PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4905600

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SERGEY IVANOV	04/04/2018
CLAIRE RANNOUX	04/04/2018
ANNE-LISE THUILLIEZ	04/04/2018
ANNE-FRÉDÉRIQUE SALIT	04/04/2018

RECEIVING PARTY DATA

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:	15741914

CORRESPONDENCE DATA

Fax Number: (844)670-6009

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: 202-457-0160

Email: tsmith@dickinsonwright.com
Correspondent Name: DICKINSON WRIGHT PLLC
Address Line 1: 1825 EYE STREET N.W.

Address Line 2: SUITE 900

Address Line 4: WASHINGTON, D.C. 20006

ATTORNEY DOCKET NUMBER:	338180-01385
NAME OF SUBMITTER:	KIMBERLY M. SLAVEN
SIGNATURE:	/KIMBERLY M. SLAVEN/
DATE SIGNED:	04/09/2018

Total Attachments: 4

source=ASSIGNMENT#page1.tif source=ASSIGNMENT#page2.tif

PATENT REEL: 045478 FRAME: 0720

504858861

source=ASSIGNMENT#page3.tif source=ASSIGNMENT#page4.tif

> PATENT REEL: 045478 FRAME: 0721

Attorney Docket No.: 338180-01385 Appln, No. 15/741,914 **ASSIGNMENT** Page 1 of 2

1702

GENEVE

Suisse

ASSIGNMENT (JOINT)

THIS ASSIGNMENT, by (1) Sergey IVANOV, (2) Claire RANNOUX, (3) Anne-Lise THUILLIEZ, and (4) Anne-Frédérique SALIT, whose addresses are, respectively, (1) Manufacture Française des Pneumatiques Michelin, Place des Cames-Déchaux - DGD/PI - F35/Ladoux, 63040 Clermont-Ferrand Cedex 9, FRANCE, (2) Reneveyres, 5, Morges CH-1110; SWITZERLAND, (3) Manufacture Francaise Cue. And Civil des Pneumatiques Michelin, Place des Carmes-Déchaux - DGD/PI - F35/Ladoux, 63040 Clermont. CARTERET Ferrand Cedex 9, FRANCE, and (4) Manufacture Francaise des Pneumatiques Michelin, Place des Carmes-Déchaux - DGD/PI - F35/Ladoux, 63040 Clermont-Ferrand Cedex 9, FRANCE, (hereinafter referred to as "the Assignor"), respectively witnesseth:

WHEREAS, the Assignor has invented certain new and useful inventions and improvements in

1,3-DIPOLAR COMPOUND BEARING A PHOSPHORUS-CONTAINING GROUP AND A DIPOLE CONTAINING A NITROGEN ATOM

set forth in an application for Letters Patent of the United States, which is a

Non-provisional application

and

CR

- (a) [X] bearing Application No. <u>15/741,914</u> and filed on <u>04 January 2018</u>
- having an oath or declaration executed on even date herewith prior to filing (b) of application
- having an oath or declaration executed on a different date than this Assignment; (c) []

WHEREAS, COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, a corporation duly organized under and pursuant to the laws of France, and having a principal place of business at 12 Cours Sablon, 63000 Clermont-Ferrand, FRANCE, (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application,

and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon, as well as any rights to sue for past infringement,

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignor has sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, their successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Properly, the same to be held and enjoyed by the Assignee, for its own use and behoof and the use and behoof of their successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignor had this sale and assignment not been made;

1

Altorney Docket No.; 338180-01385

Appln. No. 15/741,914 ASSIGNMENT Page 2 of 2

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, their successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignor is the sole and lawful owner of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, their successors, legal representatives, and assign that the Assignor will, whenever counsel of the Assignee, or the counsel of their successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference, ex parte reexamination, post grant opposition (if applicable), and inter partes review proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, their successors, legal representatives, and assigns, but at the cost and expense of the Assignee, their successors, legal representatives, and assigns;

AND the Assignor hereby authorizes and requests the attorneys of Dickinson Wright PLLC to insert in the spaces provided above the title of the invention, filing date, application number, and attorney's docket number of said application when known.

AND the Assignor hereby requests the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said invention, the Letters Patent to be issued for the sole use and behoof of the Assignee, their successors, legal representatives, and assigns.

DATE: April 04, 2018	Sergey IVANOV	_
-DATE:-	- Clairo PANNOUX	_
DATE:	Anno Lico THUILLIEZ.	_
-DATE:	Anno Frédériquo SALIT	_

Attorney Docket No.: 338180-01385 Appln, No. 15/741,914 ASSIGNMENT Page 2 of 2

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, their successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignor is the sole and lawful owner of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, their successors, legal representatives, and assign that the Assignor will, whenever counsel of the Assignee, or the counsel of their successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference, ex parte reexamination, post grant opposition (if applicable), and inter partes review proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, their successors, legal representatives, and assigns, but at the cost and expense of the Assignee, their successors, legal representatives, and assigns;

AND the Assignor hereby authorizes and requests the attorneys of Dickinson Wright PLLC to Insert In the spaces provided above the title of the Invention, filing date, application number, and attorney's docket number of said application when known.

AND the Assignor hereby requests the Commissioner of Patents to Issue any and all sald Letters Patent of the United States to the Assignee as the Assignee of sald invention, the Letters Patent to be issued for the sole use and behoof of the Assignee, their successors, legal representatives, and assigns.

-DATE:	Sorgey-IVANOV—
DATE: April 04, 2018	Claire RADNOUX
- DATE:-	Anne Lice THUILLIEZ
-DATE:	— Anne-Frédérique SALIT

Attorney Docket No.: 338180-01385 Appln. No. 15/741,914 ASSIGNMENT Page 2 of 2

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, their successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignor is the sole and lawful owner of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, their successors, legal representatives, and assign that the Assignor will, whenever counsel of the Assignee, or the counsel of their successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference, ex parte reexamination, post grant opposition (if applicable), and inter partes review proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, their successors, legal representatives, and assigns, but at the cost and expense of the Assignee, their successors, legal representatives, and assigns;

AND the Assignor hereby authorizes and requests the attorneys of Dickinson Wright PLLC to insert in the spaces provided above the title of the invention, filing date, application number, and attorney's docket number of said application when known.

AND the Assignor hereby requests the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said invention, the Letters Patent to be issued for the sole use and behoof of the Assignee, their successors, legal representatives, and assigns.

DATE:	- Sergey IVANOV-
-DATE:	Claire RANNOUX
DATE: April 04, 2018	Anne-Lise THUILLIEZ
DATE: April 04, 2018	Anne-Frédérique SALIT

2