

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5158674

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
NOVARTIS PHARMA AG	08/31/2018
RECEIVING PARTY DATA	
Name:	BGP PRODUCTS OPERATIONS GMBH
Street Address:	HEGENHEIMERMATTWEG 127
City:	ALLSCHWIL
State/Country:	SWITZERLAND
Postal Code:	4123
PROPERTY NUMBERS Total: 10	
Property Type	Number
Application Number:	10298177
Application Number:	13404359
Application Number:	14247546
Application Number:	11981986
Application Number:	10327510
Application Number:	10704160
Application Number:	10821652
Application Number:	10821624
Application Number:	14098403
Application Number:	12456807
CORRESPONDENCE DATA	
Fax Number:	(304)598-5408
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Phone:	304-554-4752
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Address Line 4:	MORGANTOWN, WEST VIRGINIA 26505
NAME OF SUBMITTER:	JENNIFER J HUGHES

PATENT

SIGNATURE:	/Jennifer J Hughes/
DATE SIGNED:	09/26/2018
Total Attachments: 29 source=US10298177_Assignment_Nov_BGP#page1.tif source=US10298177_Assignment_Nov_BGP#page2.tif source=US10298177_Assignment_Nov_BGP#page3.tif source=US10298177_Assignment_Nov_BGP#page4.tif source=US10298177_Assignment_Nov_BGP#page5.tif source=US10298177_Assignment_Nov_BGP#page6.tif source=US10298177_Assignment_Nov_BGP#page7.tif source=US10298177_Assignment_Nov_BGP#page8.tif source=US10298177_Assignment_Nov_BGP#page9.tif source=US10298177_Assignment_Nov_BGP#page10.tif source=US10298177_Assignment_Nov_BGP#page11.tif source=US10298177_Assignment_Nov_BGP#page12.tif source=US10298177_Assignment_Nov_BGP#page13.tif source=US10298177_Assignment_Nov_BGP#page14.tif source=US10298177_Assignment_Nov_BGP#page15.tif source=US10298177_Assignment_Nov_BGP#page16.tif source=US10298177_Assignment_Nov_BGP#page17.tif source=US10298177_Assignment_Nov_BGP#page18.tif source=US10298177_Assignment_Nov_BGP#page19.tif source=US10298177_Assignment_Nov_BGP#page20.tif source=US10298177_Assignment_Nov_BGP#page21.tif source=US10298177_Assignment_Nov_BGP#page22.tif source=US10298177_Assignment_Nov_BGP#page23.tif source=US10298177_Assignment_Nov_BGP#page24.tif source=US10298177_Assignment_Nov_BGP#page25.tif source=US10298177_Assignment_Nov_BGP#page26.tif source=US10298177_Assignment_Nov_BGP#page27.tif source=US10298177_Assignment_Nov_BGP#page28.tif source=US10298177_Assignment_Nov_BGP#page29.tif	

PATENT ASSIGNMENT

August 31, 2018

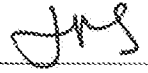
Pursuant and subject to the August 31, 2018 Intellectual Property Assignment Agreement among Novartis Pharma AG, a company organized under the laws of Switzerland and located at Lichtstrasse 35, 4056, Basel, Switzerland ("Novartis Pharma"), Novartis Vaccines and Diagnostics, Inc., a Delaware corporation located at 1 Health Plaza, East Hanover, NJ 07936 ("NVD") and, together with Novartis Pharma, collectively, "Novartis"), Novartis AG, a company organized under the laws of Switzerland and located at Forum 1, Novartis Campus, 4056 Basel, Switzerland (each individually an "Assignor"), and BGP Products Operations GmbH, a limited liability company organized under the laws of Switzerland and located at Hegenheimermattweg 127, Allschwil, 4123, Switzerland ("Assignee"), each Assignor hereby assigns to Assignee all of Assignor's right, title and interest in and to the patents and patent applications identified in Schedule A attached hereto ("Patents"), including all patent applications, provisionals, non-provisionals, continuations, divisionals, continuations-in-part, substitutions, reexaminations, inter-partes reviews, oppositions, renewals and reissues, and all extensions thereof, with supporting details of such Patents provided in Schedule B attached hereto. This assignment includes: (i) each Assignor's rights of enforcement and the rights, interests, claims and demands recoverable in law or equity that Assignor has or may have in profits and damages for past, present and future infringements, unfair competition, or other conflicts relating to the Patents, including the right to compromise, sue for and collect such profits and damages, (ii) each Assignor's rights of priority resulting from the filing of the Patents and (iii) each Assignor's other rights, including common law rights, relating to the Patents, to the extent such rights exist or may exist in the future, each to be held and enjoyed by Assignee for its own use and benefit and for the use and benefit of its successors, assigns and legal representatives as said rights would have been held and enjoyed by Assignor had this assignment and sale not been made and each free and clear of all Encumbrances (other than Permitted Encumbrances).

Each Assignor hereby authorizes the Commissioner for Patents in the United States Patent and Trademark Office, other empowered officials of the United States Patent and Trademark Office and the officials of corresponding entities or agencies in any applicable jurisdictions to record and register this Patent Assignment and Assignor further agrees to execute and deliver, or cause to be executed and delivered, all documents, certificates, agreements and other writings and take such other actions as may be reasonably necessary or desirable in order to consummate or implement expeditiously the transactions contemplated by this Patent Assignment.

[Signature Pages Follow]

IN WITNESS WHEREOF, each Assignor has caused this Patent Assignment to be duly executed effective as of the day and year first above written.

