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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5096262

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RHALID AKKARI	11/14/2016
LUKE JONATHAN ALVEY	11/07/2016
XAVIER MARIE BOCK	11/14/2016
ELSA DE LEMOS	11/07/2016
ROMAIN LUC MARIE GOSMINI	11/14/2016
CHRISTOPHER GAËTAN HOUSSEMAN	11/08/2016
JEAN MICHEL LEFRANCOIS	11/07/2016
GREGORY JOHN ROBERT NEWSOME	11/07/2016
NURIA MERAYO MERAYO	11/14/2016
MATHIEU RAFAËL PIZZONERO	11/09/2016
BÉRANGER DUTHION	11/07/2016
NICOLAS DESROY	11/07/2016

RECEIVING PARTY DATA

Name:	GALAPAGOS SASU
Street Address:	102 AVENUE GASTON ROUSSEL
City:	ROMAINVILLE
State/Country:	FRANCE
Postal Code:	93230

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15843917

CORRESPONDENCE DATA

(414)271-3552 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: 414-277-5000

Email: melanie.brunow@quarles.com **Correspondent Name: QUARLES & BRADY LLP**

Address Line 1: 411 EAST WISCONSIN AVENUE

Address Line 4: MILWAUKEE, WISCONSIN 53202-4426

PATENT -

REEL: 046789 FRAME: 0329 505049508

ATTORNEY DOCKET NUMBER:	154561.00257_ABV12239C1
NAME OF SUBMITTER:	MELANIE A. BRUNOW
SIGNATURE:	/melanie a brunow/
DATE SIGNED:	08/14/2018
Total Attachments: 9	
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PATENT REEL: 046789 FRAME: 0330

ASSIGNMENT AGREEMENT

AGREEMENT by and between:

Rhalid AKKARI, a citizen of France, residing at c/o Galapagos SASU, 102 Avenue Gaston Roussel, 93230 Romainville, France; and

Luke Jonathan ALVEY, a citizen of United States of America, residing at c/o Galapagos SASU, 102 Avenue Gaston Roussel, 93230 Romainville, France; and

Xavier Marie BOCK, a citizen of France, residing at c/o Galapagos SASU, 102 Avenue Gaston Roussel, 93230 Romainville, France; and

Elsa DE LEMOS, a citizen of France, residing at c/o Galapagos SASU, 102 Avenue Gaston Roussel, 93230 Romainville, France; and

Romain Luc Marie GOSMINI, a citizen of France, residing at c/o Galapagos SASU, 102 Avenue Gaston Roussel, 93230 Romainville, France; and

Christopher Gaëtan HOUSSEMAN, a citizen of France, residing at c/o Galapagos SASU, 102 Avenue Gaston Roussel, 93230 Romainville, France; and

Jean Michel LEFRANÇOIS, a citizen of France, residing at c/o Galapagos SASU, 102 Avenue Gaston Roussel, 93230 Romainville, France; and

Gregory John Robert NEWSOME, a citizen of France, residing at c/o Galapagos SASU, 102 Avenue Gaston Roussel, 93230 Romainville, France; and

Nuria MERAYO MERAYO, a citizen of Spain, residing at c/o Galapagos SASU, 102 Avenue Gaston Roussel, 93230 Romainville, France; and

Mathieu Rafaël PIZZONERO, a citizen of France, residing at c/o Galapagos SASU, 102 Avenue Gaston Roussel, 93230 Romainville, France; and

Béranger DUTHION, a citizen of France, residing at c/o Galapagos SASU, 102 Avenue Gaston Roussel, 93230 Romainville, France; and

Pieter Isabelle Roger CLAES, a citizen of Belgium, residing at c/o Galapagos NV, Generaal De Wittelaan L11/A3, 2800 Mechelen, Belgium; and

Koen Karel JANSEN, a citizen of Belgium, residing at c/o Galapagos NV, Generaal De Wittelaan L11/A3, 2800 Mechelen, Belgium; and

1

PATENT REEL: 046789 FRAME: 0331 Oscar MAMMOLITI, a citizen of Italy, residing at c/o Galapagos NV, Generaal De Wittelaan L11/A3, 2800 Mechelen, Belgium; and

Christel Jeanne Marie MENET, a citizen of France, residing at c/o Confo Therapeutics, Pleinlaan 2, Building E, 7th floor, E7.6, 1050 Brussels, Belgium; and

Adeline Marie Elise PALISSE, a citizen of France, residing at c/o Galapagos NV, Generaal De Wittelaan L11/A3, 2800 Mechelen, Belgium;

Steven Emiel VAN DER PLAS, a citizen of Belgium, residing at c/o Galapagos NV, Generaal De Wittelaan L11/A3, 2800 Mechelen, Belgium;

Nicolas DESROY, a citizen of France, residing at c/o Galapagos SASU, 102 Avenue Gaston Roussel, 93230 Romainville, France;

the foregoing parties alternatively and collectively denominated herein as "the Inventors"; and

Galapagos SASU, a company incorporated under French law with an office at 102 Avenue Gaston Roussel, 93230 Romainville, France;

all of the above parties denominated herein individually and collectively as "Assignors"; and

Galapagos NV, a company incorporated under Belgian law with an office at Generaal De Wittelaan L11/A3, 2800 Mechelen, Belgium;

denominated herein as "Assignee";

WHEREAS, the Inventors have invented certain new and useful improvements in

N-SULFONYLATED PYRAZOLO[3,4-b]PYRIDIN-6-CARBOXAMIDES AND METHOD OF USE

(hereinafter called "the Invention") for which Provisional Applications for Letters Patents in the United States were filed on 9 October 2015 and on 18 March 2016 and were accorded respectively U.S. Serial No. 62/239,647 and 62/309,794 ("the US Provisional Applications"); and

WHEREAS, all of the Inventors' right, title and interest in the US Provisional Applications has been assigned to Galapagos NV by assignments recorded at the USPTO on 2 February 2016 under Reel 037649/Frame 0240 and on 30 June 2016 under Reel 039058/Frame 0434; and

WHEREAS, an Application for Letters Patent in the United States was filed for the Invention on 7 October 2016 which was accorded U.S. Serial No. 15/287,911 ("the US Non-Provisional Application"); and

WHEREAS, Assignor Galapagos SASU holds certain right, title and interest in, to and under said Invention through its employment of Inventors Rhalid AKKARI, Luke Jonathan ALVEY, Xavier Marie BOCK, Elsa DE LEMOS, Romain Luc Marie GOSMINI, Christopher Gaëtan HOUSSEMAN, Jean Michel LEFRANÇOIS, Gregory John Robert NEWSOME, Nuria MERAYO MERAYO, Mathieu Rafaël PIZZONERO, Béranger DUTHION and Nicolas DESROY; and

WHEREAS, Inventors Rhalid AKKARI, Luke Jonathan ALVEY, Xavier Marie BOCK, Elsa DE LEMOS, Romain Luc Marie GOSMINI, Christopher Gaëtan HOUSSEMAN, Jean Michel LEFRANÇOIS, Gregory John Robert NEWSOME, Nuria MERAYO MERAYO, Mathieu Rafaël PIZZONERO, Béranger DUTHION and Nicolas DESROY desire by this document, to confirm the ownership of their entire right, title and interest in, to and under said Invention and the US Non-Provisional Application by Assignor Galapagos SASU; and

WHEREAS, Assignee holds certain right, title and interest in, to and under said Invention through its employment of Inventors Pieter Isabelle Roger CLAES, Koen Karel JANSEN, Oscar MAMMOLITI, Christel Jeanne Marie MENET, Adeline Marie Elise PALISSE and Steven Emiel VAN DER PLAS; and

WHEREAS, Inventors Pieter Isabelle Roger CLAES, Koen Karel JANSEN, Oscar MAMMOLITI, Christel Jeanne Marie MENET, Adeline Marie Elise PALISSE and Steven Emiel VAN DER PLAS desire by this document, to confirm the ownership of their entire right, title and interest in, to and under said Invention and the US Non-Provisional Application by Assignee; and

WHEREAS, Assignee is desirous of obtaining the entire right, title and interest in, to and under the said Invention and the US Non-Provisional Application;

NOW, THEREFORE, for other good and valuable consideration, the receipt of which is hereby acknowledged,

(i) the said

Pieter Isabelle Roger CLAES, Koen Karel JANSEN, Oscar MAMMOLITI, Christel Jeanne Marie MENET, Adeline Marie Elise PALISSE and Steven Emiel VAN DER PLAS

confirm that we have sold, assigned, transferred and set over, and to the extent not already done so, by these presents do hereby sell, assign, transfer and set over, to the said

Assignee,

its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said Invention, the said US Non-Provisional Application and all divisions, renewals, and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for said Invention in any country or countries foreign to the United States, including the right

to claim priority under the terms of any appropriate International Convention based upon said US Non-Provisional Application for Letters Patent of the United States, and all Letters Patent which may be granted from said Invention in any country or countries foreign to the United States and extensions, renewals and reissues thereof, and including the right to sue for past infringement; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States, whose duty is to issue patents on applications as aforesaid, to issue all Letters Patent for said Invention to the said

Assignee,

it successors, legal representatives and assigns, in accordance with the terms of this assignment agreement;

(ii) the said

Rhalid AKKARI, Luke Jonathan ALVEY, Xavier Marie BOCK, Elsa DE LEMOS, Romain Luc Marie GOSMINI, Christopher Gaëtan HOUSSEMAN, Jean Michel LEFRANÇOIS, Gregory John Robert NEWSOME, Nuria MERAYO MERAYO, Mathieu Rafaël PIZZONERO, Béranger DUTHION and Nicolas DESROY

confirm that we have sold, assigned, transferred and set over, and to the extent not already done so, by these presents do hereby sell, assign, transfer and set over, to the said

