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
Postal Code:	4056

PROPERTY NUMBERS Total: 1

Property Type	Number
Patent Number:	7481212

CORRESPONDENCE DATA

Fax Number: (510)655-3542

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

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Correspondent Name: **NOVARTIS**

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ONE HEALTH PLAZA, BLDG. 101 Address Line 2:

Address Line 4: EAST HANOVER, NEW JERSEY 07936-1080

ATTORNEY DOCKET NUMBER: PAT053297-US-CNT

NAME OF SUBMITTER: MICHAEL J. MAZZA

Total Attachments: 4

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PATENT REEL: 026322 FRAME: 0763

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 faculary 200	<u>05</u> .
NOVARTIS PHARMA AG	
M. Mihl (Jawan L.S.	
June Vislat MENTEL Arthor CaNON	1164
Duly as thorized Signatories	
ACKNOWLEDGEMENT	
State of)	
County of) s.s.:	
On this day of, 20 to me known and known by me to be t	he same person described in and who executed
the foregoing Assignment and acknowledged that (s)he e purpose set forth.	executed the same of his (her) own free will for the
(Seal)	•
	Notary Public

PATENT

REEL: 026322 FRAME: 0764

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)

THIAS STAFFIELD OF THE BASEL

M. Stachelin

Dr. M. Stachelin

Leg. Prot. Nr. 295/2009

PATENT REEL: 026322 FRAME: 0765

SCHEDULE A TO ASSIGNMENT

[See Attachment]

PATENT

REEL: 026322 FRAME: 0766

MATTER NO	COUNTRY ,	SERIAL NO	PATENT	PUBL NO	TITLE	RELATED	ŜTATUS	FILE	PUBL	ISSUE	EXPIRATION
0133.00	US	10/609,132	and the second	2004-0060265	CONTROLLING THE FLOW OF A POWDER	0133.PRO	PUBLISHED	6 /26/2003	4 /1 /2004		6 /26/2023
0163,PRO	US	60/392,069			METHOD TO INCREASE FILL MASS CAPABILITY OF THE MERIDICA XCELODOSE FILLER FOR PULMOSPHERE POWDERS	nla	EXPIRED	6 /27/2002			6 /27/2003
0163.00	us	10/430,692	6,941,980	US 2004- 0003866 A1	APPARATUS AND METHOD FOR FILLING A RECEPTACLE WITH POWDER	0163,PRO	ISSUED	5 /5 /2003		9 /13/2005	5 /5 /2023
0150.PRO	US	60/422,563			LARGE PAYLOAD MDI VALVES		EXPIRED	10/30/200 2			10/30/2003
0150.00	UŜ	10/698,025		US 2005- 0051162	INCREASED DOSAGE METERED DOSE INHALER	0150.PRO	PUBLISHED	10/30/200 3	3 /10/2005		10/30/2023
0182.PRO	US	60/431,383			AEROSOLIZATION DEVICE WITH FEEDBACK MECHANISM		EXPIRED	12/6 /2002			12/6 /2003
0182.00	US	10/704,160		2005-0051166	AEROSOLIZATION APPARATUS WITH FEEDBACK MECHANISM	0182.PRO	PUBLISHED	11/7 /2003	3 /10/2005		11/7 /2023
0175.PRO	US	60/435,966			AEROSOLIZATION APPARATUS WITH NON- CIRCULAR AEROSOLIZATION CHAMBER		EXPIRED	12/19/200 2			12/19/2003
0175.00	US	10/714,511		US 2004- 0206350 A1	AEROSOLIZATION APPARATUS WITH NON- CIRCULAR AEROSOLIZATION CHAMBER	0175.PRO	PUBLISHED	11/14/200 3	10/21/200 4		11/14/2023
0130.PRO	US	60/436,807			METERED DOSE INHALER WITH LOCKOUT		EXPIRED	12/27/200 2			12/27/2003
0130.00	US	10/734,076		US 2005- 0056276 A1	METERED DOSE INHALER WITH LOCKOUT	0130.PRO	PUBLISHED	12/10/200 3) 3 /17/2005		12/10/2023
0152.PRO	US	60/437,371			CARRY CASE FOR AEROSOLIZATION APPARATUS		EXPIRED	12/30/200 2			12/30/2003
0152.00	US	10/738,953		US-2005- 0236296-A1	CARRY CASE FOR AEROSOLIZATION APPARATUS	0152.PRO	ABANDONED	12/16/200 3	10/27/20 5		8 /30/2008