NOVARTIS PHARMA AG

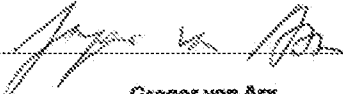
By: 

Name: **J.-M. Séquier**
Business Development & Licensing
Title: **Forum 2.5.01.24**
Tel: 45825 Fax 67179

**NOVARTIS VACCINES AND
DIAGNOSTICS, INC.**

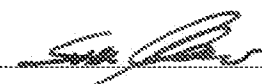
By:

Name:
Title:

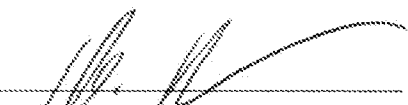
By: 

Name: **Gregor von Arx**
Global Head Legal Neuroscience
& Established Medicines
Title:

NOVARTIS AG

By: 

Name: **Sven Werner**
Gl. BD&L Head Divestments
& Outlicensing
Title:

By: 

Name: **Martin Berchtold**
Senior Legal Counsel
Title:

[Signature Page to Patent Assignment]

IN WITNESS WHEREOF, each Assignor has caused this Patent Assignment to be duly executed effective as of the day and year first above written.

NOVARTIS PHARMA AG

By: _____

Name: _____

Title: _____

By: _____

Name: _____

Title: _____

NOVARTIS AG

By: _____

Name: _____


Title: _____

By: _____

Name: _____

Title: _____

**NOVARTIS VACCINES AND
DIAGNOSTICS, INC.**

By:  _____

Name: Kim Parker

Title: Secretary

[Signature Page to Patent Assignment]

Accepted by:

BGP Products Operations GmbH

By: Joel Glinka

Name: Joel Glinka

Title: Director

[Signature Page to Patent Assignment]

[[3867038]]

Schedule A

Patents

Schedule A to Patent Assignment

Patents

Internal Title	Family Number	List of countries in force (2017)	US Patent Number(s)	Comment/ Drawing (expiration date subject to variability within family)	GRANT BACK
AEROSOLIZATION APPARATUS COMPRISING CONNECTABLE BODY AND ENDPIECE	PAT053292	AT,ES,SE,CH,BE,TR,GB,CZ,DK,FR,DE,GR,IE,IT,NL,PT,RO,KR,MX,JP,CA,HK,US,AU	US Allowed EP1443996 granted	Claims the inhaler comprising a connection mechanism to provide selective connection of the endpiece to the body <i>Co-Owned with PHRT - Novartis can assign only Novartis' interest</i> Expiry November 2022	YES
PULMONARY DELIVERY OF AMINOGLYCOSIDES	PAT053295	US,AT,BE,BG,JP,FR,DE,TW,US,CA,MX,KR,AU,US,LU,NL,CY,CZ,PT,RO,SK,DK,EE,SI,ES,FI,G R,IE,SE,CH,TR,GB,IT,LV,LT	US7368102 US8715623 US9421166	Grant back to aminoglycosides other than Tobramycin Expiry December 2022	YES
AEROSOLIZATION APPARATUS WITH CAPSULE PUNCTURING MEMBER	PAT053314	US	US8869794	Sole patent in family. Relates to staple (cutting edge) configuration (not implemented in Podhaler) Expiry April 2024	YES
AEROSOLIZATION APPARATUS WITH CAPSULE PUNCTURING ALIGNMENT GUIDE	PAT053315	MC,AT,BE,BG,CY,CZ,DK,EE,FI,FR,DE,GR,HU,IE,IT,LT,LU,NL,PL,PT,SK,SI,ES,SE,CH,TR,GB,US,AU,CA,EP,JP,KR,MX	US Pending; on Appeal EP1615689 granted	Claims the inhaler a puncturing mechanism and capsule alignment guide. Expiry April 2024	YES

EXECUTION VERSION

Internal Title	Family Number	List of countries in force (2017)	US Patent Number(s)	Comment/ Drawing (expiration date subject to variability within family)	GRANT BACK
AEROSOLIZATION APPARATUS WITH AIR INLET SHIELD	PAT053316	US,US,BG,CY,EE,FI,HU,LU,MC,PL,SK,SI,AT,BE,CZ,DK,FR,DE,IE,IT,NL,PT,RO,ES,SE,CH,TR,GB,GR,US,AU,CA,EP,JP,KR,MX	US 8069851 US 7559325 US Reissue pending EP on appeal	Covers the inhaler air inlet shield. Expiry April 2024	YES
AEROSOLIZATION APPARATUS WITH FEEDBACK MECHANISM	PAT053308	US	US 7516741	Inhaler with tactile feedback Expiry January 2024 Not implemented in Posthaler	YES
TIP dosage regimen	PAT051764	SE,ZA,KR,LT,LU,NL,PL,PT,RO,SK,SI,ES,AT,BE,CH,TR,GB,BG,HR,CY,CZ,DK,EE,FI,FR,DE,G R,HU,IS,IE,IT,LV,DZ,AU,BR,C A,CN,CO,EG,ID,IL,MX,MA,NZ,NO,PH,RU,US,SG	US 8664187	A method of treating a Pseudomonas aeruginosa endobronchial infection in a cystic fibrosis patient Expiry December 2026	NO
Method of forming a powder comprising perforated microstructures, especially tobramycin inhalation powder (TIP)	PAT052642	CZ	NA	Single remaining family member Expiry September 2018	NO

