

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

| 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>Frederic FEUGNET</td> <td>06/26/2013</td> </tr> <tr> <td>Francois HUGUES</td> <td>06/26/2013</td> </tr> <tr> <td>Mai Phuong DO</td> <td>06/25/2013</td> </tr> <tr> <td>Romain ROUX</td> <td>06/25/2013</td> </tr> </tbody> </table>                                                           |                            | Name          | Execution Date         | Frederic FEUGNET    | 06/26/2013                 | Francois HUGUES | 06/26/2013            | Mai Phuong DO  | 06/25/2013 | Romain ROUX  | 06/25/2013 |
| Name                                                                                                                                                                                                                                                                                                                                                                                                | Execution Date             |               |                        |                     |                            |                 |                       |                |            |              |            |
| Frederic FEUGNET                                                                                                                                                                                                                                                                                                                                                                                    | 06/26/2013                 |               |                        |                     |                            |                 |                       |                |            |              |            |
| Francois HUGUES                                                                                                                                                                                                                                                                                                                                                                                     | 06/26/2013                 |               |                        |                     |                            |                 |                       |                |            |              |            |
| Mai Phuong DO                                                                                                                                                                                                                                                                                                                                                                                       | 06/25/2013                 |               |                        |                     |                            |                 |                       |                |            |              |            |
| Romain ROUX                                                                                                                                                                                                                                                                                                                                                                                         | 06/25/2013                 |               |                        |                     |                            |                 |                       |                |            |              |            |
| RECEIVING PARTY DATA                                                                                                                                                                                                                                                                                                                                                                                |                            |               |                        |                     |                            |                 |                       |                |            |              |            |
| <table border="1"> <tr> <td>Name:</td> <td>IFP ENERGIES NOUVELLES</td> </tr> <tr> <td>Street Address:</td> <td>1 &amp; 4 AVENUE DE BOIS PREAU</td> </tr> <tr> <td>City:</td> <td>RUEIL-MALMAISON CEDEX</td> </tr> <tr> <td>State/Country:</td> <td>FRANCE</td> </tr> <tr> <td>Postal Code:</td> <td>92852</td> </tr> </table>                                                                       |                            | Name:         | IFP ENERGIES NOUVELLES | Street Address:     | 1 & 4 AVENUE DE BOIS PREAU | City:           | RUEIL-MALMAISON CEDEX | State/Country: | FRANCE     | Postal Code: | 92852      |
| Name:                                                                                                                                                                                                                                                                                                                                                                                               | IFP ENERGIES NOUVELLES     |               |                        |                     |                            |                 |                       |                |            |              |            |
| Street Address:                                                                                                                                                                                                                                                                                                                                                                                     | 1 & 4 AVENUE DE BOIS PREAU |               |                        |                     |                            |                 |                       |                |            |              |            |
| City:                                                                                                                                                                                                                                                                                                                                                                                               | RUEIL-MALMAISON CEDEX      |               |                        |                     |                            |                 |                       |                |            |              |            |
| State/Country:                                                                                                                                                                                                                                                                                                                                                                                      | FRANCE                     |               |                        |                     |                            |                 |                       |                |            |              |            |
| Postal Code:                                                                                                                                                                                                                                                                                                                                                                                        | 92852                      |               |                        |                     |                            |                 |                       |                |            |              |            |
| 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>13989590</td> </tr> </tbody> </table>                                                                                                                                                                                                                           |                            | Property Type | Number                 | Application Number: | 13989590                   |                 |                       |                |            |              |            |
| Property Type                                                                                                                                                                                                                                                                                                                                                                                       | Number                     |               |                        |                     |                            |                 |                       |                |            |              |            |
| Application Number:                                                                                                                                                                                                                                                                                                                                                                                 | 13989590                   |               |                        |                     |                            |                 |                       |                |            |              |            |
| CORRESPONDENCE DATA                                                                                                                                                                                                                                                                                                                                                                                 |                            |               |                        |                     |                            |                 |                       |                |            |              |            |
| <p>Fax Number: 7032436410<br/> <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 703-243-6333<br/>       Email: mail@mwzb.com</p> <p>Correspondent Name: Millen, White, Zelano &amp; Branigan - AMB<br/>       Address Line 1: 2200 Clarendon Blvd.<br/>       Address Line 2: Suite 1400<br/>       Address Line 4: Arlington, VIRGINIA 22201</p> |                            |               |                        |                     |                            |                 |                       |                |            |              |            |
| ATTORNEY DOCKET NUMBER:                                                                                                                                                                                                                                                                                                                                                                             | PET-2870                   |               |                        |                     |                            |                 |                       |                |            |              |            |
| NAME OF SUBMITTER:                                                                                                                                                                                                                                                                                                                                                                                  | John A. Sopp               |               |                        |                     |                            |                 |                       |                |            |              |            |
| Signature:                                                                                                                                                                                                                                                                                                                                                                                          | /John A. Sopp/             |               |                        |                     |                            |                 |                       |                |            |              |            |

PATENT

Date:

07/12/2013

Total Attachments: 2

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# ASSIGNMENT

ATTY. DOCKET NO. PBT-2876

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 FOR CONVERTING A HEAVY FEED INTO MIDDLE DISTILLATE

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. 13/989,390 for Letters Patent was filed in the U.S. Patent and Trademark Office on May 24, 2013,
- ☒ as International Application No. PCT/FR2011/000389 was filed on November 3, 2011, designating the United States.

AND WHEREAS

IFP ENERGIES NOUVELLES  
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.

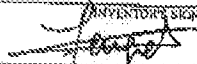
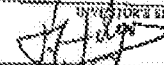
NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application(s), including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, 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 thereon, including any and all renewals, reissues, reexaminations and extensions thereof, including the right to sue for damages accruing before the assignment, with all the rights, powers, privileges and advantages in anywise arising from or pertaining 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 simple 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 Millien, White, Zelano & Brunigan, 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 FIRST OR FIRST NAMED INVENTOR | INVENTOR'S SIGNATURE                                                                | DATE       |
| Frederic PEUGNET                               |  | 06/26/2013 |
| 202 FULL NAME OF SECOND JOINT INVENTOR         | INVENTOR'S SIGNATURE                                                                | DATE       |
| Francois HUGUES                                |  | 06/26/2013 |
| 203 FULL NAME OF THIRD JOINT INVENTOR          | INVENTOR'S SIGNATURE                                                                | DATE       |
| Mai Phuong DO                                  |                                                                                     |            |
| 204 FULL NAME OF FOURTH JOINT INVENTOR         | INVENTOR'S SIGNATURE                                                                | DATE       |
| Romain ROLUX                                   |                                                                                     |            |

# ASSIGNMENT

ATTY. DOCKET NO. PET-2670

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 FOR CONVERTING A HEAVY FEED INTO MIDDLE DISTILLATE

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. 13/969,590 for Letters Patent was filed in the U.S. Patent and Trademark Office on May 24, 2013.
- ☒ as International Application No. PCT/FR2011/000589 was filed on November 3, 2011, designating the United States.

AND WHEREAS

BY ENERGIES NOUVELLES  
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

|                                        |                      |            |
|----------------------------------------|----------------------|------------|
| 381 FULL NAME OF FIRST NAMED INVENTOR  | INVENTOR'S SIGNATURE | DATE       |
| Frederic FBUGNET                       |                      |            |
| 382 FULL NAME OF SECOND NAMED INVENTOR | INVENTOR'S SIGNATURE | DATE       |
| Francois HUGUES                        |                      |            |
| 383 FULL NAME OF THIRD NAMED INVENTOR  | INVENTOR'S SIGNATURE | DATE       |
| Mai Phuong DO                          |                      | 25/06/2013 |
| 384 FULL NAME OF FOURTH NAMED INVENTOR | INVENTOR'S SIGNATURE | DATE       |
| Romain ROUX                            |                      | 25/06/2013 |

PATENT

RECORDED: 07/12/2013

REEL: 030787 FRAME: 0778