503529044 10/19/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3575670

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
VINCENT COUPARD	07/26/2015
NATACHA TOUCHAIS	07/09/2015
THOMAS PLENNEVAUX	08/24/2015
EMILIE KOBEL	08/27/2015
STEPHANIE FLEURIER	08/17/2015
WALTER VERMEIREN	07/22/2015
DELPHINE MINOUX	07/16/2015
PHILIP DE SMEDT	07/16/2015
CINDY ADAM	07/16/2015
NIKOLAI NESTERENKO	07/15/2015

RECEIVING PARTY DATA

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Street Address:	1 ET 4 AVENUE DE BOIS PREAU
City:	RUEIL-MALMAISON CEDEX
State/Country:	FRANCE
Postal Code:	92852
Name:	TOTAL RESEARCH & TECHNOLOGY FELUY
Name: Street Address:	TOTAL RESEARCH & TECHNOLOGY FELUY ZONE INDUSTRIELLE C
Street Address:	ZONE INDUSTRIELLE C

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14646877

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 703-243-6333

PATENT REEL: 036824 FRAME: 0175

503529044

Email: mail@mwzb.com

Correspondent Name: MILLEN, WHITE, ZELANO & BRANIGAN (MIA)

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Address Line 2: SUITE 1400

Address Line 4: ARLINGTON, VIRGINIA 22201

ATTORNEY DOCKET NUMBER:	PET-3025
NAME OF SUBMITTER:	MICHAIAH COPP
SIGNATURE:	/Michaiah Copp/
DATE SIGNED:	10/19/2015
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 10

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PATENT REEL: 036824 FRAME: 0176

50-CD-866d

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNEES

Title of Invention	PROCESS FOR DEHYDRATION OF ETHANOL TO ETHYLENE AT LOW ENERGY CONSUMPTION
As the below name	ed inventor, I hereby declare that:
This declaration	The attached application, or
is directed to:	United States Application or PCT International Application number 14/646,877 filed on May 22, X 2015.
	ied application was made or authorized to be made by me.
	the original inventor or an original joint inventor of a claimed invention in the application.
AND WHEREAS	
	IFP ENERGIES NOUVELLES 1 ET 4 AVENUE DE BOIS PREAU 92852 RUEIL-MALMAISON CEDEX FRANCE and TOTAL RESEARCH & TECHNOLOGY FELUY Zone Industrielle C 7181 Seneffe BELGIUM d to as the ASSIGNEES, is desirous of acquiring the entire right, title, and interest in and to said invention and
all patent(s) listed	above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, all renewals, reissues, reexaminations and extensions thereof.
ASSIGNOR herel right, title and into and all Letters Pat thereof, and in and to accrue with res invention, SAID a including any and which may be graright to sue for da arising from or ap renewals, reissues representatives, in enjoyed the same,	NITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, by assigns, sells, and transfers to ASSIGNEES, its assigns and legal representatives, the entire and exclusive crest in and to said invention and patent(s), including any and all divisions and continuations thereof, and any tent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions in to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or pect to the filing or securing of patents in the United States and/or any countries foreign thereto concerning said ASSIGNEES, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and patent, all earlier priority rights (U.S. and foreign), divisions and continuations thereof, any and all Letters Patent need therefor, including any and all renewals, reissues, reexaminations and extensions thereof, including the mages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise pertaining thereto, for and during the term or terms of any and all such Letters Patent, including any and all assign and legal as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and if the assignment had not been made. SSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States
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	IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR
I hereby fine or imprisonm	acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by sent of not more than five (5) years, or both.
LEGAL NAME C	
Inventor:	Vincent COUPARD Date: 24-4-605
Signature:	

MILLEN, WHITE, ZELANO & BRANGOAN, P.C.
ATTORIEVS AT LAW
ARLINGTON COURTHOUSE PLAZA
2200 CLARENDON BOULEVARD I SUITE 1400 I ARLINGTON VA 22201
TELEPHONE: 703.243.6333 I FAR; 703.243.6410
EMARL: MAEL@MWZB.COM

DOCKET NO. PET-3025 Effective, September 16, 2012

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNEES

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I hereb	y acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by nent of not more than five (5) years, or both.	
LEGAL NAME		
Inventor:	Natacha TOUCHAIS Date: 08 07 / 2015	
Signature:		

Millen, White, Zelano & Branigan, P.C.
Attorneys at Law
Adlington Courthouse Plaza
2200 Clarendon Boulevard I Suite 14091 Arlington VA 22201
Telephone: 703,243,6331 (Fact 703,243,6410
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DOCKETNO. PET-3025 Effective, September 16, 2012

