

PATENT ASSIGNMENT

Electronic Version v1.1
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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	
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ATTORNEY DOCKET NUMBER:	PAT053297-US-CNT
NAME OF SUBMITTER:	MICHAEL J. MAZZA
Total Attachments: 4 source=10698025_7481212_Assgn_NAG#page1.tif source=10698025_7481212_Assgn_NAG#page2.tif source=10698025_7481212_Assgn_NAG#page3.tif source=10698025_7481212_Assgn_NAG#page4.tif	

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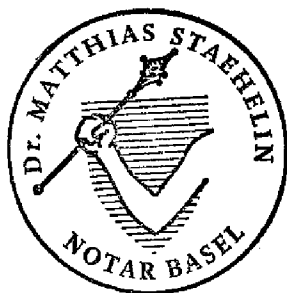
**PATENT
 REEL: 026322 FRAME: 0763**

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

SCHEDULE A TO ASSIGNMENT

[See Attachment]

MATTER NO	COUNTRY ID	SERIAL NO	PATENT NO	PUBL NO	TITLE	RELATED	STATUS	FILE	PUBL	ISSUE	EXPIRATION
0133.00	US	10/809,132		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	n/a	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	1/8/2004	9 /13/2005	5/5/2023
0150.PRO	US	60/422,563			LARGE PAYLOAD MDI VALVES		EXPIRED	10/30/2002			10/30/2003
0150.00	US	10/698,025		US 2005-0051162	INCREASED DOSAGE METERED DOSE INHALER	0150.PRO	PUBLISHED	10/30/2003	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	12/19/2002			12/19/2003
0175.00	US	10/714,511		US 2004-0206350 A1	AEROSOLIZATION APPARATUS WITH NON-CIRCULAR AEROSOLIZATION CHAMBER	0175.PRO	PUBLISHED	11/14/2003	10/21/2004		11/14/2023
0130.PRO	US	60/436,607			METERED DOSE INHALER WITH LOCKOUT		EXPIRED	12/27/2002			12/27/2003
0130.00	US	10/734,076		US 2005-0056276 A1	METERED DOSE INHALER WITH LOCKOUT	0130.PRO	PUBLISHED	12/10/2003	3 /17/2005		12/10/2023
0152.PRO	US	60/437,371			CARRY CASE FOR AEROSOLIZATION APPARATUS		EXPIRED	12/30/2002			12/30/2003
0152.00	US	10/738,953		US-2005-0236266-A1	CARRY CASE FOR AEROSOLIZATION APPARATUS	0152.PRO	ABANDONED	12/16/2003	10/27/2005		8/30/2008