

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4123398

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
HERMANN GRAM	04/17/2008
THOMAS JUNG	05/13/2008
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Novartis AG
<b>Street Address:</b>	Lichtstrasse 35
<b>City:</b>	Basel
<b>State/Country:</b>	SWITZERLAND
<b>Postal Code:</b>	4056
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14861191
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(973)781-8064
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<b>ATTORNEY DOCKET NUMBER:</b>	PAT050944-US-CNT03
<b>NAME OF SUBMITTER:</b>	ANDREA JACQUIN
<b>SIGNATURE:</b>	/Andrea Jacquin/
<b>DATE SIGNED:</b>	11/01/2016
<b>Total Attachments: 5</b>	
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ASSIGNMENT

For good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, we  
(1) Hermann Gram and (2) Thomas Jung  
respectively residing at

(1) Am Bischofsacker 20  
79576 Weil am Rhein

DE

and

(2) Leegaass 5/12  
1140 Wien

AT,

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, and its successors, assigns and legal representatives, all our right, title and interest for all countries of the world (Novartis AG hereinafter referred to as the "ASSIGNEE") in and to (1) all of our inventions and discoveries described in the patent application(s) entitled

New indications

filed\* in the ROI/ on 28 MAY, 2008, and accorded International Patent Application Number PCT/EP08/056520, (2) said patent application(s), (3) all national stages of said international patent application, (4) all other patent applications in all countries and regions claiming the priority of the European Procedure, patent application filed on May 29, 2007, and accorded Application Number 07109084.9, (5) all continuations and divisions of all of said patent applications (including further continuations and divisions such as, but not limited to, continuations of continuations and continuations of divisions), ((2)-(5) hereinafter referred to collectively as "patent applications"), (6) all patents that are granted on any of said patent applications, (7) all registrations and confirmations of, and importation certificates based on, one or more of said patents and (8) all reissues, renewals and extensions of said patents, reexamination certificates issued for said patents and supplementary protection certificates based on said patents (including the right to file patent applications on said inventions and discoveries in the names of ASSIGNEE, their designees or in any or all of our names, at their election and in accordance with applicable law in all countries and regions and all rights of priority in all countries and regions for all of said patent applications under the International Convention for the Protection of Industrial Property, and all other applicable similar International agreements), the same to be held and enjoyed by said ASSIGNEE, their successors, assigns and legal representatives, to the full ends of the terms for which all patents therefor 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 instrument the Application Number and the filing date of said patent application when notified thereof.

And we hereby covenant and agree that we will, at any time, upon the request and 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, patent applications, patents, registrations, confirmations, importation certificates, reissues, renewals, extensions, reexamination certificates and supplementary protection certificates in ASSIGNEE, their successors, assigns or other 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, that we will, at any time, upon the request and at the expense of ASSIGNEE, execute all additional patent applications, applications for registration and/or confirmation of one or more of said patents, applications for certificates of importation based on one or more of said patents, applications for reissues, renewals and extensions of one or more of said patents and supplemental protection certificates based upon one or more of said patents, and that we will 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, the successors, assigns or other legal representatives.

Executed this 17 day of April, 2008.

Hermann Gram

L.S.

Name: Hermann Gram

Executed this 13 day of May, 2008.

Thomas Jung

L.S.

Name: Thomas Jung

ACCEPTANCE OF ASSIGNMENT

With reference to the Assignment to NOVARTIS AG of an invention entitled "New indications" signed by Hermann Gram, Thomas Jung; this will certify that NOVARTIS AG accepts such Assignment.

By: *J. Violet Mentel* NOVARTIS AG *M. Williams*  
Name : June Violet Mentel Melanie Williams  
Function : Administrative Professional Administrative Expert  
Date: \_\_\_\_\_

**Attestation**

I, the undersigned, **Dr. Matthias Staehelin**, notary public of Basel, Switzerland, certify herewith the authenticity of the signature of **Mr. Hermann Gram**, German citizen, residing in Weil am Rhein, Germany; and of **Mr. Thomas Jung**, German citizen, residing in Basel, Switzerland.

I further certify that the above signatures are the genuine signatures of **Ms. June Violet Mentel**, citizen of Grenchen/SO, Switzerland, residing in Arlesheim, Switzerland, and **Ms. Melanie Williams**, British citizen, residing in Basel, Switzerland, both acting for **Novartis AG**, in Basel, Switzerland, both as proxy holders, both with joint signature.

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

BASEL, Switzerland, this 23<sup>rd</sup> (twenty-third) day of May 2008 (twothousandandeight).

*Dr. Staehelin, Notar*

Dr. M. Staehelin  
Notar

Leg. Prot. Nr. 1122 / 2008

**FOR CERTIFIED COPY**

I, the undersigned Civil Law Notary in Basel, Switzerland, Dr. Matthias Staehelin, hereby certify that the documents attached heretofore are true and authentic photocopies of the originals.

BASEL, Switzerland, this 12<sup>th</sup> (twelfth) day of November 2009 (two thousand and nine)

*M. Staehelin, Notar*

Dr. M. Staehelin  
Notar

Leg. Prot. Nr. *3013* / 2009