PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7807910

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SABINE DESSET-BRETHES	01/08/2014
REGIS FRELON	01/14/2014
STEFAN HIRSCH	01/09/2014

RECEIVING PARTY DATA

Name:	NOVARTIS PHARMA AG
Street Address:	POSTFACH 4002
City:	BASEL
State/Country:	SWITZERLAND

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	18111059

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.

Email: Paralegal koch@CPAGlobal.com

Correspondent Name: NOVARTIS PHARMA AG

Address Line 1: POSTFACH 4002

Address Line 4: BASEL, SWITZERLAND 60532

ATTORNEY DOCKET NUMBER:	MX-2012-P-0489-US-CON[3]
NAME OF SUBMITTER:	CHESHTA BHUTANI
SIGNATURE:	/CHESHTA BHUTANI/
DATE SIGNED:	02/22/2023

Total Attachments: 10

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PATENT 507760776 REEL: 062760 FRAME: 0419

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PATENT REEL: 062760 FRAME: 0420 Patent Case PAT055124

ASSIGNMENT

This Assignment Agreement is entered into by and between

Sabine DESSET-BRÈTHES citizen of France c/o Novartis Pharma AG

Postfach 4002 Basel SWITZERLAND

Regis FRELON citizen of France c/o Novartis Pharma AG

Postfach 4002 Basel SWITZERLAND

Stefan HIRSCH citizen of Germany c/o Novartis Pharma AG

Postfach 4002 Basel SWITZERLAND

(hereinafter "Inventor(s)"), and Novartis Pharma AG, Postfach, 4002 Basel, Switzerland, a company organized under the laws of Switzerland.

For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, I/We the Inventor(s) do hereby confirm and agree that, by operation of law and/or contract, and/or by the fulfillment of any and all legal requirements regarding the transfer of employee inventions in my/our country of employment, Novartis Pharma AG is the true and lawful owner of all right, title and interest in all inventions, discoveries, patents/utility models, applications, and rights described in paragraphs (1) through (8) below.

If, however, under the laws of any country, I/We the Inventor(s) nevertheless have any ownership right, title or interest in any of the items described herein (which I/We do not believe to be the case and make no claim in or to), for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, I/We the Inventor(s) do hereby sell, assign and transfer to Novartis Pharma AG and its successors, assigns and legal representatives (hereinafter referred to collectively as the "ASSIGNEE"), all of our right, title and interest for all countries of the world in and to

(1) all of our inventions and discoveries described in the provisional or non-provisional patent, utility model, or other application(s) entitled

Dispensing Device

and filed in the European Office on 11 May 2012 and accorded Application Number EP12167791.8 and/or filed as a PCT International Application on 09 May 2013 and accorded International Patent Application Number PCT/EP2013/059691 and/or filed in the United States

PATENT REEL: 043752 FRAME: 0221

PATENT

Patent and Trademark Office on and accorded Application Number and on and accorded Application Number

