

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Andreas Fritze | 06/15/2010 |
| Karine Corcelle | 06/18/2010 |
| Melinda Eniko Grubesa | 07/02/2010 |
| RECEIVING PARTY DATA | |
| Name: | NOVARTIS AG |
| Street Address: | Lichtstrasse 35 |
| City: | Basel |
| State/Country: | SWITZERLAND |
| Postal Code: | 4056 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 13386125 |
| CORRESPONDENCE DATA | |
| Fax Number: | (973)781-8064 |
| Phone: | 8627788462 |
| Email: | pip_inbox.phchbs@novartis.com |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i> | |
| Correspondent Name: | Linda Adams |
| Address Line 1: | Novartis Pharmaceuticals Corporation |
| Address Line 2: | One Health Plaza |
| Address Line 4: | East Hanover, NEW JERSEY 07936 |
| ATTORNEY DOCKET NUMBER: | PAT053678-US-PCT |
| NAME OF SUBMITTER: | Linda Adams |
| Total Attachments: 8 | |

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1983

(joint)

Patent Case PAT053678

ASSIGNMENT

For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, we

(1) **Andreas Fritze**, (2) **Karine Corcelle** and (3) **Melinda Enikö Grubesa**,

respectively residing at

(1) **Novartis Pharma AG,**

Postfach

4002 Basel

SWITZERLAND,

(2) **Novartis Pharma AG**

Postfach

4002 Basel

SWITZERLAND,

(3) **Novartis Pharma AG**

Postfach

4002 Basel

SWITZERLAND,

do hereby sell, assign and transfer to Novartis AG, a company organized under the laws of the Swiss Confederation, of Lichtstrasse 35, 4056 Basel, Switzerland, (hereinafter referred to as the "**ASSIGNEE**") and its successors, assigns and legal representatives, all of my right, title and interest for all countries of the world in and to (1) all of my inventions and discoveries described in the patent application(s) titled

Pharmaceutical Compositions

and filed in the United States Patent and Trademark Office on _____, 20__ and accorded Application Number _____ * and/or filed in the RO/EP on 20 July, 2010 and accorded International Patent Application Number PCT/EP 2010/060470 *, (2) the patent application(s) identified in (1), (3) all national stages of any international patent application identified in (1), (4) all other patent applications in all countries and regions claiming the priority of the provisional or non-provisional patent application filed in the United States Patent and Trademark Office on 21 July 2009 and accorded Application Number 61/227141 and on 18 January 2010 and accorded Application Number 61/295884, (5) for all patent applications, all rights of priority based upon the United States patent application identified in (4) in all countries and regions under the Paris Convention for the Protection of Industrial Property, 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 identified in (4) is a provisional patent application, under 35 USC 119(e) (including the right to file patent applications on said inventions and discoveries in the names of **ASSIGNEE** or their designees or in our names, at their election and in accordance with applicable law in all countries and regions), (6) all continuations and divisions of any United States patent application or international patent application designating the United States identified in (1), any national stages of any international application identified in (1) and any patent applications within the scope of (4) (including further continuations and divisions such as, but not limited to, continuations of continuations and continuations of divisions), ((2)-(4) and (6) hereinafter referred to collectively as "patent applications"), (7) all patents that are granted on any of said patent applications, (8) all registrations and confirmations of, and importation certificates based upon, one or more of said patents and applications for such registrations, confirmations and importation certificates and (9) all reissues, renewals and extensions of said patents, 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,

PATENT

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extensions, reexamination certificates and supplementary protection certificates, the same to be held and enjoyed by said **ASSIGNEE** and their successors, assigns and legal representatives to the full ends of the terms for which said patents, registrations, confirmations, importation certificates, reexamination 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 us if this sale, assignment and transfer had not been made.

*We hereby authorize **ASSIGNEE** and their representatives to insert in this Assignment the filing date(s) and Application Number(s) of said patent application(s) when notified thereof.