6588-00.V5

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNEES

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LEGAL NAME O	
Inventor:	Thomas PLENNEVAUX Date: 24/08/2/
Signature:	

Millen, White, Zelang & Bhanigan, P.C. Attorneys at Law Arlington Courthouse Plaza 2200 Clarehdon Boulsvard i Suite 14001 Arlington VA 22201 Telephone: 703.243.6331 [Fax: 703.243.6410 Email: Mail @MWZB.COM

DOCKET NO. PET-3025 Effective, September 16, 2012

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LEGAL NAME (OF INVENTOR	
	Emilie KOBEL Date: 27.08.2015	
	IN THE STATE OF TH	

Millen, White, Zelang & Branigan, P.C. Attorneys at Law Aslington Courthouse Flaza 2200 Clarendon Boulevard | Suite 1400 | Arlington VA 22201 Telephone: 703.243.6331 | Fax: 703.243.6410 Email: Mail@mwzb.com

Signature:

DOCKET NO. PFT-3025 Effective, September 16, 2012

6888-11201

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNEES

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LEGAL NAME OF IN	VENTOR
Inventor: Step	hanie FLEURIER Date: <u>17/08/15</u>
Signature:	Tile

MILLER, WHITE, ZELANG & BRANIGAN, P.C. MILLER, WHITE, ZELANO & BERMOORN, P.C.
ATTORNEYS AT LAW
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TELEPHONE: 703.423.6331 FAX: 703.263.6410
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DOCKET NO. PET-3025 Effective, September 16, 2012

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LEGAL NAME O	OF INVENTOR	
	Walter VERMEIREN Date: 22/07/20/15	

Millen, White, Zelang & Branigan, P.C.
ATTONNEYS AT LAW
ARINGTON COURTHOUSE PLAZA
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TELEPHONE: 103.243.6333 I FAM: 703.243.6410
EMAIL: MAIL@MWZB.COM

Signature:

DOCKET NO. PET-3025 Effective, September 16, 2012

PATENT REEL: 036824 FRAME: 0182

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I believe that I am	the original inventor or an original joint inventor of a claimed invention in the application.
hereinafter referre all patent(s) listed including any and NOW, VASSIGNOR heretright, title and inte and all Letters Pat thereof, and in and to accrue with respinyention, SAID A including any and which may be grown or apprenewals, reissues, representatives, in enjoyed the same, AND AS and foreign countrexecute any other. AND AS any and all division	IFF ENERGIES NOUVELLES 1 ET 4 AVENUE DE BOIS PREAU 92852 RUEL-MALMAISON CEDEX FRANCE and TOTAL RESEARCH & TECHNOLOGY FELUY Zone Industrielle C 7181 Seneffe BELGIUM d to as the ASSIGNEES, is desirous of acquiring the entire right, title, and interest in and to said invention and above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, all renewals, reissues, reexaminations and extensions thereof. WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, by assigns, sells, and transfers to ASSIGNEES, its assigns and legal representatives, the entire and exclusive rest in and to said invention and patent(s), including any and all divisions and continuations thereof, and any ent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or sect to the filing or securing of patents in the United States and/or any countries foreign thereto concerning said SSIGNEES, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and patent, and extensions thereof, including any and all cartier priority rights (U.S. and foreign), divisions and continuations thereof, including the mages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise poetaning thereto, for and during the term or terms of any and all such Letters Patent, including any and all recevaminations and extensions thereof, for the use and benefit of ASSIGNEES and its assigns and legal as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and if the assignment had not been made. SSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States less for said invention and assign the same to said ASSIGNEES, its assigns and legal representatives and to papers
	ersigned hereby grant(s) the law firm of Millen. White, Zelano & Branigan, P.C. the power to insert on this ation which may be necessary or desirable in order for the United States Patent and Trademark Office to s document.
	IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR
fine or imprisonme	acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by ent of not more than five (5) years, or both.
LEGAL NAME O	
Inventor:	elphine MINOUX Date: 16.07.2015
Signature:	

Millen, White, Zelano & Branigan, P.C. Attorneys at Law Aleinston Codethouse Plaza 2200 Clarendon Boglevard i Scite 1400 i Arlington Va 22201 Telephones: 703,243,6333 i Fax: 703,243,6410 Email: Marl@MWZ8.COM

