents, including at least to execute any and all applications for United States or foreign patents for the APPLICATION and the PATENT FILINGS, and any documents that shall be required of UNDERSIGNED to be executed in connection with the APPLICATION, the PATENT FILINGS, or any ISSUED PATENTS, including, but not limited to priority claims therefor, continuations or substitutes therefor, prosecution thereof, any lawful oaths, declarations, affidavits, or other papers relating thereto, and any specific separate assignments of any of the above required for recording in the United States Patent and Trademark Office or other foreign country or patent office or patent organization, that ASSIGNEE may deem necessary or expedient.

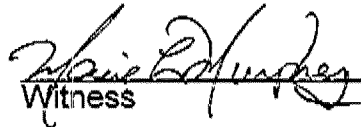
UNDERSIGNED agree(s) that in the event of any application based on the APPLICATION or the PATENT FILINGS, or any reissue or application for the reissue

thereof, becoming involved in interference proceedings, UNDERSIGNED will cooperate with ASSIGNEE to the best of the ability of UNDERSIGNED in the matter of preparing and executing preliminary statements and giving and producing evidence in support thereof.

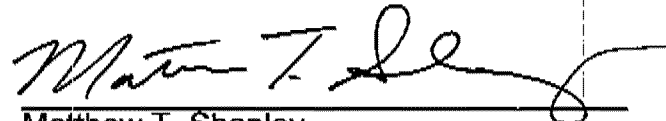
IN WITNESS WHEREOF, this Assignment has been executed by UNDERSIGNED on the date opposite UNDERSIGNED'S name.

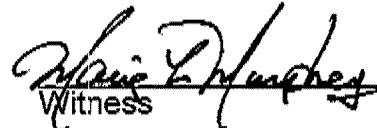
DATE Nov. 16, 2010


Robert D. Kaminsky


Witness 11-16-2010
Date

DATE Nov. 18, 2010


Matthew T. Shanley


Witness 11-18-2010
Date