And we hereby covenant and agree that we will, at any time, (i) upon the request, but at the expense, of **ASSIGNEE** or their successors, assigns or legal representatives execute and deliver all documents that may be necessary or desirable to perfect the title to the foregoing inventions and discoveries, patent applications, patents, registrations, confirmations, importation certificates, reissues, renewals, extensions, reexamination certificates, supplementary protection certificates and applications within the scope of (8) and (9) in **ASSIGNEE** or their successors, assigns or legal representatives, 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** or their successors, assigns or legal representatives execute all additional patent applications within the scope of (3), (4) and (6) and all applications within the scope of (8) or (9) 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** or their successors, assigns or legal representatives.

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

Executed this 15 day of June, 2010

Andreas Fritze L.S.
Andreas Fritze

Executed this 18 day of June, 2010

Karine Corcelle L.S.
Karine Corcelle

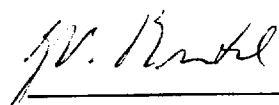
Executed this _____ day of _____, 20__

Melinda Enikö Grubesa

ACCEPTANCE OF ASSIGNMENT

With reference to the Assignment to **NOVARTIS AG** of an invention entitled "**Pharmaceutical Compositions**" signed by **Andreas Fritze, Karine Corcelle, Melinda Enikö Grubesa**; this will certify that **NOVARTIS AG** accepts such Assignment.

NOVARTIS AG

By : 

Name : **June Violet Mentel**



Sonja Bösch

Function : **Duly Authorized Signatories**

Date: 19 July 2010

Attestation

I, the undersigned Civil Law Notary in Basel, Switzerland, Dr. Matthias Staehelin, certify herewith that the signatures attached heretofore are the genuine signatures of **Mr. Andreas Fritze**, citizen of Germany, residing in Lörrach, Germany; of **Ms. Karine Corcelle**, citizen of France, residing in Kembs, France.

I further certify that the signatures attached heretofore are the genuine signatures of **Ms. June Violet Mentel**, citizen of Grenchen/SO, Switzerland, residing in Arlesheim, Switzerland, and of **Ms. Sonja Bösch**, German citizen, residing in Pfaffenweiler, Germany, both acting for **Novartis AG**, in Basel, Switzerland, both as proxy holders, both with joint signature.

The authenticity of the signature was established by means of comparison.

BASEL, Switzerland, this 18th (eighteenth) day of August 2010 (two thousand and ten)

M. Staehelin, Notar

Dr. M. Staehelin
Notar

Leg.Prot.Nr. 1738/2010



(joint)

Patent Case PAT053678

ASSIGNMENT

For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, we

(1) **Andreas Fritze**, (2) **Karine Corcelle** and (3) **Melinda Enikö Grubesa**,

respectively residing at

(1) **Novartis Pharma AG,**

Postfach

4002 Basel

SWITZERLAND,

(2) **Novartis Pharma AG**

Postfach

4002 Basel

SWITZERLAND,

(3) **Novartis Pharma AG**

Postfach

4002 Basel

SWITZERLAND,

do hereby sell, assign and transfer to Novartis AG, a company organized under the laws of the Swiss Confederation, of Lichtstrasse 35, 4056 Basel, Switzerland, (hereinafter referred to as the "**ASSIGNEE**") and its successors, assigns and legal representatives, all of my right, title and interest for all countries of the world in and to (1) all of my inventions and discoveries described in the patent application(s) titled

