



IN THE U.S.

07-20-1998

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

MRD 7-14-98

1. Name of conveying party(ies): Pierre-Henri BIGEARD Frédéric MOREL Christophe GUERET Patrick BRIOT Pierre MARION No additional names attached <input checked="" type="checkbox"/>		2. Name and address of receiving party(ies): Institut Français du Pétrole 1 et 4 avenue de Bois-Préau 92852 RUEIL-MALMAISON CEDEX (France) No additional names(s) or address(es) attached <input checked="" type="checkbox"/>	
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: May 18, May 20 and May 25, 1998.			
4. Application number(s) or patent number(s): THIS DOCUMENT IS NOT BEING FILED WITH A NEW APPLICATION.			
A. Patent Application Number(s) 09/103,526 <i>at</i>		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 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, Reg. No. 19,544,
Attorney for Applicant(s)

Signature

July 14, 1998

Date

- ♦ Total number of pages including cover sheet, attachments and documents: 3
- ♦ Attorney Docket # PET 1660

IWM(dmd)AK/PAT/PET/1660/sg record/wqsl

PATENT
REEL: 9311 FRAME: 0235

4157/159 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 FOR CONVERTING HEAVY CRUDE OIL FRACTIONS, COMPRISING AN EBULLATING BED CONVERSION STEP AND A HYDROCRACKING STEP

☐ 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. 09/103,526 for Letters Patent was filed in the U.S. Patent and Trademark Office on June 24, 1998

☐ for which an International Application was filed on _____ PCT/ designating the United States.

AND WHEREAS

INSTITUT FRANÇAIS DU PETROLE
 1 et 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 thereof, including any and all renewals, reissues, and prolongations thereof.

NOW, THIS WITNESSETH that for good and valuable considerations, 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 thereof, including any and all renewals, reissues, and prolongations thereof, ASSIGNEE and its assigns and legal representatives to have, hold, exercise, and enjoy the said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patents which may be granted thereof, including any and all renewals, reissues, and prolongations 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, prolongations 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 for said invention and to assign the same to said ASSIGNEE or its assigns or legal representative and to execute any other papers that may be needed in connection with filing said application and securing a Letters Patent 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.

IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR.

201	FULL NAME OF SOLE OR FIRST INVENTOR	INVENTOR'S SIGNATURE	DATE
	BIGEARD Pierre-Henri	Pierre-Henri BIGEARD	12 th May 1998
202	FULL NAME OF SECOND JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
	MOREL Frédéric	Frédéric MOREL	18 th May 1998
203	FULL NAME OF THIRD JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
	GUERET Christophe	Christophe GUERET	20 th May 1998
204	FULL NAME OF FOURTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
	BRIOT Patrick	Patrick BRIOT	20 th May 1998
205	FULL NAME OF FIFTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
	MARION Pierre	Pierre MARION	25 May 1998
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
209	FULL NAME OF NINTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
210	FULL NAME OF TENTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
211	FULL NAME OF ELEVENTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE
212	FULL NAME OF TWELFTH JOINT INVENTOR, IF ANY	INVENTOR'S SIGNATURE	DATE

PATENT