- (2) the application(s) identified in paragraph (1), and all applications claiming priority from such application(s), directly or indirectly, including all national stages of any international patent application(s);
- (3) the right to file patent, utility model, or other applications on any invention or discovery disclosed in any of the applications identified in paragraphs (1) and (2), including the right to file such applications on said inventions and discoveries in the names of ASSIGNEE or their designees or in our/my name, at ASSIGNEE's election and in accordance with applicable law in all countries and regions; and the right to file all patent, utility model, or other applications in all countries and regions claiming the priority of any of the provisional or nonprovisional application(s) identified in paragraphs (1) or (2);
- (4) all rights to claim priority from any of the applications referred to in paragraphs (1), (2), and (3) or from any application from which any of the applications referred to in paragraphs (1), (2) and (3) claim priority in all countries and regions under the Paris Convention for the Protection of Industrial Property, the WTO GATT TRIPS Agreement, the Inter-American Convention relating to Inventions, Patents, Designs, and Industrial Models and all other international agreements to which the United States now is or hereafter becomes a signatory and, if the United States patent application is a provisional patent application, under 35 USC 119(e);
- (5) all continuations, continuations-in-part, and divisionals of any United States patent application(s) or international patent application(s) designating the United States, any national stages of any international application(s), and any other patent application(s) described in paragraphs (1) through (4) hereof, including further continuations, continuations-in-part, and divisionals such as, but not limited to, continuations of continuations and continuations of divisionals:
- (6) all patents, utility models, or other grants that issue from any of the applications referred to herein and all rights and remedies associated therewith including the right to sue for and recover past damages and to recover under 35 U.S.C. § 154 (d) or any other law permitting remedies for infringement prior to issuance of the patent;
- (7) all registrations and confirmations of, and importation certificates based upon, one or more of said patents, utility models, or other grants, and applications for such registrations, confirmations and importation certificates and:
- (8) all reissues, renewals and extensions of said patents, utility models, registrations. confirmations and importation certificates, reexamination certificates issued for said patents and supplementary protection certificates based upon said patents and applications for such reissues, renewals, extensions, reexamination certificates and supplementary protection certificates, the

same to be held and enjoyed by said ASSIGNEE to the full ends of the terms for which said patents, utility models, registrations, confirmations, importation certificates, reexamination

> **PATENT REEL: 043752 FRAME: 0222**

> > PATENT

certificates, supplementary protection certificates, reissues, renewals and extensions may be granted, as fully and entirely as the same would have been held and enjoyed by me/us if this sale, assignment and transfer had not been made.

I/We the Inventor(s) hereby authorize ASSIGNEE and their representatives to insert in paragraph (1) of this Assignment the filing date(s) and Application Number(s) of said patent, utility model, or other application(s) when notified thereof.

I/We the Inventor(s) hereby covenant and agree that I/We will, at any time, (i) upon the request, but at the expense, of ASSIGNEE, execute and deliver all documents that may be necessary or desirable to perfect the title to the foregoing inventions and discoveries, applications, patents, utility models, registrations, confirmations, importation certificates, reissues, renewals, extensions, reexamination certificates, supplementary protection certificates, and applications within the scope of (7) and (8), in ASSIGNEE, including the execution and procurement of all further documents evidencing this sale, assignment and transfer as may be necessary or desirable for recording the same in the patent office or other intellectual property office, agency or the like of any country or region, (ii) upon the request, but at the expense, of ASSIGNEE execute all additional applications within the scope of paragraphs (1) through (6) and all applications within the scope of (7) or (8), and (iii) make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein, without further compensation, but at the expense of ASSIGNEE.

Should any provision of this Assignment be deemed invalid or unenforceable by reason of any law, statute, regulation or judgment, existing now or in the future in any jurisdiction, such provision shall be modified in such jurisdiction so as to nearly approximate the intent of the Parties. If this cannot be done, such invalid or unenforceable provision shall be divisible and be deleted in any such jurisdiction, and all other provisions shall remain in full force and effect. The modification or deletion of any provision in one jurisdiction shall have no effect on this Assignment in any other jurisdiction.

This Assignment shall be governed by the laws of Switzerland.

This Assignment is effective as from the earliest priority date as stated above.

Executed this Of day of Johnson, 2014.

Colored L.S.