Pharmaceutical Compositions

and filed in the United States Patent and Trademark Office on _____, 20__ and accorded Application Number _____ * and/or filed in the RO/EP on 20 July, 2010 and accorded International Patent Application Number PCT/EP 20 10 060490 *, (2) the patent application(s) identified in (1), (3) all national stages of any international patent application identified in (1), (4) all other patent applications in all countries and regions claiming the priority of the provisional or non-provisional patent application filed in the United States Patent and Trademark Office on 21 July 2009 and accorded Application Number 61/227141 and on 18 January 2010 and accorded Application Number 61/295884, (5) for all patent applications, all rights of priority based upon the United States patent application identified in (4) in all countries and regions under the Paris Convention for the Protection of Industrial Property, 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 identified in (4) is a provisional patent application, under 35 USC 119(e) (including the right to file patent applications on said inventions and discoveries in the names of **ASSIGNEE** or their designees or in our names, at their election and in accordance with applicable law in all countries and regions), (6) all continuations and divisions of any United States patent application or international patent application designating the United States identified in (1), any national stages of any international application identified in (1) and any patent applications within the scope of (4) (including further continuations and divisions such as, but not limited to, continuations of continuations and continuations of divisions), ((2)-(4) and (6) hereinafter referred to collectively as "patent applications"), (7) all patents that are granted on any of said patent applications, (8) all registrations and confirmations of, and importation certificates based upon, one or more of said patents and applications for such registrations, confirmations and importation certificates and (9) all reissues, renewals and extensions of said patents, 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,

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extensions, reexamination certificates and supplementary protection certificates, the same to be held and enjoyed by said **ASSIGNEE** and their successors, assigns and legal representatives to the full ends of the terms for which said patents, registrations, confirmations, importation certificates, reexamination 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 us if this sale, assignment and transfer had not been made.

*We hereby authorize **ASSIGNEE** and their representatives to insert in this Assignment the filing date(s) and Application Number(s) of said patent application(s) when notified thereof.

And we hereby covenant and agree that we will, at any time, (i) upon the request, but at the expense, of **ASSIGNEE** or their successors, assigns or legal representatives execute and deliver all documents that may be necessary or desirable to perfect the title to the foregoing inventions and discoveries, patent applications, patents, registrations, confirmations, importation certificates, reissues, renewals, extensions, reexamination certificates, supplementary protection certificates and applications within the scope of (8) and (9) in **ASSIGNEE** or their successors, assigns or legal representatives, 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** or their successors, assigns or legal representatives execute all additional patent applications within the scope of (3), (4) and (6) and all applications within the scope of (8) or (9) 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** or their successors, assigns or legal representatives.

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

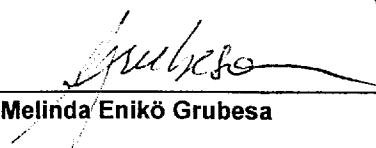
Executed this _____ day of _____, 20__.

L.S.
Andreas Fritze

Executed this _____ day of _____, 20__.

L.S.
Karine Corcelle

Executed this 02 day of July, 2010



L.S.
Melinda Enikö Grubesa

ACCEPTANCE OF ASSIGNMENT

With reference to the Assignment to **NOVARTIS AG** of an invention entitled "**Pharmaceutical Compositions**" signed by **Andreas Fritze, Karine Corcelle, Melinda Enikö Grubesa**; this will certify that **NOVARTIS AG** accepts such Assignment.

NOVARTIS AG

By: *J.V. Mentel* *S. Bösch*
Name: **June Violet Mentel** **Sonja Bösch**
Function: **Duly Authorized Signatories**
Date: 19 July 2010

Attestation

I, the undersigned Civil Law Notary in Basel, Switzerland, Dr. Matthias Staehelin, certify herewith that the signature attached heretofore is the genuine signature of **Ms. Melinda Eniko Grubesa**, citizen of Romania, residing in Basel, Switzerland.

I further certify that the signatures attached heretofore are the genuine signatures of **Ms. June Violet Mentel**, citizen of Grenchen/SO, Switzerland, residing in Arlesheim, Switzerland, and of **Ms. Sonja Bösch**, German citizen, residing in Pfaffenweiler, Germany, both acting for **Novartis AG**, in Basel, Switzerland, both as proxy holders, both with joint signature.

The authenticity of the signature was established by means of comparison.

BASEL, Switzerland, this 18th (eighteenth) day of August 2010 (two thousand and ten)



Dr. M. Staehelin
Notar

Leg.Prot.Nr. 1731/2010