505298812 01/28/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5345589

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
REJANE DASTILLUNG	12/20/2018
SOPHIE COUDERC	12/19/2018
OLIVIER THINON	12/19/2018

RECEIVING PARTY DATA

Name:	IFP ENERGIES NOUVELLES
Street Address:	1 & 4 AVENUE DU BOIS-PREAU
City:	RUEIL-MALMAISON
State/Country:	FRANCE
Postal Code:	92852
Name:	COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN
Street Address:	12 COURS SABLON
City:	CLERMONT-FERRAND
State/Country:	FRANCE
Postal Code:	63000

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16314194

CORRESPONDENCE DATA

Fax Number: (703)243-6410

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
Email: mail@mwzb.com

Correspondent Name: MILLEN, WHITE, ZELANO & BRANIGAN-AEW

Address Line 1: 2200 CLARENDON BLVD.

Address Line 2: SUITE 1400

Address Line 4: ARLINGTON, VIRGINIA 22201

ATTORNEY DOCKET NUMBER: PET-3306

NAME OF SUBMITTER: ASHLEY BROOKSHIRE

PATENT REEL: 048153 FRAME: 0759

SIGNATURE:	/Ashley Brookshire/
DATE SIGNED:	01/28/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 3	

source=EXECUTED_DUAL_DEC_ASSIGNMENT#page1.tif source=EXECUTED_DUAL_DEC_ASSIGNMENT#page2.tif source=EXECUTED_DUAL_DEC_ASSIGNMENT#page3.tif

> PATENT REEL: 048153 FRAME: 0760

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	METHOD FOR THE PRODUCTION OF BUTADIENE FROM ETHANOL, INCORPORATING EXTRACTIVE DISTILLATION	•••
As the below nan	ned inventor, I hereby declare that:	
This declaration	The attached application, or	
	United States Application or PCT International Application number PCT/EP2017/065742 filed on	
is directed to:	Nune 26, 2017	
The above-identit	fied application was made or authorized to be made by me.	
I believe that I an	n the original inventor of an original joint inventor of a claimed invention in the application.	
AND WHEREAS	5	
	IFP Energies nouvelles	
	1 & 4 Avenue du Bois-Preau 92852, Rueil-Malmaison, France	
	Azoso, tubil militared, c. aso	
	COMPAGNIE GENERALE DES	
	ETABLISSEMENTS MICHELIN 12 cours Sablon	
	63000, Clermont-Ferrand, France	
hereinafter referre	ed to as the ASSIGNEES, is desirous of acquiring the entire right, title, and interest in and to said invention and	
all patent(s) listed	I above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, I all renewals, reissues, reexaminations and extensions thereof.	
incidding any and	tale to the ward, to so the manufacture and to manufacture and the	
ASSIGNOR here right, title and int and all Letters Pathereof, and in an to accrue with resinvention, SAID including any and which may be graright to sue for darising from or aprenewals, reissue representatives, in enjoyed the same AND A and foreign count execute any other AND A any and all division that are una assignment information and interest.	WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, thy assigns, solls, and transfers to ASSIGNEES, its assigns and legal representatives, the entire and exclusive erest in and to said invention and patent(s), including any and all divisions and continuations thereof, and any sent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions and to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or spect to the filing or securing of patents in the United States and/or any countries foreign thereto concerning sair ASSIGNEES, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and patent, it all earlier priority rights (U.S) and foreign), divisions and continuations thereof, any and all Letters Patent anted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, including the amages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise operationing thereto, for and during the term or terms of any and all such Letters Patent, including any and all so, reexaminations and extensions thereof, for the use and benefit of ASSIGNEES and its assigns and legal in as ample and beneficial a manner to all intents and purposes as the ASSIGNEES and its assigns and legal in 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. ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States tures for said invention and to assign the same to said ASSIGNEES, its assigns and legal representatives and to repapers that may be needed in connection with securing Letters Patents thereon. ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on one and continuations thereof, to ASSIGNEES, its assigns a	1
properly record th	an accument.	
fine or imprisonn	IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR 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. I consent to the publication, and retention for purposes of obtaining formation herein.	ġ
LEGAL NAME (OF INVENTOR	
Inventor: I	OF INVENTOR Rejane DASTILLUNG Date: 20/12/2012	
Signature:	. 1/1/4	

MILLEN, WHITE, ZELANO & BRANIGAN, P.C. ATTORNEYS AT LAW ARLINGTON COURTHGUSE PLAZA 2200 CLARENDON BOULEVARD | SUITE 1400 | ARLINGTON VA 22201 TELEPHONE: 703.243.63331Fax: 703.243.6410

EMAIL; MAIL@MW2B.COM

PETC-3306

PATENT REEL: 048153 FRAME: 0761

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	METHOD FOR THE PRODUCTION OF BUTADIENE FROM ETHANOL, INCORPORATING EXTRACTIVE DISTILLATION
As the below nan	ed inventor, I hereby declare that:
This declaration	The attached application, or
No silve e di cali	United States Application or PCT International Application number PCT/EP2017/065742 filed on June 26, 2017
is directed to:	
	red 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 I & 4 Avenue du Bois-Preau
	92852, Rueil-Malmaison, France
	COMPAGNIE GENERALE DES
	ETABLISSEMENTS MICHELIN
	12 cours Sablon
havainaftar rafarri	63000, Clermont-Ferrand, France and 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.
* *	
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 filling 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, 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. I consent to the publication, and retention for purposes of obtaining a patent, of the information herein.	
LEGAL NAME Inventor:	OF INVENTOR Sophic COUDERC Date: 19/12/2018
Signature:	S. Couderc

Millen, White, Zelano & Branigan, P.C.
Attorneys at Law
Arlington Courthouse Plaza
2200 Clarendon Boulevard | Suite 1400 | Arlington V A 22201
Telephone: 703,243,6333 | Fax: 703,243,6410
Email: mail@mwzb.com

PET-3306

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	METHOD FOR THE PRODUCTION OF BUTADIENE FROM ETHANOL, INCORPORATING EXTRACTIVE DISTILLATION
As the below nan	ned inventor, I hereby declare that:
This declaration	The attached application, or
is directed to:	United States Application or PCT International Application number PCT/EP2017/065742 filed on June 26, 2017
The above-identit	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.
all patent(s) listed including any and NOW, ASSIGNOR here right, title and int and all Letters Pathereof, and in an to accrue with resinvention, SAID including any and including any arright to sue for datarising from or a prenewals, reissuer representatives, in	IFP Energies nouvelles 1 & 4 Avenue du Bois-Preau 92852, Rueil-Mahmaison, France COMPAGNIE GENER ALE DES ETABLISSEMENTS MICHELIN 12 cours Sabhon 63000, Clermont-Ferrand, France de to as the ASSIGNEES, is desirous of acquiring the entire right, title, and interest in and to said invention and labove, 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 erest 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 do 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 midd 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 as a sample 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.
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. I consent to the publication, and retention for purposes of obtaining a patent, of the information herein.	
LEGAL NAME O	
Inventor: C	Disvier THINON Date: A9 1222 10
Signature:	- Chie

Millen, White, Zelano & Branigan, P.C.
Attorneys at Law
Arlington Courthouse Plaza
2200 Clarendon Boulevard (Suite 1400) Arlington VA 22201
Telephone: 703.243.6333 (Fax: 703.243.6410
Email: mail:@mwzb.com

PET-3308

PATENT REEL: 048153 FRAME: 0763

RECORDED: 01/28/2019