

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT2807094

|   |                                 |
|---|---------------------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                  |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                      |
| <b>CONVEYING PARTY DATA</b>   |                                 |
| <b>Name</b>   | <b>Execution Date</b>           |
| NOVARTIS PHARMA AG  | 01/19/2009                      |
| <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>PROPERTY NUMBERS Total: 1</b>  |                                 |
| <b>Property Type</b>  | <b>Number</b>                   |
| <b>Patent Number:</b>   | 8349294                         |
| <b>CORRESPONDENCE DATA</b>  |                                 |
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| <b>ATTORNEY DOCKET NUMBER:</b>  | PAT053301-US-CNT02              |
| <b>NAME OF SUBMITTER:</b>   | AMY WELLS                       |
| <b>SIGNATURE:</b>   | /Amy M. Wells/                  |
| <b>DATE SIGNED:</b>   | 04/09/2014                      |
| <b>Total Attachments: 4</b>   |                                 |
| source=NV_156_10_ASG_NovartisPharm-NovartisAG#page1.tif   |                                 |
| source=NV_156_10_ASG_NovartisPharm-NovartisAG#page2.tif   |                                 |
| source=NV_156_10_ASG_NovartisPharm-NovartisAG#page3.tif   |                                 |
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**Attestation**

I, the undersigned notary public of Basel, Switzerland, Dr. Matthias Staehelin, certify herewith that the above signatures are the genuine signatures of **Ms. June Violet Mentel**, citizen of Grenchen/SO, Switzerland, residing in Arlesheim/BL, Switzerland, and of **Mr. Arthur Canonica**, citizen of Corticiasca/TI, Switzerland, residing in Wisen/SO, Switzerland, both acting for **Novartis Pharma 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 21<sup>st</sup> (twenty-first) day of January 2009 (two thousand and nine)



*M. Staehelin, Notar*

Dr. M. Staehelin  
Notar

Leg. Prot. Nr. 295/2009

**PATENT**

**REEL: 032636 FRAME: 0456**

SCHEDULE A TO ASSIGNMENT

[See Attachment]

PATENT

REEL: 032636 FRAME: 0457

| MATTER NO. | COUNTRY ID | SERIAL NO. | PATENT NO. | PUBL NO.           | TITLE   | RELATED    | STATUS    | FILE           | PUBL          | ISSUE          | EXPIRATION |
|------------|------------|------------|------------|--------------------|---|------------|-----------|----------------|---------------|----------------|------------|
| 0093.PRO   | US         | 60/345,276 |            |                    | PRECIPITATE BASED MICROPARTICLE FORMULATIONS FOR PULMONARY SUSTAINED RELEASE OF PROTEINS AND PEPTIDES                   |            | EXPIRED   | 12/31/2001     |               |                | 12/31/2002 |
| 0125.PRO   | US         | 60/343,248 |            |                    | COMPOSITIONS AND METHODS FOR INCREASING THE BIOAVAILABILITY OF PULMONARILY ADMINISTERED INSULIN                         |            | EXPIRED   | 12/31/2001     |               |                | 12/31/2002 |
| SCH0001.00 | US         | 07/287,918 | 5,043,280  |                    | METHODS AND APPARATUS FOR THE MANUFACTURE OF A PRODUCT HAVING A SUBSTANCE EMBEDDED IN A CARRIER                         | SCH0001.DE | ISSUED    | 12/21/1998     |               | 8<br>12/1/1991 | 12/21/2008 |
| SCH0002.00 | US         | 09/681,272 | 5,424,076  |                    | METHOD OF PRODUCING MICROSCOPIC PARTICLES MADE OF HYDROLYTICALLY DECOMPOSABLE POLYMERS AND CONTAINING ACTIVE SUBSTANCES | SCH0002.PC | ISSUED    | 1/21/1993      |               | 6<br>1/3/1995  | 8/13/2012  |
| 0153.PRO   | US         | 60/378,703 |            |                    | CELLULOSE CAPSULES FOR DRY POWDER INHALERS AND METHODS OF MAKING AND USING SAME   |            | EXPIRED   | 5/7/2002       |               |                | 5/7/2003   |
| 0153.00    | US         | 10/430,832 |            | US 2004-0023878 A1 | CELLULOSE CAPSULES FOR DRY POWDER INHALERS AND METHODS OF MAKING AND USING SAME   | 0153.PRO   | ABANDONED | 5/7/2003       | 2<br>1/2/2004 |                | 12/27/2007 |
| 0155.00 AJ | US         | 09/599,619 |            |                    | STABLE METAL ION-LIPID POWDERED PHARMACEUTICAL COMPOSITIONS FOR DRUG DELIVERY AND METHODS OF USE                        |            | PENDING   | 5<br>1/0/2000  |               |                | 5/10/2020  |
| 0156.20 AJ | US         | 10/044,880 |            |                    | STABLE METAL ION-LIPID POWDERED PHARMACEUTICAL COMPOSITIONS FOR DRUG DELIVERY AND METHODS OF USE                        | 0156.00 AJ | ABANDONED | 1<br>11/0/2000 |               |                | 12/12/2003 |