* Note PAT051505 has expired since the signing of the Asset Purchase Agreement

PATENT

REEL: 047152 FRAME: 0025

Supporting Details

Schedule B

Schedule B to Patent AssignmentSupporting Details

Family PAT051505 - Aminoglycoside Formulation for Aerosolization

Country	Filing No.	Filing Date	Pub. No.	Pub. Date	Grant No.	Grant Date	Expiry Date	Current Status
Australia	39522/95	17 Oct 1995	688166	05 Mar 1998	688166	02 Jul 1998	17 Oct 2015	Expiry date
Austria	PCT/US95/012972	17 Oct 1995	E183080	02 Oct 1996	734249	11 Aug 1999	17 Oct 2015	Expiry date
Belgium	PCT/US95/012972	17 Oct 1995	0734249	11 Aug 1999	EP0734249	11 Aug 1999	17 Oct 2015	Expiry date
Canada	2179305	17 Oct 1995	2179305	31 Oct 2000	2179305	31 Oct 2000	17 Oct 2015	Expiry date
Denmark	PCT/US95/012972	17 Oct 1995	0734249	02 Oct 1996	EP0734249	11 Aug 1999	17 Oct 2015	Expiry date
European Procedure	95937397.8	17 Oct 1995	EP0734249	02 May 1996	EP0734249	11 Aug 1999	17 Oct 2015	Expiry date
France	95937397.8	17 Oct 1995	0734249	02 Oct 1996	EP0734249	11 Aug 1999	17 Oct 2015	Expiry date
Germany	95937397.8	17 Oct 1995	0734249	16 Sep 1999	69511374.7	11 Aug 1999	17 Oct 2015	Expiry date
Greece	95937397.8	17 Oct 1995	0734249	02 Oct 1996	3031770	11 Aug 1999	17 Oct 2015	Expiry date
International Procedure	PCT/US95/012972	17 Oct 1995	WO/1996/012471	02 May 1996				Closed
Ireland	95937397.8	17 Oct 1995	0734249	19 Apr 1996	0734249	11 Aug 1999	17 Oct 2015	Expiry date
Italy	95937397.8	17 Oct 1995	734249	02 May 1996	734249	11 Aug 1999	17 Oct 2015	Expiry date
Japan	2012-700206	27 Dec 2012				19 Mar 2014	27 Jul 2018	Expiry date
Japan	08-513968	17 Oct 1995	3474195	19 Sep 2003	3474195	19 Sep 2003	27 Jul 2018	Expiry date
Luxembourg	95937397.8	17 Oct 1995	734249	02 Oct 1996	EP0734249	11 Aug 1999	17 Oct 2015	Expiry date
Monaco	PCT/US95/012972	17 Oct 1995	0734249	11 Aug 1999	0734249	11 Aug 1999	17 Oct 2015	Expiry date
Country	Filing No.	Filing Date	Pub. No.	Pub. Date	Grant No.	Grant Date	Expiry Date	Current Status

EXECUTION VERSION

Netherlands	959373978	17 Oct 1995	EP 0 734 249	11 Aug 1999	734249	11 Aug 1999	17 Oct 2015	Expiry date
Portugal	PCT/US95/012972	17 Oct 1995	734249	17 Oct 1995	734249	11 Aug 1999	17 Oct 2015	Expiry date
Spain	95937397.8	17 Oct 1995	2136883	01 Dec 1999	EP0734249	11 Aug 1999	17 Oct 2015	Expiry date
Sweden	95937397.8	17 Oct 1995	EP 0 734 249	11 Aug 1999	EP 0 734 249	11 Aug 1999	17 Oct 2015	Expiry date
Switzerland	PCT/US95/012972	17 Oct 1995	734249	02 Oct 1996	EP0734249	11 Aug 1999	17 Oct 2015	Expiry date
United Kingdom	PCT/US95/012972	17 Oct 1995	0734249	02 Oct 1996	EP0734249	11 Aug 1999	17 Oct 2015	Expiry date
United States of America	08/325705	19 Oct 1994	5508269	16 Apr 1996	5508269	16 Apr 1996	19 Oct 2014	Expiry date

Family PAT051784 - TIP dosage regimen

Country	Filing Number	Filing Date	Publication Number	Publication Date	Grant Number	Grant Date	Expiry Date	Current Status
Algeria	060647	20 Jun 2005			4845	30 May 2009		Abandoned
Australia	2005258078	20 Jun 2005			2005258078	13 Jan 2011	20 Jun 2025	Grant
Austria	05766064.9	20 Jun 2005	EP1765288	28 Mar 2007	EP1765288	07 Nov 2012	20 Jun 2025	Grant
Belgium	05766064.9	20 Jun 2005	1765288	28 Mar 2007	EP1765288	07 Nov 2012	20 Jun 2025	Grant
Brazil	PI0512146-9	20 Jun 2005	PI0512146-9	12 Feb 2008				Abandoned
Bulgaria	05766064.9	20 Jun 2005	1765288	28 Mar 2007	EP1765288	07 Nov 2012	20 Jun 2025	Grant
Canada	2570976	20 Jun 2005	2570976	05 Jan 2006	2570976	13 Aug 2013	20 Jun 2025	Grant
China	200580020176.2	20 Jun 2005	101014320	08 Aug 2007	200580020176.2	18 May 2011	20 Jun 2025	Grant
Colombia	06128312	20 Jun 2005						Abandoned
Croatia	05766064.9	20 Jun 2005	1765288	28 Mar 2007	P20130076	07 Nov 2012	20 Jun 2025	Grant
Country	Filing Number	Filing Date	Publication Number	Publication Date	Grant Number	Grant Date	Expiry Date	Current Status

