

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| SUBMISSION TYPE:  | NEW ASSIGNMENT  |               |                |                     |                 |                  |            |                |             |              |      |
|---|-----------------|---------------|----------------|---------------------|-----------------|------------------|------------|----------------|-------------|--------------|------|
| NATURE OF CONVEYANCE:   | ASSIGNMENT      |               |                |                     |                 |                  |            |                |             |              |      |
| <b>CONVEYING PARTY DATA</b>   |                 |               |                |                     |                 |                  |            |                |             |              |      |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Paul W. MANLEY</td> <td>05/05/2008</td> </tr> <tr> <td>Joseph SCHOEPPER</td> <td>05/05/2008</td> </tr> </tbody> </table>                                      |                 | Name          | Execution Date | Paul W. MANLEY      | 05/05/2008      | Joseph SCHOEPPER | 05/05/2008 |                |             |              |      |
| Name  | Execution Date  |               |                |                     |                 |                  |            |                |             |              |      |
| Paul W. MANLEY  | 05/05/2008      |               |                |                     |                 |                  |            |                |             |              |      |
| Joseph SCHOEPPER  | 05/05/2008      |               |                |                     |                 |                  |            |                |             |              |      |
| <b>RECEIVING PARTY DATA</b>   |                 |               |                |                     |                 |                  |            |                |             |              |      |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Novartis AG</td> </tr> <tr> <td>Street Address:</td> <td>Lichtstrasse 35</td> </tr> <tr> <td>City:</td> <td>Basel</td> </tr> <tr> <td>State/Country:</td> <td>SWITZERLAND</td> </tr> <tr> <td>Postal Code:</td> <td>4056</td> </tr> </table> |                 | Name:         | Novartis AG    | Street Address:     | Lichtstrasse 35 | City:            | Basel      | State/Country: | SWITZERLAND | Postal Code: | 4056 |
| Name:   | Novartis AG     |               |                |                     |                 |                  |            |                |             |              |      |
| Street Address:   | Lichtstrasse 35 |               |                |                     |                 |                  |            |                |             |              |      |
| City:   | Basel           |               |                |                     |                 |                  |            |                |             |              |      |
| State/Country:  | SWITZERLAND     |               |                |                     |                 |                  |            |                |             |              |      |
| Postal Code:  | 4056            |               |                |                     |                 |                  |            |                |             |              |      |
| <b>PROPERTY NUMBERS Total: 1</b>  |                 |               |                |                     |                 |                  |            |                |             |              |      |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12596193</td> </tr> </tbody> </table>   |                 | Property Type | Number         | Application Number: | 12596193        |                  |            |                |             |              |      |
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| Application Number:   | 12596193        |               |                |                     |                 |                  |            |                |             |              |      |
| <b>CORRESPONDENCE DATA</b>  |                 |               |                |                     |                 |                  |            |                |             |              |      |
| <p>Fax Number: (617)871-3392</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 617-871-4145</p> <p>Email: RYAN.DEE@NOVARTIS.COM</p> <p>Correspondent Name: MARK E. BARON</p> <p>Address Line 1: 220 MASSACHUSETTS AVENUE</p> <p>Address Line 4: CAMBRIDGE, MASSACHUSETTS 02139</p>                  |                 |               |                |                     |                 |                  |            |                |             |              |      |
| ATTORNEY DOCKET NUMBER:   | 50869-US-PCT    |               |                |                     |                 |                  |            |                |             |              |      |
| NAME OF SUBMITTER:  | Mark E. Baron   |               |                |                     |                 |                  |            |                |             |              |      |
| <p>Total Attachments: 4</p> <p>source=Assignment (executed)#page1.tif</p> <p>source=Assignment (executed)#page2.tif</p> <p>source=Assignment (executed)#page3.tif</p>   |                 |               |                |                     |                 |                  |            |                |             |              |      |

CH \$40.00 12596193

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**PATENT**  
**REEL: 023382 FRAME: 0870**



**ASSIGNMENT**

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

|                     |                           |   |
|---------------------|---------------------------|---|
| 1. Paul W. MANLEY   | citizen of United Kingdom | Bruggweg 12<br>4144 Arlesheim<br>CH     |
| 2. Joseph SCHOEPPER | citizen of Switzerland    | Steingrubenweg 112<br>4125 Riehen<br>CH |

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

**Organic Compounds**

filed\* in the RO/EPO on April 17, 2008, and accorded International Patent Application Number PCT/EP2008/054640, (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 April 17, 2007 and accorded Application Number 07106308.5 (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.

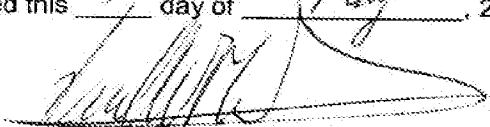
And we hereby covenant and agree that we will, at any time, upon the request and at the expense of **ASSIGNEE**, execute and deliver all documents that may be necessary or desirable to perfect the title to the foregoing inventions and discoveries, patent applications, patents, registrations, confirmations, 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

Case No. 50869

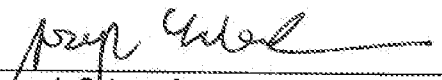
2

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 5 day of May, 2008.

  
Name: Paul W. Manley L.S.

Executed this 5 day of May, 2008.

  
Name: Joseph Schoepfer L.S.

**ACCEPTANCE OF ASSIGNMENT**

With reference to the Assignment to **NOVARTIS AG** of an invention entitled "Organic Compounds" signed by Paul W. Manley, Joseph Schoepfer, this will certify that **NOVARTIS AG** accepts such Assignment.

**NOVARTIS AG**

By :

Name :

Biljana Colovic

Sabine Zeller

Function :

Head of Patents Services, NIBR PatentsIP Administrative Expert

Date:

14.01.02

### Attestation

I, the undersigned, **Dr. Matthias Staehelin**, notary public of Basel, Switzerland, certify herewith the authenticity of the signatures of **Mr. Paul W. Manley**, British citizen, residing in Arlesheim, Switzerland; of **Mr. Joseph Schoepfer**, citizen of Escholz matt/LU, Switzerland, residing in Riehen, Switzerland.

I further certify that the above signatures are the genuine signatures of **Ms. Biljana Colovic**, Serbian citizen, residing in Basel, Switzerland, and of **Ms. Sabine Zeller**, citizen of Ormalingen/BL, Switzerland, residing in Gelterkinden/BL, 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 comparison.

BASEL, Switzerland, this 16<sup>th</sup> (sixteenth) day of May 2008 (twothousandandeight).



Dr. M. Staehelin  
Notar

Leg.Prot.Nr. 1022/2008

PATENT

RECORDED: 10/16/2009

REEL: 023382 FRAME: 0875