Sabine DESSET-BRETHES

Print Name: VAGNON EVO

Witness
Print Name: BENU (ELINE

PATENT REEL: 043752 FRAME: 0223

Executed this	day of	, 2014
		L.S.
Regis FRELON		
Witness		
Print Name:		
Witness Print Name:		
rini (vame:		
Executed this	day of	, 2014
		L.S.
Stefan HIRSCH		
Witness		
Print Name:		
Witness		
Print Name:		

PATENT REEL: 043752 FRAME: 0224

PATENT

Executed this 1 day of April .2014	
Acceptance of Company Novartis Pharma AG BY:L.S.	Authorized signatory Simone Malton-Poiron
BY: De Blab Dotainge L.S.	Elke Blab-Rotzinger Authorized signatory
Witness KOAN MARTINE Print Name:	
Witness Authorized Tan	ed signatory ja Vogel

5

PATENT REEL: 043752 FRAME: 0225

PATENT

REEL: 062760 FRAME: 0425

Print Name:

ASSIGNMENT

This Assignment Agreement is entered into by and between

Sabine DESSET-BRÈTHES citizen of France c/o Novartis Pharma AG

Postfach 4002 Basel SWITZERLAND

Regis FRELON citizen of France c/o Novartis Pharma AG

Postfach 4002 Basel SWITZERLAND

Stefan HIRSCH citizen of Germany c/o Novartis Pharma AG

Postfach 4002 Basel SWITZERLAND

(hereinafter "Inventor(s)"), and Novartis Pharma AG, Postfach, 4002 Basel, Switzerland, a company organized under the laws of Switzerland.

For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged. I/We the Inventor(s) do hereby confirm and agree that, by operation of law and/or contract, and/or by the fulfillment of any and all legal requirements regarding the transfer of employee inventions in my/our country of employment, Novartis Pharma AG is the true and lawful owner of all right, title and interest in all inventions, discoveries, patents/utility models, applications, and rights described in paragraphs (1) through (8) below.

If, however, under the laws of any country, I/We the Inventor(s) nevertheless have any ownership right, title or interest in any of the items described herein (which I/We do not believe to be the case and make no claim in or to), for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, I/We the Inventor(s) do hereby sell, assign and transfer to Novartis Pharma AG and its successors, assigns and legal representatives (hereinafter referred to collectively as the "ASSIGNEE"), all of our right, title and interest for all countries of the world in and to

(1) all of our inventions and discoveries described in the provisional or non-provisional patent, utility model, or other application(s) entitled

Dispensing Device

and filed in the European Office on 11 May 2012 and accorded Application Number EP12167791.8 and/or filed as a PCT International Application on 09 May 2013 and accorded International Patent Application Number PCT/EP2013/059691 and/or filed in the United States

PATENT REEL: 043752 FRAME: 0473

PATENT

Patent and Trademark Office on and accorded Application Number and on and accorded Application Number

- (2) the application(s) identified in paragraph (1), and all applications claiming priority from such application(s), directly or indirectly, including all national stages of any international patent application(s);
- (3) the right to file patent, utility model, or other applications on any invention or discovery disclosed in any of the applications identified in paragraphs (1) and (2), including the right to file such applications on said inventions and discoveries in the names of ASSIGNEE or their designees or in our/my name, at ASSIGNEE's election and in accordance with applicable law in all countries and regions; and the right to file all patent, utility model, or other applications in all countries and regions claiming the priority of any of the provisional or non-provisional application(s) identified in paragraphs (1) or (2);
- (4) all rights to claim priority from any of the applications referred to in paragraphs (1), (2), and (3) or from any application from which any of the applications referred to in paragraphs (1), (2) and (3) claim priority in all countries and regions under the Paris Convention for the Protection of Industrial Property, the WTO GATT TRIPS Agreement, the Inter-American Convention relating to Inventions, Patents, Designs, and Industrial Models and all other international agreements to which the United States now is or hereafter becomes a signatory and, if the United States patent application is a provisional patent application, under 35 USC 119(e);
- (5) all continuations, continuations-in-part, and divisionals of any United States patent application(s) or international patent application(s) designating the United States, any national stages of any international application(s), and any other patent application(s) described in paragraphs (1) through (4) hereof, including further continuations, continuations-in-part, and divisionals such as, but not limited to, continuations of continuations and continuations of divisionals:
- (6) all patents, utility models, or other grants that issue from any of the applications referred to herein and all rights and remedies associated therewith including the right to sue for and recover past damages and to recover under 35 U.S.C. § 154 (d) or any other law permitting remedies for infringement prior to issuance of the patent;
- (7) all registrations and confirmations of, and importation certificates based upon, one or more of said patents, utility models, or other grants, and applications for such registrations, confirmations and importation certificates and;
- (8) all reissues, renewals and extensions of said patents, utility models, registrations, confirmations and importation certificates, reexamination certificates issued for said patents and supplementary protection certificates based upon said patents and applications for such reissues, renewals, extensions, reexamination certificates and supplementary protection certificates, the