PATENT

REEL: 047152 FRAME: 0028

EXECUTION VERSION

Cyprus (Republic)	05766064.9	20 Jun 2005	1765288	28 Mar 2007	EPI1765288	07 Nov 2012	20 Jun 2025	Grant
Czech Republic	05766064.9	20 Jun 2005	1765288	28 Mar 2007	EPI1765288	07 Nov 2012	20 Jun 2025	Grant
Denmark	05766064.9	20 Jun 2005	1765288	28 Mar 2007	EPI1765288	07 Nov 2012	20 Jun 2025	Grant
Ecuador	07-7182PCT	20 Jun 2005						Abandoned
Egypt	1202/2006	20 Jun 2005						Abandoned
Estonia	05766064.9	20 Jun 2005	E007505	28 Mar 2007	EPI1765288	07 Nov 2012	20 Jun 2025	Publication of grant
European Procedure	05766064.9	20 Jun 2005	1765288	28 Mar 2007	EPI1765288	07 Nov 2012		Expiry of time limit for EP Opposition (EPO Form 2057)
Finland	05766064.9	20 Jun 2005	1765288	28 Mar 2007	EPI1765288	07 Nov 2012	20 Jun 2025	Grant
France	05766064.9	20 Jun 2005	1765288	28 Mar 2007	EPI1765288	07 Nov 2012	20 Jun 2025	Grant
Germany	05766064.9	20 Jun 2005	1765288	28 Mar 2007	602005036894.9	07 Nov 2012	20 Jun 2025	Grant
Greece	05766064.9	20 Jun 2005	EPI1765288	28 Mar 2007	3080011	07 Nov 2012	20 Jun 2025	Grant
Hungary	05766064.9	20 Jun 2005	E017240	28 Mar 2007	EPI1765288	07 Nov 2012	20 Jun 2025	Grant
Iceland	05766064.9	20 Jun 2005	1765288	28 Mar 2007	EPI1765288	07 Nov 2012	20 Jun 2025	Grant
India	133/KOLNP/07	20 Jun 2005						Abandoned
Indonesia	W00200603546	20 Jun 2005			IDP0034089	12 Jul 2013		Abandoned
International Procedure	PCT/US05/021952	20 Jun 2005	WO/2006/002178	05 Jan 2006				Closed
Ireland	05766064.9	20 Jun 2005	1765288	28 Mar 2007	EPI1765288	07 Nov 2012	20 Jun 2025	Grant
Israel	179873	20 Jun 2005			179873	31 Dec 2014	20 Jun 2025	Grant
Italy	05766064.9	20 Jun 2005	1765288	28 Mar 2007	EPI1765288	07 Nov 2012	20 Jun 2025	Grant
Japan	2007-516838	20 Jun 2005	2008-503500	07 Feb 2008				Abandoned
Japan	2012-36405	22 Feb 2012	2012-107047	07 Jun 2012				Abandoned
Country	Filing Number	Filing Date	Publication Number	Publication Date	Grant Number	Grant Date	Expiry Date	Current Status

PATENT

REEL: 047152 FRAME: 0029

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Spain	05766064.9	20 Jun 2005	1765288	28 Mar 2007	EPI765288	07 Nov 2012	20 Jun 2025	Grant
Sweden	05766064.9	20 Jun 2005	1765288	28 Mar 2007	EPI765288	07 Nov 2012	20 Jun 2025	Grant
Switzerland	05766064.9	20 Jun 2005	1765288	28 Mar 2007	EPI765288	07 Nov 2012	20 Jun 2025	Grant
Tunisia	SN06420	20 Jun 2005			19677	25 Apr 2008		Abandoned
Turkey	05766064.9	20 Jun 2005	1765288	28 Mar 2007	TR201301466	07 Nov 2012	20 Jun 2025	Publication of grant
United Arab Emirates	P938/06	20 Jun 2005						Abandoned
United Kingdom	05766064.9	20 Jun 2005	1765288	28 Mar 2007	EPI765288	07 Nov 2012	20 Jun 2025	Grant
United States of America	60/616700	06 Oct 2004						Abandoned
United States of America	12/984110	04 Jan 2011	2011-0097412	28 Apr 2011				Abandoned
United States of America	11/570584	13 Dec 2006	2008-0214481	04 Sep 2008				Abandoned
United States of America	13/404359	24 Feb 2012	2012-0148641	14 Jun 2012	8664187	04 Mar 2014	13 Dec 2026	Grant
United States of America	60/580848	18 Jun 2004						Abandoned

Family PAT052642 - Method of forming a powder comprising perforated microstructures, especially tobramycin inhalation powder (TIP)

Country	Filing Number	Filing Date	Publication Number	Publication Date	Grant Number	Grant Date	Expiry Date	Current Status
Armenia	200200036	29 Sep 1998			003665	28 Aug 2003		Closed
Armenia	200000375	29 Sep 1998			02562	27 Jun 2002		Closed
Australia	96772/98	29 Sep 1998			757153	22 May 2003		Closed
Country	Filing Number	Filing Date	Publication Number	Publication Date	Grant Number	Grant Date	Expiry Date	Current Status
Australia	96770/98	29 Sep 1998			756693	08 May 2003		Closed
Australia	2006200277	23 Jan 2006	2006200277	27 Mar 2008	2006200277	24 Jul		Closed

PATENT

REEL: 047152 FRAME: 0031

EXECUTION VERSION

Australia	2002318867	10 Dec 2002						2008			Closed
Australia	10644/99	29 Sep 1998					757337	22 Nov 2007			Closed
Australia	11857/99	29 Sep 1998					750567	14 Nov 2002			Closed
Australia	2003204270	20 May 2003									Closed
Austria	98953220.5	29 Sep 1998		1019022			1019022	23 Apr 2003			Closed
Azerbaijan	200200036	29 Sep 1998					003665	28 Aug 2003			Closed
Azerbaijan	200000375	29 Sep 1998					02562	27 Jun 2002			Closed
Barbados	81/631	29 Sep 1998					BB0000054A	12 Sep 2002			Closed
Belarus	200000375	29 Sep 1998					02562	27 Jun 2002			Closed
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Bosnia-Herzegovina	BAP00560A	29 Sep 1998									Closed
Brazil	P19812693.8	29 Sep 1998									Closed
Bulgaria	104253	29 Sep 1998					64816	10 Mar 2006			Closed
Canada	2304820	29 Sep 1998									Closed
Canada	2304975	29 Sep 1998									Closed
Canada	2304973	29 Sep 1998									Closed
Canada	2304819	29 Sep 1998					2304819	08 Apr 2008			Closed
Chile	2111/04	29 Sep 1998									Closed
China	98809603.X	29 Sep 1998					98809603.X	06 Oct 2004			Closed
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Croatia	P20000175	29 Sep 1998					P20000175	01 Jun 2004			Closed
Cuba	69/2000	29 Sep 1998									Closed

PATENT

REEL: 047152 FRAME: 0032

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Cyprus (Republic)	98953220.5	29 Sep 1998	1019022	19 Jul 2000	1019022	23 Apr 2003	Closed	
Czech Republic	PV2000-1115	29 Sep 1998			300758	24 Jun 2009	Grant	
Czechoslovakia	PV2000-1115	29 Sep 1998					Closed	
Denmark	98950826.2	29 Sep 1998	1019021	19 Jul 2000	1019021	03 Sep 2003	Closed	
Denmark	98953220.5	29 Sep 1998	1019022	19 Jul 2000	1019022	23 Apr 2003	Closed	
Estonia	P200000194	29 Sep 1998			EE04628B1	15 Jun 2006	Closed	
Eurasian Procedure	200200036	29 Sep 1998			003665	28 Aug 2003	Closed	
Eurasian Procedure	200000375	29 Sep 1998			02562	27 Jun 2002	Closed	
European Procedure	98950824.7	29 Sep 1998	1019020	19 Jul 2000			Closed	
European Procedure	98954933.2	29 Sep 1998	1019023	19 Jul 2000	1019023	07 May 2003	Closed	
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European Procedure	98953220.5	29 Sep 1998	1019022	19 Jul 2000	1019022	23 Apr 2003	Closed	
Finland	98950826.2	29 Sep 1998	1019021	19 Jul 2000	1019021	03 Sep 2003	Closed	
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France	98950826.2	29 Sep 1998	1019021	19 Jul 2000	1019021	03 Sep 2003	Closed	
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France	98953220.5	29 Sep 1998	1019022	19 Jul 2000	1019022	23 Apr 2003	Closed	
Georgia	1998003921	29 Sep 1998			2782	25 Sep 2002	Closed	
Country	Filing Number	Filing Date	Publication Number	Publication Date	Grant Number	Grant Date	Expiry Date	Current Status
Germany	98954933.2	29 Sep 1998	1019023	19 Jul 2000	1019023	07 May 2003	Closed	
Germany	98950826.2	29 Sep 1998	1019021	19 Jul 2000	1019021	03 Sep 2003	Closed	

PATENT

REEL: 047152 FRAME: 0033

EXECUTION VERSION

Germany	98953220.5	29 Sep 1998	1019022	19 Jul 2000	1019022	23 Apr 2003	Closed	
Greece	98953220.5	29 Sep 1998	1019022	19 Jul 2000	1019022	23 Apr 2003	Closed	
Grenada	PCT/US98/020602	29 Sep 1998					Closed	
Hong Kong	01100524.4	19 Jan 2001	HK1031680	22 Jun 2001	1031680	05 Mar 2004	Closed	
Hong Kong	01100526.2	19 Jan 2001	HK1031682	22 Jun 2001			Closed	
Hong Kong	01100527.1	19 Jan 2001	HK1031683	22 Jun 2001			Closed	
Hong Kong	01100525.3	19 Jan 2001	HK1031681	22 Jun 2001			Closed	
Hungary	P0002478	29 Sep 1998					Closed	
Iceland	5415	29 Sep 1998			2154	13 Oct 2000	Closed	
Indonesia	WO20000603	29 Sep 1998			ID0012315	12 Dec 2000	Closed	
International Procedure	PCT/US98/020603	29 Sep 1998	WO1999/016420	08 Apr 1999			Closed	
International Procedure	PCT/US98/020613	29 Sep 1998	WO1999/016421	08 Apr 1999			Closed	
International Procedure	PCT/US98/020602	29 Sep 1998	WO1999/016419	08 Apr 1999			Closed	
International Procedure	PCT/US98/020615	29 Sep 1998	WO1999/016422	08 Apr 1999			Closed	
Ireland	98950826.2	29 Sep 1998	1019021	19 Jul 2000	1019021	03 Sep 2003	Closed	
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Israel	135126	29 Sep 1998			135126	11 Jul 2006	Closed	
Italy	98954933.2	29 Sep 1998	1019023	19 Jul 2000	1019023	07 May 2003	Closed	
Italy	98950826.2	29 Sep 1998	1019021	19 Jul 2000	1019021	03 Sep 2003	Closed	
Italy	98953220.5	29 Sep 1998	1019022	19 Jul 2000	1019022	23 Apr 2003	Closed	
Country	Filing Number	Filing Date	Publication Number	Publication Date	Grant Number	Grant Date	Expiry Date	Current Status
Japan	2000-513558	29 Sep 1998						Closed
Japan	2000-513557	29 Sep 1998						Closed
Japan	2000-513560	29 Sep 1998	2003-525842	02 Sep 2003				Closed

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REEL: 047152 FRAME: 0034

EXECUTION VERSION

Poland	P339732	29 Sep 1998				195212	20 Dec 2000	Closed
Portugal	98953220.5	29 Sep 1998	1019022	19 Jul 2000		1019022	23 Apr 2003	Closed
Russian Federation	200200036	29 Sep 1998				003665	28 Aug 2003	Closed
Russian Federation	200000375	29 Sep 1998				02562	27 Jun 2002	Closed
Saint Lucia	PCT/US98/020602	29 Sep 1998						Closed
Serbia	P-183/00	29 Sep 1998						Closed
Sierra Leone	PCT/US98/020602	29 Sep 1998						Closed
Singapore	200001400.1	29 Sep 1998				71625	26 Mar 2002	Closed
Slovakia	PV0449-2000	29 Sep 1998				285068	30 Mar 2006	Closed
South Korea / Republic of Korea	2000-7003401	29 Sep 1998				575070	24 Apr 2006	Closed
South Korea / Republic of Korea	2000-7003416	29 Sep 1998	2001-0030810	16 Apr 2001		572171	12 Apr 2006	Closed
South Korea / Republic of Korea	2000-7003367	29 Sep 1998				589926	08 Jun 2006	Closed
South Korea / Republic of Korea	2000-7003368	29 Sep 1998				599634	05 Jul 2006	Closed
Spain	98954933.2	29 Sep 1998	1019023	19 Jul 2000		1019023	07 May 2003	Closed
Spain	98950826.2	29 Sep 1998	1019021	19 Jul 2000		1019021	03 Sep 2003	Closed
Spain	98953220.5	29 Sep 1998	1019022	19 Jul 2000		1019022	23 Apr 2003	Closed
Sri Lanka	12041	29 Sep 1998						Closed
Sweden	98953220.5	29 Sep 1998	1019022	19 Jul 2000		1019022	23 Apr 2003	Closed
Country	Filing Number	Filing Date	Publication Number	Publication Date	Grant Number	Grant Date	Expiry Date	Current Status
Sweden	98950826.2	29 Sep 1998	1019021	19 Jul 2000		1019021	03 Sep 2003	Closed
Switzerland	98953220.5	29 Sep 1998	1019022	19 Jul 2000		1019022	23 Apr 2003	Closed
Switzerland	98950826.2	29 Sep 1998	1019021	19 Jul 2000		1019021	03 Sep 2003	Closed
Tajikistan	200000375	29 Sep 1998				02562	27 Jun	Closed

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REEL: 047152 FRAME: 0036

EXECUTION VERSION

United States of America	11/317839	22 Dec 2005	2006-0165606A1	27 Jul 2006				Closed
United States of America	09/218212	29 Sep 1998			6309623	30 Oct 2001		Closed
United States of America	11/675073	14 Feb 2007	2007-0212405A1	13 Sep 2007	7393544	01 Jul 2008		Closed
United States of America	09/133848	14 Aug 1998						Abandoned
United States of America	10/644265	19 Aug 2003	2004-0170568A1	02 Sep 2004				Closed
United States of America	10/612393	02 Jul 2003	2005-0074498A1	07 Apr 2005				Closed
United States of America	10/096780	12 Mar 2002	2003-0064029A1	03 Apr 2003	7306787	11 Dec 2007		Closed
United States of America	12/154731	27 May 2008						Closed
United States of America	09/106932	29 Jun 1998						Closed
United States of America	09/218213	29 Sep 1998			6946117	20 Sep 2005		Closed
United States of America	09/218209	29 Sep 1998			6433040	13 Aug 2002		Closed
Uzbekistan	20000320	29 Sep 1998				30 Aug 2007		Closed
Vietnam	1-2000-0396	29 Sep 1998			3552	19 May 2003		Closed

Family PAT053292 - AEROSOLIZATION APPARATUS COMPRISING CONNECTABLE BODY AND ENDPIECE

Country	Filing Number	Filing Date	Publication Number	Publication Date	Grant Number	Grant Date	Expiry Date	Current Status
Australia	2002340481	14 Nov 2002	2002340481	07 Jul 2008	2002340481	17 Jul 2008	14 Nov 2022	Grant
Austria	02778846.2	14 Nov 2002	E509651	11 Aug 2004	EP1443996	18 May 2011	14 Nov 2022	Grant
Belgium	02778846.2	14 Nov 2002	1443996	11 Aug 2004	EP1443996	18 May 2011	14 Nov 2022	Grant