Galapagos SASU,

its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said Invention, the said US Non-Provisional Application and all divisions, renewals, and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for said Invention in any country or countries foreign to the United States, including the right to claim priority under the terms of any appropriate International Convention based upon said US Non-Provisional Application for Letters Patent of the United States, and all Letters Patent which may be granted from said Invention in any country or countries foreign to the United States and extensions, renewals and reissues thereof, and including the right to sue for past infringement; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States, whose duty is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said

Galapagos SASU,

its successors, legal representatives and assigns, in accordance with the terms of this assignment agreement; and

(iii) the said

Galapagos SASU,

confirms that it has sold, assigned, transferred and set over, and to the extent not already done so by these presents hereby sells, assign, transfers and sets over, to the said

Assignee,

its successors, legal representatives and assigns, the entire right, title and interest in, to and under the said Invention, the said US Non-Provisional Application and all divisions, renewals, and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for said Invention in any country or countries foreign to the United States, including the right to claim priority under the terms of any appropriate International Convention based upon said US Non-Provisional Application for Letters Patent of the United States, and all Letters Patent which may be granted from said Invention in any country or countries foreign to the United States and extensions, renewals and reissues thereof, and including the right to sue for past infringement; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States, whose duty is to issue patents on applications as aforesaid, to issue all Letters Patent for said Invention to the said

Assignee,

its successors, legal representatives and assigns, in accordance with the terms of this assignment agreement.

AND THE ASSIGNORS HEREBY further covenant and agree that we will, upon reasonable request of said

Assignee,

communicate to the said

Assignee.

its successors, legal representatives and assigns, any fact known to us respecting said Invention, and testify in any legal proceeding, sign all lawful papers, execute all divisions, continuing and reissue applications, make all rightful oaths and generally do everything reasonable to aid the said

Assignee,

its successors, legal representatives and assigns, to obtain and enforce proper protection under patent laws for said Invention in the United States, all at the cost and expense of the said

Assignee

5

PATENT REEL: 046789 FRAME: 0335 IN TESTIMONY WHEREOF, the said Rhalid AKKARI, Luke Jonathan ALVEY, Xavier Marie BOCK, Elsa DE LEMOS, Romain Luc Marie GOSMINI, Christopher Gaëtan HOUSSEMAN, Jean Michel LEFRANÇOIS, Gregory John Robert NEWSOME, Nuria MERAYO MERAYO, Mathieu Rafaël PIZZONERO, Béranger DUTHION, Nicolas DESROY, Pieter Isabelle Roger CLAES, Koen Karel JANSEN, Oscar MAMMOLITI, Christel Jeanne Marie MENET, Adeline Marie Elise PALISSE, Steven Emiel VAN DER PLAS, Galapagos SASU and Galapagos NV have executed this assignment agreement on the date opposite each signature.

This assignment agreement may be executed in counterparts.

Date Nay 14, 2016	A Comment of the comm
	Rhalid AKKARI
Date Nov. 7, 20/6	Luke Jonathan ALVEY
Date <u>Nov 14 , UB</u>	Xavier Marie BOCK
Date 1/0/7, 206	Elsa DE LEMOS
Date <u>No.5 14, 2016</u>	Romain Luc Marie GOSMINI
Date_Nov 08 , 2016	Christopher Qaëjan HOUSSEMAN
Date Na 1 7 2016	<i>511.</i>
Date Nov 7 , 2016	Jean Michel EEFRANÇOIS Gregory John Robert NEWSOME

Date 14.11. 2016	Mary-	
	Nuria MERAYO MERAYO	
Date 16/0/03/4/2016	Mathica Rafael PIZZONERO	
Date 7 November 2016	Beranger DUTHION	
Date 7th & November 2016	Nicolas DESROY	
Date <u>19 1/2011</u>	Pieter Isabelle Roger CLAES	
Date <u>2900V16</u>	Kota-Karel HANSEN	***************************************
Date <u> </u>	Oscar MAMMOLITI	
Date	Christel Jeanne Marie MENET	
Date <u>25 Nov 16</u>	Adeline Marie Elise PALISSE	+N
Date <u>23 NOV 201</u> 5	Status Emist VN DED DI AS	

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Date	Nuria MERAYO MERAYO	
Date	Mathieu Rafaël PIZZONERO	
Date	Béranger DUTHION	
Date	Nicolas DESROY	
Date	Pieter Isabelle Roger CLAES	
Date	Koen Karel JANSEN	
Date	Oscar MAMMOLITI	
Date <u>10 Wirembe</u> r 2016	Christel-Jeanne Marie MENET	
Date	Adeline Marie Elise PALISSE	
Date	Stoven Emini VAN DED DI AS	

Date 8 Nec 2016

Galapagos SASU

Date 19 Dec 2014

Galapágos

By: And Hochemo Title: Senta VI Corporate Development