same to be held and enjoyed by said ASSIGNEE to the full ends of the terms for which said patents, utility models, registrations, confirmations, importation certificates, reexamination

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PATENT REEL: 043752 FRAME: 0474

certificates, supplementary protection certificates, reissues, renewals and extensions may be granted, as fully and entirely as the same would have been held and enjoyed by me/us if this sale, assignment and transfer had not been made.

I/We the Inventor(s) hereby authorize ASSIGNEE and their representatives to insert in paragraph (1) of this Assignment the filing date(s) and Application Number(s) of said patent, utility model, or other application(s) when notified thereof.

I/We the Inventor(s) hereby covenant and agree that I/We will, at any time, (i) upon the request, but at the expense, of ASSIGNEE, execute and deliver all documents that may be necessary or desirable to perfect the title to the foregoing inventions and discoveries, applications, patents, utility models, registrations, confirmations, importation certificates, reissues, renewals, extensions, reexamination certificates, supplementary protection certificates, and applications within the scope of (7) and (8), in ASSIGNEE, including the execution and procurement of all further documents evidencing this sale, assignment and transfer as may be necessary or desirable for recording the same in the patent office or other intellectual property office, agency or the like of any country or region, (ii) upon the request, but at the expense, of ASSIGNEE execute all additional applications within the scope of paragraphs (1) through (6) and all applications within the scope of (7) or (8), and (iii) make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein, without further compensation, but at the expense of ASSIGNEE.

Should any provision of this Assignment be deemed invalid or unenforceable by reason of any law, statute, regulation or judgment, existing now or in the future in any jurisdiction, such provision shall be modified in such jurisdiction so as to nearly approximate the intent of the Parties. If this cannot be done, such invalid or unenforceable provision shall be divisible and be deleted in any such jurisdiction, and all other provisions shall remain in full force and effect. The modification or deletion of any provision in one jurisdiction shall have no effect on this Assignment in any other jurisdiction.

This Assignment shall be governed by the laws of Switzerland.

This Assignment is effective as from the earliest priority date as stated above.

Executed this	day of	. 2014.
Sabine DESSET-	BRÈTHES	_L.S.
Witness Print Name:		
Witness Print Name:		-

PATENT REEL: 043752 FRAME: 0475

PATENT

Executed this 14 day of harmon /	_, 2014
	L.S.
Regis FRELON	
A A A A A A A A A A A A A A A A A A A	
Witness Print Name: Fracal Scholler	_
Title (Addition	
S leave	
Witness Print Name: Stefan . Keye.	
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Executed this day of	_, 2014
ful did	L.S.
Stefan HIRSCH	
11/1/2	
Witness	
Print Name: W. CASTNACE	
Witness	_
Print Name: Sarah Gold	

PATENT REEL: 043752 FRAME: 0476

PATENT

Executed this 11 day of Apri	, 2014	
Acceptance of Company Novartis Pharma AG BY:	L.S.	Authorized signatory Simone Malton-Poiron
BY: <u>E. Ball-Rota</u>	<u>L.S.</u>	Elke Blab-Rotzinger Authorized signatory
Witness Print Name:	market C	
Witness	Authorized sig	gnatory pel

RECORDED: 10/02/2017

RECORDED: 02/22/2023

Print Name:

PATENT REEL: 043752 FRAME: 0477

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