EXECUTION VERSION

Canada	2465603	14 Nov 2002	2465603	22 May 2003	2465603	2011	2022	Grant
Czech Republic	02778846.2	14 Nov 2002	1443996	11 Aug 2004	EP1443996	18 May 2011	14 Nov 2022	Grant
Denmark	02778846.2	14 Nov 2002	1443996	11 Aug 2004	EP1443996	18 May 2011	14 Nov 2022	Grant
European Procedure	02778846.2	14 Nov 2002	1443996	11 Aug 2004	EP1443996	18 May 2011		Expiry of time limit for EP Opposition (EPO Form 2057)
France	02778846.2	14 Nov 2002	1443996	11 Aug 2004	EP1443996	18 May 2011	14 Nov 2022	Grant
Germany	02778846.2	14 Nov 2002	1443996	11 Aug 2004	60240091.0-08	18 May 2011	14 Nov 2022	Grant
Greece	02778846.2	14 Nov 2002	1443996	11 Aug 2004	3075727	18 May 2011	14 Nov 2022	Grant
Hong Kong	05101140.2	12 Feb 2005	1068819	04 Nov 2011	1068819	04 Nov 2011	14 Nov 2022	Grant
International Procedure	PCT/US02/036801	14 Nov 2002	WO2003/041776	22 May 2003				Abandoned
Ireland	02778846.2	14 Nov 2002	1443996	11 Aug 2004	EP1443996	18 May 2011	14 Nov 2022	Grant
Italy	02778846.2	14 Nov 2002	1443996	11 Aug 2004	26831/BE/2011	18 May 2011	14 Nov 2022	Grant
Japan	2003-543662	14 Nov 2002	2005-508716	07 Apr 2005	4437040	08 Jan 2010	14 Nov 2022	Grant
Mexico	PA/A/04/004631	14 Nov 2002			271787	12 Nov 2009	14 Nov 2022	Grant
Netherlands	02778846.2	14 Nov 2002	1443996	11 Aug 2004	EP1443996	18 May 2011	14 Nov 2022	Grant
Portugal	02778846.2	14 Nov 2002	1443996	11 Aug 2004	EP1443996	18 May 2011	14 Nov 2022	Grant
Country	Filing Number	Filing Date	Publication Number	Publication Date	Grant Number	Grant Date	Expiry Date	Current Status
Romania	02778846.2	14 Nov 2002	1443996	11 Aug 2004	EP1443996	18 May 2011	14 Nov 2022	Grant
South Korea / Republic of Korea	2004-7007324	14 Nov 2002			0954002	13 Apr 2010	14 Nov 2022	Grant
Spain	02778846.2	14 Nov 2002	1443996	11 Aug 2004	EP1443996	18 May 2011	14 Nov 2022	Grant
Sweden	02778846.2	14 Nov 2002	1443996	11 Aug 2004	EP1443996	18 May 2011	14 Nov 2022	Grant

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REEL: 047152 FRAME: 0039

EXECUTION VERSION

Switzerland	02778846.2	14 Nov 2002	1443996	11 Aug 2004	EP1443996	2011	2022	Grant
Turkey	02778846.2	14 Nov 2002	1443996	11 Aug 2004	TR201107578	18 May 2011	14 Nov 2022	Publication of grant
United Kingdom	02778846.2	14 Nov 2002	1443996	11 Aug 2004	EP1443996	18 May 2011	14 Nov 2022	Grant
United States of America	10/298177	14 Nov 2002	2003-0150454	14 Aug 2003			14 Nov 2022	Allowed
United States of America	60/336320	14 Nov 2001					14 Nov 2002	Expiry date

Family PAT053295 - PULMONARY DELIVERY OF AMINOGLYCOSIDES

Australia	2002361897	19 Dec 2002	2002361897	27 Sep 2007	2002361897	10 Jan 2008	19 Dec 2022	Grant
Austria	02797527.5	19 Dec 2002	EP1458360	22 Sep 2004	E508735	11 May 2011	19 Dec 2022	Grant
Belgium	02797527.5	19 Dec 2002	1458360	22 Sep 2004	EP1458360	11 May 2011	19 Dec 2022	Grant
Bulgaria	02797527.5	19 Dec 2002	1458360	22 Sep 2004	1458360	11 May 2011	19 Dec 2022	Grant
Canada	2468958	19 Dec 2002			2468958	03 Jul 2012	19 Dec 2022	Grant
Cyprus (Republic)	02797527.5	19 Dec 2002	1458360	22 Sep 2004	EP1458360	11 May 2011	19 Dec 2022	Grant
Czech Republic	02797527.5	19 Dec 2002	1458360	22 Sep 2004	EP1458360	11 May 2011	19 Dec 2022	Grant
Denmark	02797527.5	19 Dec 2002	1458360	22 Sep 2004	EP1458360	11 May 2011	19 Dec 2022	Grant
Estonia	02797527.5	19 Dec 2002	1458360	22 Sep 2004	EP1458360	11 May 2011	19 Dec 2022	Grant
European Procedure	02797527.5	19 Dec 2002	1458360	22 Sep 2004	EP1458360	11 May 2011		Expiry of time limit for EP Opposition (EPO Form 2057)