DOCKET NO. PET-3025 Effective, September 16, 2012

PATENT REEL: 036824 FRAME: 0183

F. 1350-75

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNEES

Title of Invention	PROCESS FOR DEHYDRATION OF ETHANOL TO ETHYLENE AT LOW ENERGY CONSUMPTION	
As the below nam	led inventor, I hereby declare that:	
This declaration	The attached application, or	
is directed to:	United States Application or PCT International Application number 14/646,877 filed on May 22, X 2015.	
The above-identif	ied application was made or authorized to be made by me.	
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.		
AND WHEREAS		
	IFP ENERGIES NOUVELLES 1 ET 4 AVENUE DE BOIS PREAU 92852 RUEIL-MALMAISON CEDEX FRANCE and	
	TOTAL RESEARCH & TECHNOLOGY FELUY Zone Industrielle C	
	7181 Seneffe	
hereinafter referred to as the ASSIGNEES, is desirous of acquiring the entire right, title, and interest in and to suid invention and all patent(s) listed above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, 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 ASSIGNEES, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and patent(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 ASSIGNEES, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and patent, 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, including any and all renewals, relssues, reexaminations and extensions thereof, for the use and benefit of ASSIGNEES 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 ASSIGNEES, its assigns and legal representatives and to execute any other papers that may be needed in connection with securing Letters Patents thereon AND ASSIGNOR aut		
	IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR	
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.		
LEGAL NAME (Philip DE SMEDT 4 Date: 16/7/15	
N. Constitution of the Con	1 a Caroli	
Signature:	MILLEN, WRITE, ZELANG & BRANGAN, P.C. ANTORNEYS AT LAW AMEINATION COURTIOUSE PLAZA 2200 CLARENDEN BOULEVARD I SMITE 1409 I ARLINGTON VA 22201 TELEPHOVE: 793, 243,6438 I FAX: 703, 241,6410	

EMAIL: MAIL@MWZB.COM

DOCKET NO. PET-3025 Effective, September 16, 2012

PATENT REEL: 036824 FRAME: 0184

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNEES Title of PROCESS FOR DEHYDRATION OF ETHANOL TO ETHYLENE AT LOW ENERGY CONSUMPTION Invention As the below named inventor. I hereby declare that: This declaration The attached application, or United States Application or PCT International Application number 14/646,877 filed on May 22, is directed to: The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. AND WHEREAS IFP ENERGIES NOUVELLES 1 ET 4 AVENUE DE BOIS PREAU 92852 RUEIL-MALMAISON CEDEX FRANCE and TOTAL RESEARCH & TECHNOLOGY FELUY Zone Industrielle C 7181 Seneffe BELGIUM hereinafter referred to as the ASSIGNEES, is desirous of acquiring the entire right, title, and interest in and to said invention and all patent(s) listed above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, 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 ASSIGNEES, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and patent(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 ASSIGNEES, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and patent, 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 wising from or appertaining thereto, for and during the term or terms of any and all such Letters Patent, including any and all renewals, reissues, reexaminations and extensions thereof, for the use and benefit of ASSIGNEES 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 ASSIGNEES, its assigns and legal representatives and to execute any other papers that may be needed in connection with securing Letters Patents thereon. AND ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on any and all divisions and continuations thereof, to ASSIGNEES, 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 I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Millen, White, Zelaro & Branigan, P.C. Attorneys at Law Arlington Courthouse Plaza 2250 Clabenkin Boulevard i Suite 14001 Arlington VA 22201 Telephone: 70, 243 6331 Fb., 793, 243,8410 Email: Mail@mwzb.com

Date:

LEGAL NAME OF INVENTOR

Cindy ADAM

Inventor:

Signature:

DOCKET NO. PET-3025 Effective, September 16, 2012

PATENT **■** REEL: 036824 FRAME: 0185

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNEES

Title of Invention	PROCESS FOR DEHYDRATION OF ETHANOL TO ETHYLENE AT LOW ENERGY CONSUMPTION	
As the below named inventor, I hereby declare that:		
This declaration	The attached application, or	
is directed to:	United States Application or PCT International Application number 14/646.877 filed on May 22. X 2015.	
The above-identified application was made or authorized to be made by me.		
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.		
AND WHEREAS		
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	BELGIUM	
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	IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR	
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.		
LEGAL NAME	OF INVENTOR	
	Nikolai NESTERENKO Date: 15-07-2015	

Millen, White, Zelaho & Branigan, P.C.
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Arlington Courthouse Plaza
2300 Clarendon Boulsvard | Suffe 1400 I Arlington va 2220)
Telephone; 703,243,6410
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DOCKET NO. PET-3835 Effective, September 16, 2012

PATENT REEL: 036824 FRAME: 0186

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RECORDED: 10/19/2015

Signature: