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(Rev. 10/02)  
OMB No. 0651-0027 (exp. 6/30/2005)

PATENTS ONLY

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

**1. Name of conveying party(ies):**  
Sylvain LOURET  
Patrice FONT  
Sylvie LACOMBE  
Eric SANCHEZ  
Laurent SIMON

**2. Name and address of receiving party(ies):**  
  
Name: Institut Francais de Petrole  
Street Address: 1 & 4 avenue de Bois-Preau  
City: Rueil Malmaison Cedex State: FRANCE  
Zip:92852

Additional name(s) of conveying party(ies) attached?  Yes  No

No additional names(s) or address(es) attached  Yes  No

**3. Nature of Conveyance:**  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other  
  
Execution Date: January 16, 2006; January 17, 2006;  
January 17, 2006; January 12, 2006; January 16, 2006

**4. Application number(s) or patent 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) 11/267,570  
B. Patent No.(s)  
  
Additional numbers attached?  Yes  No

**5. Name and address of party to whom correspondence concerning document should be mailed:**  
  
Name: MILLEN, WHITE, ZELANO & BRANIGAN, P.C.  
Address: Arlington Court Plaza I Suite 1400  
2200 Clarendon BLVD.  
Arlington, VA 22201

**6. Total number of applications and patents involved: 1**  
**7. Total fee (37CFR 3.41) \$40.00**  
 Enclosed  
 Authorized to be charged to deposit account  
**8. DEPOSIT ACCOUNT NO. 13-3402**  
  
(Attach duplicate copies of this page if paying by deposit account)

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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.*  
  
I, William Millen  
Names of Person Signing William Millen Signature [Signature]  
Date 02/15/2006  
PET-2216  
LMOELLER 00000196 11267570  
01 FC:8021  
40.00 OP  
  
Total number of pages including cover sheet, attachments, and documents 2

Attorney Docket No. PET-2216

# ASSIGNMENT

ATTY. DOCKET NO. PET-2216

WHEREAS the below named inventor (if only one inventor is named below) or inventors (if plural inventors are named below) hereinafter referred to as the ASSIGNOR invented a certain improvement(s) relating to

**MULTI-ZONE FIXED BED OR MOVING-BED REACTOR WITH AN INTEGRATED HEAT EXCHANGER**

and for which one or more of the following apply:

- U.S. Provisional Application Serial No. \_\_\_\_\_ was filed in the United States Patent and Trademark Office on \_\_\_\_\_
- A U.S. Non-Provisional
  - application for Letters Patent to be filed in the United States Patent and Trademark Office was executed on even date
  - Application Serial No. 11/267,570 for Letters Patent was filed in the U.S. Patent and Trademark Office on November 7, 2005
  - as International Application No. \_\_\_\_\_ was filed on \_\_\_\_\_, designating the United States.

AND WHEREAS

Institut Francais du Petrole  
1 & 4 avenue de Bois-Preau  
92852 Rueil Malmaison Cedex, France

hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and all application(s) listed above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations and extensions thereof.

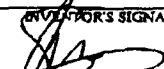
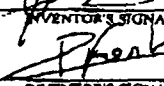

NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application(s), including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, and in and to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or to accrue with respect to the filing or securing of patents in the United States and/or any countries foreign thereto concerning said invention, SAID ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and application, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, including the right to sue for damages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same, if the assignment had not been made.

AND ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to execute any other papers that may be needed in connection with filing said applications and securing Letters Patents thereon.

AND ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on said application, and on any and all divisions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.

The undersigned hereby grant(s) the law firm of Millen, White, Zelano & Branigan, P.C. the power to insert on this assignment information which may be necessary or desirable in order for the United States Patent and Trademark Office to properly record this document.

IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR

201 FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
LOURET, Sylvain		16.01.06
202 FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
FONT, Patrice		17.01.06
203 FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
LACOMBE, Sylvie	S. LACOMBE	17.01.06
204 FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
SANCHEZ, Eric	E. SANCHEZ	12.01.06
205 FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
SIMON, Laurent		16.01.06
206 FULL NAME OF SIXTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
207 FULL NAME OF SEVENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
208 FULL NAME OF EIGHTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
209 FULL NAME OF NINTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE