

# PATENT ASSIGNMENT

Electronic Version v1.1

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| SUBMISSION TYPE:   | NEW ASSIGNMENT                         |
| NATURE OF CONVEYANCE:  | ASSIGNMENT                             |
| CONVEYING PARTY DATA   |  |
| Name   | Execution Date                         |
| Gerard Hotier  | 10/22/2007                             |
| Philibert Leflaive   | 10/10/2007                             |
| Sylvain Louret   | 10/10/2007                             |
| Frederic Augier  | 10/10/2007                             |
| RECEIVING PARTY DATA   |  |
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| Street Address:  | 1 & 4 avenue de Bois-Preau             |
| City:  | Rueil Malmaison Cedex                  |
| State/Country:   | FRANCE                                 |
| Postal Code:   | 92852                                  |
| PROPERTY NUMBERS Total: 1  |  |
| Property Type  | Number                                 |
| Application Number:  | 11890526                               |
| CORRESPONDENCE DATA  |  |
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| ATTORNEY DOCKET NUMBER:  | PET-2320                               |
| NAME OF SUBMITTER:   | I. William Millen                      |
| Total Attachments: 1   |  |

OP \$40.00 11890526

**500486878**

**PATENT**  
**REEL: 020648 FRAME: 0220**



AF 5484

# ASSIGNMENT

ATTY DOCKET NO PEI-2320

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

## PROCESS AND DEVICE FOR SIMULATED MOVING BED SEPARATION WITH A REDUCED NUMBER OF VALVES

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. 11/890,526 for Letters Patent was filed in the U.S. Patent and Trademark Office on August 7, 2007
- ☐ as International Application No. \_\_\_\_\_ was filed on \_\_\_\_\_ designating the United States

### AND WHEREAS

IFP  
1 & 4 Avenue de Bois Preau  
92852 Rueil Malmaison  
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       |
| Gerard Hotier                                 | <i>gerard P. hotier</i>   | 22/10/2007 |
| 202 FULL NAME OF SECOND JOINT INVENTOR        | INVENTOR'S SIGNATURE      | DATE       |
| Philibert Leslaive                            | <i>Philibert Leslaive</i> | 10/10/2007 |
| 203 FULL NAME OF THIRD JOINT INVENTOR         | INVENTOR'S SIGNATURE      | DATE       |
| Sylvain Louier                                | <i>Sylvain Louier</i>     | 10/10/2007 |
| 204 FULL NAME OF FOURTH JOINT INVENTOR        | INVENTOR'S SIGNATURE      | DATE       |
| Frederic Augier                               | <i>Frederic Augier</i>    | 10/10/2007 |
| 205 FULL NAME OF FIFTH JOINT INVENTOR         | INVENTOR'S SIGNATURE      | DATE       |
| 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       |

PATENT

RECORDED: 03/13/2008

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