

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT				
NATURE OF CONVEYANCE:	ASSIGNMENT				
CONVEYING PARTY DATA					
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Novartis Pharma AG</td> <td>01/19/2009</td> </tr> </tbody> </table>		Name	Execution Date	Novartis Pharma AG	01/19/2009
Name	Execution Date				
Novartis Pharma AG	01/19/2009				
RECEIVING PARTY DATA					
Name:	Novartis AG				
Street Address:	Lichtstrasse 35				
City:	Basel				
State/Country:	SWITZERLAND				
PROPERTY NUMBERS Total: 1					
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13707563</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13707563
Property Type	Number				
Application Number:	13707563				
CORRESPONDENCE DATA					
Fax Number:	4155388380				
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>					
Phone:	4155381555				
Email:	jaoffice@janah.com				
Correspondent Name:	JANAH & ASSOCIATES, P.C.				
Address Line 1:	650 Delancey St				
Address Line 2:	Suite 106				
Address Line 4:	San Francisco, CALIFORNIA 94107				
NAME OF SUBMITTER:	Libby Wilke				
<p>Total Attachments: 4</p> <p>source=NV_156_11_ASG_NovartisPharm-NovartisAG#page1.tif</p> <p>source=NV_156_11_ASG_NovartisPharm-NovartisAG#page2.tif</p> <p>source=NV_156_11_ASG_NovartisPharm-NovartisAG#page3.tif</p> <p>source=NV_156_11_ASG_NovartisPharm-NovartisAG#page4.tif</p>					

CH \$40.00 13707563

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 21st (twenty-first) day of January 2009 (two thousand and nine)



M. Staehelin, Notar
Dr. M. Staehelin
Notar

Leg. Prot. Nr. 295/2009

PATENT

REEL: 029448 FRAME: 0649

SCHEDULE A TO ASSIGNMENT

[See Attachment]

PATENT

REEL: 029448 FRAME: 0650

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 12/7/1991	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 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 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 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 11/0/2000			12/12/2003