

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>Thierry GAUTHIER</td> <td>06/18/2010</td> </tr> <tr> <td>Vincent COUPARD</td> <td>06/18/2010</td> </tr> <tr> <td>Jan VERSTRAETE</td> <td>06/21/2010</td> </tr> <tr> <td>Romain ROUX</td> <td>06/28/2010</td> </tr> </tbody> </table>		Name	Execution Date	Thierry GAUTHIER	06/18/2010	Vincent COUPARD	06/18/2010	Jan VERSTRAETE	06/21/2010	Romain ROUX	06/28/2010
Name	Execution Date										
Thierry GAUTHIER	06/18/2010										
Vincent COUPARD	06/18/2010										
Jan VERSTRAETE	06/21/2010										
Romain ROUX	06/28/2010										
RECEIVING PARTY DATA											
Name:	IFP										
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>12666129</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12666129						
Property Type	Number										
Application Number:	12666129										
CORRESPONDENCE DATA											
Fax Number:	(703)243-6410										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	(703) 243-6333										
Email:	smsmith@mwzb.com										
Correspondent Name:	Millen, White, Zelano & Branigan P.C.										
Address Line 1:	2200 Clarendon Blvd.										
Address Line 2:	Suite 1400										
Address Line 4:	Arlington, VIRGINIA 22201										
ATTORNEY DOCKET NUMBER:	PET-2569										
NAME OF SUBMITTER:	I. William Millen										
Total Attachments: 1											

OP \$40.00 12666129

501220711

**PATENT
 REEL: 024618 FRAME: 0603**

ASSIGNMENT

ATTY. DOCKET NO. PET-2569

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

REACTION ZONE COMPRISING TWO RISERS IN PARALLEL AND A COMMON GAS-SOLID SEPARATION ZONE, FOR THE PRODUCTION OF PROPYLENE

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. 12/666,129 for Letters Patent was filed in the U.S. Patent and Trademark Office on December 22, 2009 as International Application No. PCT/FR2008/000710 was filed on May 23, 2008, designating the United States.

AND WHEREAS

JFP
1 & 4, avenue de Bois-Préau
Rueil-Malmaison Cedex 92852
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.

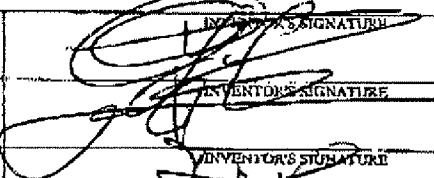

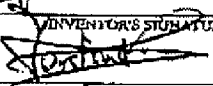

NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application(s), including 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
Thierry GAUTHIER		June 18 th , 2010
202 FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Vincent COUPARD		Jun 18 th , 2010
203 FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Jad VERS'RAETE		June 21 st , 2010
204 FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Romain ROUX		June 23 rd , 2010
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

PATENT

RECORDED: 06/30/2010

REEL: 024618 FRAME: 0605