## PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Philibert Leflaive	02/17/2011
Tom Frising	02/18/2011
Damien Leinekugel Le Cocq	02/17/2011
Gerard Hotier	02/18/2011

### **RECEIVING PARTY DATA**

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

Property Type	Number
Application Number:	12809858

### **CORRESPONDENCE DATA**

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Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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Address Line 4: Arlington, VIRGINIA 22201

ATTORNEY DOCKET NUMBER:	PET-2624
NAME OF SUBMITTER:	Harry B. Shubin

Total Attachments: 2

PATENT REEL: 025866 FRAME: 0663 OF \$40.00 1280985

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PATENT REEL: 025866 FRAME: 0664

## ASSIGNMENT

ATTY, DOCKET NO. PET-2623

WHEREAS the below named inventor (if only one inventor is named below) or inventors (if plum) inventors are named below) hereinafter referred to us the ASSIGNOR invented a certain improvement(s) relating to

IMPROVED DEVICE FOR SIMULATED MOVING BED SEPARATION

PRANCE

and for	which one	or more of the following apply:
	U.S. Pi	ovisional Application Serial No. was filed in the United States Patent and Trademark Cifflee on.
A U.S. Non-Provisional		Non-Provisional
		application for Letters Potent to be filed in the United States Potent and Trademark Office was executed on even date.  Application Serial No. 12/809,658 for Letters Patent was filed in the U.S. Patent and Trademark Office on June 21, 2010.  as International Application No. PCT/F R2008/001677 was filed on 12/01/2008, designating the United States
	AND '	WHEREAS  IFP Energies nouvelles 1-4 Avenue de Bois Firmu RUEIL MALMAISON CEDEX 92852

hereinafter referred to as the ASSKNHE, 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 carles 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, recogninations and extensions thereof.

NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR bestby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the cutire and exclusive right, title and interest in and to acid invention and application(e), including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all tenterals, reissues, reasonimations and extensions thereof, and in and to any and all U.S. (including provisional) or foreign priority and/or convention rights or bonefuls accurring or to necrue 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 center priority rights (U.S. and foreign), divisions and continuations thereof, they and all Letters Patent which may be granted therefor, including any and all renewels, reissues, reasonimations 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 appearations flareoto, for and during the term or terms of any and all such Letters Patent when printed, including any and all renewals, reessues, reescapinations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as emple and benefit as manner to all interns 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 Tradomarks to issue a Lollor Patent on said application, and on any and all divisions and southeastions thereof, to ASSIGNES, its assigns and logal 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 property record this document.

#### IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR

201 PULL NAME OF SOLE OR FIRST NAMED IN VERTOR	INVENTORIS SIGNATURE	PATE
Philibert LEFLAIVE	Alla	17/02/2011
202 FUIL HAME OF SOLE OR FIRST NAMED INVENTOR	INVESTOR'S HOMATURE	PATE
Tom PRISING	į r	
201 FULL NAME OF SOLD OR PIKST NAMED INVENTOR	UNVENTORSIGNATIVED	, DATE
Damien LEINEKUGEI-LE-COCQ	Ser Marie	14/02/2011
204 FULL WAME OF SOLE OR PHRAC NAMED INVENTOR	UNIVENTOR'S SIGNATURE	DATE
Gerard HOTIER		
L	A STATE OF THE STA	_1

REEL: 025866 FRAME: 0665

**PATENT** 

#### ASSIGNMENT

ATTY, DOCKET NO PRT-2624

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

IMPROVED DEVICE FOR SIMULATED MOVING BED SEPARATION

and for w	hich one	or more of the following apply:	
	U.S. Provisional Application Script No. was tiled in the United States Patent and Trademark Office on.		
Ø	A U.S. Non-Provisional		
	(a) (a) (b)	application for Letters Patent to be filed in the United States Patent and Trademark Office was excepted on even date Application Serial No. 12/809,858 for Letters Patent was filed in the U.S. Patent and Trademark Office on June 21, 2010, as International Application No. PCT/FR2003/001677 was filed on 12/01/2008, designating the United States.	
	AND '	WHEREAS  IFP Energies nouvelles  1-4 Avenue de Bois Presu  RUEIL MALMAISON CEDEX 92852	

nercinater referred to us the ASSIGNEE, is desirous of acquiring the entire right, title, and inscrets in and to said invention and all application(s) listed above, including any and all entire priority rights (U.S. and foreign), divisions and continuations thereof, and any and all tenervals, reissued, 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 ASSIGNOE, its assigns and legal representatives, the entire and exclusive right, little and interest in and to said invention and application(s), including any and all devisions 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 according or to accrue with respect to the filling or securing of patents in the United States and/or any committee foreign hierarco concerning said invention, SAID ASSIGNIES, to essigns and logal representatives to have, hold, exercise, and enjoy sald invention and application, including any and oil ending religion pelority 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, toxicalisations thereof, including the right to sue for damages according before the assignment, with all the rights, powers, privileges and advantages in anywise axising from or appearations thereto, for and during the terms of any and all such Letters Patent when granted, including any and all transwals, reissues, reexaminations and extensions thereof, for the use and benefit of ASSIGNOE and its assignment and not been made.

AND ASSIGNOR hereby agrees to excente 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 ASSIGNED, 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 Patent 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, Zehmo & Branigum, P.C. the power to insert on this assignment information which may be necessary or desirable in order for the United States Patent and Trademerk Office to property record this document.

IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR

201 Full name of Bolk or First Habiet) rivertor	INVENTOR'S SIGNATURE	DATE
Philippe LeftAIVE		
202 YULL NAME OF SOLD, OR PIRST NASHDO INVENTOR	PENDAGRA DICHAYURE	IS CI DATE Q 3 3
Tom FRISING		18 February 2014
OU FULL NAME OF SOLE OF FIRST NAMED INVENTOR	IKVESTÖK'S SIGNATIIKE	OATE
Damien LEINEKUGEL-LE-COCQ		1
204 FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DAW
Gerard HOTTER	gerard holder of	18 tehruan 26

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RECORDED: 02/25/2011

PATENT REEL: 025866 FRAME: 0666