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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): Thierry GAUTHIER Patrick LEROY Jérôme BAYLE Taisel MIURA No additional names attached		2. Name and address of receiving party(ies): INSTITUT FRANÇAIS DU PÉTROLE 4, avenue de Bois Préau 92852 Ruell-Malmaison Cedex France No additional names(s) or address(es) attached	
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			
EXECUTION DATE: March 25, 1999, March 26, 1999 and March 30, 1999			
4. Application number(s) or patent number(s): THIS DOCUMENT IS NOT BEING FILED WITH A NEW APPLICATION.			
A. Patent Application Number(s) 09/243,116		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 Courthouse 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 checked="" 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.

I. William Millen
Attorney for Applicant(s)

I. William Millen May 14, 1999
Signature Date

- ◆ Total number of pages including cover sheet, attachments and documents: 2
- ◆ Attorney Docket # PET-1692

05/18/1999	NTM11	00000169	09243116
01	FC:581		40.00 EP

PATENT
REEL: 009949 FRAME: 0261

ASSIGNMENT

ATTY. DOCKET NO.:

PET 1692

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

STRIPPING AND SEPARATING APPARATUS AND ITS USE IN FLUIDISED BED CATALYTIC CRACKING

- 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. 09/243,116 for Letters Patent was filed in the U.S. Patent and Trademark Office on February 3, 1999
- for which an International Application was filed on _____ as _____, designating the United States.

AND WHEREAS Institut Francais du Pétrole
4, avenue de Bois Préau
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 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.

NO.	FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
201	Thierry GAUTHIER	<i>Thierry Gauthier</i>	25 th March 1999
202	Patrick LEROY	<i>Patrick Leroy</i>	25 th March 1999
203	Jérôme BAYLE	<i>Jérôme Bayle</i>	26 th March 1999
204	Taisei MIURA	<i>Taisei MIURA</i>	30 th of March 1999
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
210	FULL NAME OF TENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
211	FULL NAME OF ELEVENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
212	FULL NAME OF TWELFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE

RECORDED: 05/14/1999

PATENT
REEL: 009949 FRAME: 0262