

IN THE UNITED STATES

09-29-1999

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RECORDATION

PAT



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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): Renaud PONTIER Régis BONIFAY Gérard COURTEHEUSE Mariano DEL POZO Thierry GAUTHIER  No additional names attached <input type="checkbox"/>	2. Name and address of receiving party(ies):  Name: Institut Français du Pétrole
3. Nature of Conveyance: <input checked="" type="checkbox"/> assignment <input type="checkbox"/> merger <input type="checkbox"/> security agreement <input type="checkbox"/> change of name <input type="checkbox"/> other	Address:  4, avenue de Bois-Préau F-92506 Rueil-Malmaison, FRANCE  No additional names(s) or address(es) attached <input type="checkbox"/>
EXECUTION DATE: June 8, 1998, June 10, 1998 and July 3, 1998	
4. Application number(s) or patent number(s): THIS ASSIGNMENT IS NOT BEING FILED WITH A NEW APPLICATION.	
A. Patent Application Number(s)  09/077,007	B. Patent Number(s)
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 <input checked="" type="checkbox"/> Check enclosed <input type="checkbox"/> Charge any deficiencies in the payment of fees associated with this communication or credit any overpayment to 8. DEPOSIT ACCOUNT NO. 13-3402
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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.

Brion P. Heaney  
Attorney

Signature

September 27, 1999  
Date

Total number of pages including cover sheet, attachments and documents: 2  
Attorney Docket # PET 1655

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PATENT  
REEL: 010266 FRAME: 0512

# ASSIGNMENT

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 relating to

## PROCESS AND APPARATUS FOR DROPPER CATALYTIC CRACKING INJECTING A FEED AT A SUITABLE ANGLE ONTO A CONDITIONED CATALYST

- ☐ for which an application for Letters Patent to be filed in the United States Patent and Trademark Office was executed on even date.
- ☒ for which U.S. Application Serial No. 09/077007 for Letters Patent was filed in the U.S. Patent and Trademark Office on 19 August 1998.
- ☒ for which an International Application was filed on 16 September 1997 as PCT/FR97/01630, designating the United States.

AND WHEREAS Institut Français du Pétrole  
4, avenue de Bois-Préau  
F-92506 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 application, 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.

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, 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 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, SAID ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and application, 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, 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 any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR.

201	FULL NAME OF SOLE OR FIRST NAMED INVENTOR Renaud PONTIER	INVENTOR'S SIGNATURE <i>Renaud Pontier</i>	DATE <i>8th June 1998</i>
202	FULL NAME OF SECOND JOINT INVENTOR, IF ANY Régis BONIFAY	INVENTOR'S SIGNATURE <i>Régis Bonifay</i>	DATE <i>10th June 1998</i>
203	FULL NAME OF THIRD JOINT INVENTOR, IF ANY Gérard COURTEHEUSE	INVENTOR'S SIGNATURE <i>Gérard Courteheuse</i>	DATE <i>10 June 1998</i>
204	FULL NAME OF FOURTH JOINT INVENTOR, IF ANY Mariano DEL POZO	INVENTOR'S SIGNATURE <i>Mariano Del Pozo</i>	DATE <i>3/10/98</i>
205	FULL NAME OF FIFTH JOINT INVENTOR, IF ANY Thierry GAUTHIER	INVENTOR'S SIGNATURE <i>Thierry Gauthier</i>	DATE <i>8th June 1998</i>
206	FULL NAME OF SIXTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
207	FULL NAME OF SEVENTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
208	FULL NAME OF EIGHTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE