### 502158830 12/11/2012

# PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

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**

Property Type	Number
Application Number:	13707563

## **CORRESPONDENCE DATA**

Fax Number: 4155388380

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

**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

Total Attachments: 4

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PATENT REEL: 029448 FRAME: 0647 CH \$40.00 13/0/5

### **ASSIGNMENT**

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

Novartis Pharma AG, a company organized under the laws of the Switzerland, of Lichtstrasse 35, CH-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, and its successors, assigns and legal representatives, all of our right, title and interest for all countries of the world (Novartis AG hereinafter referred to collectively as the "ASSIGNEES") in and to those patents and patent applications set forth on Schedules A and B hereto (collectively, the "ASSIGNED PATENTS"), as well as any extensions, divisions, reexaminations, reissues and continuations thereof and any applications or patents that claim priority from such patents and applications, including any foreign counterparts thereto, and all rights, claims and privileges pertaining to any of the foregoing.

	Executed this day	of factoring	, 20 <u></u>		
st <sup>b</sup>	NOVARTIS PHARMA AG	<b>&gt;</b>			
W.	Time Water FRENTER Dury authors 2xd 51	War	L.S.		
	June Violet MENTEL	Arthor C	CNON	CA	
	Duly authorized 51	gratories			
	ACKNOWLEDGEMENT				
	State of	}	•		
×	County of	) s.s.: )			
	On this day of	on and known by n	20	_, personally appeared before e same person described in :	e me and who executed
	the foregoing Assignment and purpose set forth.	acknowledged the	at (s)he ex	ecuted the same of his (her)	own free will for the
	(Seal)			•	
				Notany Puhi	ic .

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REEL: 029448 FRAME: 0648

### 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)

TOTAR BASEY

M. Stachelin Dote

Leg. Prot. Nr. 295 /2009

**PATENT** 

REEL: 029448 FRAME: 0649

# SCHEDULE A TO ASSIGNMENT

[See Attachment]

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REEL: 029448 FRAME: 0650

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MATTER	COUNTRY	ON INIGHO	PATENT	PUBL NO	3431	RELATED	STATUS	STATUS FILE PUBL		18SUE	EXFIRATION
0083. PRO	g sn		Q		PRECIPITATE BASED MICROPARTICLE FORMULATIONS FOR FULMONARY SUSTAINED RELEASE OF PROTEINS AND PEPTIONS		EXPIRED	12/31/200			12/31/2002
0125.PRO	SI)	60/343,248			COMPOSITIONS AND METHODS FOR INCREASING THE BIOAVALABILITY OF PULMONARILY ADMINISTERED INSULIN		expired	12731/200			12/31/2062
\$CH0001.00	3	07/287,918	5,043,280		~	SCH0001.DE	(\$SI)ED	13/21/198		8  Z1/1991	12/21/2008
SCH0002.00	Sign (	08/08 1,272	5,424,076		METHOD OF PRODUCING SCHOOZ.PC MICROSCOPIC PARTICLES MADE OF HYDROLYTICALLY DECOMPOSABLE POLYMERS AND	3СН0802.РС Т	(SGUED	6 722/1993		6 /13/1985	8 /13/2012
0153.PRO	90	60/378,703			SUBSTRANCES CELLULOSE CAPSULES FOR POWDER INHALERS AND METHODS OF MAKING AND HEMG SAME		EXPIRED	5 /7 /2.002			5 /7 /2:003
0153.00	ns	10/430,632		US 2004- 0025876 A1	CELLULOSE CAPSULES FOR DRY POWDER INHALERS AND METHODS OF MAKING AND USING SAME	0153.PRO	ABANDONED	5 17 /2003	2 112/2004		12/27/2007
0158.00 AJ	g	09/568,816			STABLE METAL ION-LIPID POWDERED PHARMACEUTICAL COMPOSITIONS FOR DRUGERY AND METHODS OF USE		PENDING	5 710/2000		***************************************	5/18/2020
0158.20 AJ	U.S.	10044,880			STABLE METAL ION-LIPID 0156.00 AJ POWDERED. PHARMACELTICAL. COMPOSITIONS FOR DRUG DELIVERY AND METHODS OF USE.	8156.00 AJ	ABANDONED	11/10/200 1			12/12/2003

**RECORDED: 12/11/2012**