

05-06-2002



102078570

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Jacob J. Habeeb  
James P. Stokes  
Martin L. Gorbaty

4.24.02

Additional name(s) of conveying party(ies) ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other: \_\_\_\_\_

Execution Date: 02/21/02, 03/29/02, 03/15/02

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

Name: ExxonMobil Upstream Research Company

Internal Address: P. O. Box 2189

Houston, Texas 77252-2189

Street Address: 3120 Buffalo Speedway

City: Houston State: TX Zip: 77098

Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application number(s) or registration number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)  
10/050,637

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Gary D. Lawson

Internal Address: ExxonMobil Upstream Research Company

P. O. Box 2189

Houston, Texas 77252-2189

Street Address: 3120 Buffalo Speedway

City: Houston State: TX Zip: 77098

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.42): \$ 40.00

☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☒ Authorized to be charged to deposit account

8. Deposit account number:

05-1328

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## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Gary D. Lawson

Name of Person Signing

Signature

16 April 2002

Date

Total number of pages including cover sheet, attachments, and document: 3

| Form PTO 1595<br>(Rev. 6-93)                                                                                                                                                                                                                                                                                                                                             |  | RECORD COVER SHEET<br><b>PATENTS ONLY</b>                                                                                                                                                                                                                                                                                                                                  |  | U.S. DEPARTMENT OF COMMERCE<br>Patent and Trademark Office |  |
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| To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                                                                                                                            |  |                                                            |  |
| 1. Name of conveying party(ies):<br>Jacob J. Habeeb<br>James P. Stokes<br>Martin L. Gorbaty                                                                                                                                                                                                                                                                              |  | 2. Name and address of receiving party(ies):<br>Name: <u>ExxonMobil Upstream Research Company</u><br>Internal Address: <u>P. O. Box 2189</u><br><u>Houston, Texas 77252-2189</u><br>Street Address: <u>3120 Buffalo Speedway</u><br>City: <u>Houston</u> State: <u>TX</u> Zip: <u>77098</u>                                                                                |  |                                                            |  |
| Additional name(s) of conveying party(ies) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                           |  | Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                             |  |                                                            |  |
| 3. Nature of conveyance:<br><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger<br><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name<br><input type="checkbox"/> Other: _____<br>Execution Date: <u>02/21/02, 02/29/02, 03/15/02</u>                                                                        |  |                                                                                                                                                                                                                                                                                                                                                                            |  |                                                            |  |
| 4. Application number(s) or registration number(s):<br>If this document is being filed together with a new application, the execution date of the application is: _____<br>A. Patent Application No.(s)<br><u>10/050,637</u>                                                                                                                                             |  | B. Patent No.(s)<br><br><br><br><br>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                       |  |                                                            |  |
| 5. Name and address of party to whom correspondence concerning document should be mailed:<br>Name: <u>Gary D. Lawson</u><br>Internal Address: <u>ExxonMobil Upstream Research Company</u><br><u>P. O. Box 2189</u><br><u>Houston, Texas 77252-2189</u><br>Street Address: <u>3120 Buffalo Speedway</u><br>City: <u>Houston</u> State: <u>TX</u> Zip: <u>77098</u>        |  | 6. Total number of applications and patents involved: <u>1</u><br>7. Total fee (37 CFR 3.42): ..... \$ <u>44.00</u><br><input type="checkbox"/> Enclosed - Any excess or insufficiency should be credited or debited to deposit account<br><input checked="" type="checkbox"/> Authorized to be charged to deposit account<br>8. Deposit account number:<br><u>06-1328</u> |  |                                                            |  |
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| 9. Statement and signature.<br><i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i><br><br>_____<br>Name of Person Signing<br><br>_____<br>Signature<br><br>_____<br>Date<br><br>Total number of pages including cover sheet, attachments, and document: <u>3</u> |  |                                                                                                                                                                                                                                                                                                                                                                            |  |                                                            |  |

## ASSIGNMENT

Inventor(s): *Jacob J. Habeeb, James P. Stokes, Martin L. Gorbaty*

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

UNDERSIGNED hereby assign(s) to ExxonMobil Upstream Research Company, 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, discovery or improvement, described in United States patent application entitled as "*Method of Generating Heat and Vibration in a Subterranean Hydrocarbon-Bearing Formation*", Serial No. 10/050,637 filed on January 15, 2002 and in and to said application for patent and any United States patent or patents and any foreign patent or patents that may be granted thereon.

UNDERSIGNED agree(s) upon the request of ASSIGNEE to execute any and all applications for United States patent for said invention, discovery or improvement, and any continuations of such applications or substitutes therefor, and any lawful oaths, affidavits, or other papers relating thereto, and any specific separate assignments of any of the above required for recording in the United States Patent Office, that ASSIGNEE may deem necessary or expedient.

UNDERSIGNED agree(s) that in the event of any application based on said assigned invention, discovery or improvement, or patent issued thereon, 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.

UNDERSIGNED agree(s) upon request of ASSIGNEE to execute any and all documents that shall be required of UNDERSIGNED to be executed in connection with any and all applications for foreign patents for said invention, discovery or improvement, including the prosecution thereof and the claiming of the International Convention date therefor and for registration in foreign countries of any patents that may be granted for said invention, discovery or improvement.

UNDERSIGNED agree(s) to perform upon ASSIGNEE'S request any and all affirmative acts to obtain United States and foreign patents upon said invention, discovery or improvement

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APR. 4. 2002 8:31AM

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NO. 417 P. 4  
Docket No. PM 99.044  
REGULAR

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.

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

DATE: 2/21/2002Jacob J. Habesh  
Inventor: Jacob J. HabeshDATE: 2/21/2002Mon. Andrei Pomic  
Witness:DATE: 2/29/2002James P. Stokes  
Inventor: James P. StokesDATE: 3/29/2002Robert J. Williams  
Witness:DATE: March 15, 2002Martin L. Gorbats  
Inventor: Martin L. GorbatsDATE: March 15, 2002David T. Fennigheill  
Witness:



APRIL 04, 2002

PTAS

EXXONMOBIL UPSTREAM RESEARCH COMPANY  
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HOUSTON, TX 77098

UNITED STATES DEPARTMENT OF COMMERCE  
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UNITED STATES PATENT AND TRADEMARK OFFICE  
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THE ENCLOSED DOCUMENT HAS BEEN EXAMINED AND FOUND NON-RECORDABLE BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. THE REASON(S) FOR NON-RECORDATION ARE STATED BELOW. DOCUMENTS BEING RESUBMITTED FOR RECORDATION MUST BE ACCOMPANIED BY A NEW COVER SHEET REFLECTING THE CORRECT INFORMATION TO BE RECORDED AND THE DOCUMENT ID NUMBER REFERENCED ABOVE.

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1. PLEASE CHECK THE EXECUTION DATE 2-29-02. THERE ARE ONLY 28 DAYS IN FEBRUARY.

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ASSIGNMENT DIVISION  
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