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REEL: 047152 FRAME: 0040

EXECUTION VERSION

Finland	02797527.5	19 Dec 2002	1458360	22 Sep 2004	EP1458360	11 May 2011	19 Dec 2022	Grant
France	02797527.5	19 Dec 2002	1458360	22 Sep 2004	EP1458360	11 May 2011	19 Dec 2022	Grant
Germany	02797527.5	19 Dec 2002	EP1458360	22 Sep 2004	60240028.7	11 May 2011	19 Dec 2022	Grant
Greece	02797527.5	19 Dec 2002	EP1458360	22 Sep 2004	3075445	11 May 2011	19 Dec 2022	Grant
International Procedure	PCT/US02/41733	19 Dec 2002	WO2003/053411	03 Jul 2003				Abandoned
Ireland	02797527.5	19 Dec 2002	1458360	22 Sep 2004	EP1458360	11 May 2011	19 Dec 2022	Grant
Italy	02797527.5	19 Dec 2002	1458360	22 Sep 2004	26915/BE/2011	11 May 2011	19 Dec 2022	Grant
Japan	2010-227834	07 Oct 2010	2011-001389	06 Jan 2011	5351120	30 Aug 2013	19 Dec 2022	Publication of grant
Japan	2003-554170	19 Dec 2002	2005-514393	19 May 2005				Abandoned
Latvia	02797527.5	19 Dec 2002	1458360	22 Sep 2004	EP1458360	11 May 2011	19 Dec 2022	Grant
Lithuania	02797527.5	19 Dec 2002	1458360	22 Sep 2004	EP1458360	11 May 2011	19 Dec 2022	Grant
Luxembourg	02797527.5	19 Dec 2002	1458360	22 Sep 2004	EP1458360	11 May 2011	19 Dec 2022	Grant
Mexico	PA/A/04/005865	19 Dec 2002		01 Nov 2004	262015	07 Nov 2008	19 Dec 2022	Grant
Netherlands	02797527.5	19 Dec 2002	1458360	22 Sep 2004	EP1458360	11 May 2011	19 Dec 2022	Grant
Portugal	02797527.5	19 Dec 2002	1458360	22 Sep 2004	EP1458360	11 May 2011	19 Dec 2022	Grant
Romania	02797527.5	19 Dec 2002	1458360	22 Sep 2004	EP1458360	11 May 2011	19 Dec 2022	Grant
Country	Filing Number	Filing Date	Publication Number	Publication Date	Grant Number	Grant Date	Expiry Date	Current Status
Slovakia	02797527.5	19 Dec 2002	1458360	22 Sep 2004	E9856	11 May 2011	19 Dec 2022	Grant
Slovenia	02797527.5	19 Dec 2002	1458360	22 Sep 2004	EP1458360	11 May 2011	19 Dec 2022	Grant
South Korea / Republic of Korea	2004-7009770	19 Dec 2002	2004-0075897	30 Aug 2004	0958235	07 May 2010	19 Dec 2022	Grant
Spain	02797527.5	19 Dec 2002	1458360	22 Sep 2004	EP1458360	11 May 2011	19 Dec 2022	Grant
Sweden	02797527.5	19 Dec 2002	1458360	22 Sep 2004	EP1458360	11 May 2011	19 Dec 2022	Grant

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REEL: 047152 FRAME: 0041

EXECUTION VERSION

Switzerland	02797527.5	19 Dec 2002	1458360	22 Sep 2004	EP1458360	2011	19 Dec 2022	Grant
Taiwan	91136704	19 Dec 2002	2003-01131	01 Jul 2003	I324518	11 May 2011	19 Dec 2022	Grant
Turkey	02797527.5	19 Dec 2002	1458360	22 Sep 2004	TR201107584	11 May 2011	19 Dec 2022	Publication of grant
United Kingdom	02797527.5	19 Dec 2002	1458360	22 Sep 2004	EP1458360	11 May 2011	19 Dec 2022	Grant
United States of America	14/247546	08 Apr 2014	2014-0206638	24 Jul 2014	9421166	23 Aug 2016	08 Mar 2023	Grant
United States of America	60/342827	19 Dec 2001					19 Dec 2002	Expiry date
United States of America	11/981986	31 Oct 2007	2008-0063606	13 Mar 2008	8715623	06 May 2014	19 Dec 2022	Grant
United States of America	10/327510	19 Dec 2002	2003-0129140	10 Jul 2003	7368102	06 May 2008	19 Dec 2022	Grant

Family PAT053308 - AEROSOLIZATION APPARATUS WITH FEEDBACK MECHANISM

Country	Filing Number	Filing Date	Publication Number	Publication Date	Grant Number	Grant Date	Expiry Date	Current Status
United States of America	10/704160	07 Nov 2003	2005-0051166	10 Mar 2005	7516741	14 Apr 2009	11 Jan 2024	Grant
United States of America	60/431,383	06 Dec 2002					06 Dec 2003	Expiry date

Family PAT053314 - AEROSOLIZATION APPARATUS WITH CAPSULE PUNCTURING MEMBER

Country	Filing Number	Filing Date	Publication Number	Publication Date	Grant Number	Grant Date	Expiry Date	Current Status
United States of America	60/461,732	09 Apr 2003					09 Apr 2004	Expiry date
United States of America	10/821652	09 Apr 2004			8869794	28 Oct 2014	09 Apr 2024	Grant

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REEL: 047152 FRAME: 0042

EXECUTION VERSION

Family PAT053315 - AEROSOLIZATION APPARATUS WITH CAPSULE PUNCTURING ALIGNMENT GUIDE

Country	Filing Number	Filing Date	Publication Number	Publication Date	Grant Number	Grant Date	Expiry Date	Current Status
Australia	2004229512	09 Apr 2004	2004229512	11 Feb 2010	2004229512	27 May 2010	09 Apr 2024	Grant
Austria	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	E773357	03 Feb 2016	09 Apr 2024	Grant
Belgium	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	EP1615689	03 Feb 2016	09 Apr 2024	Grant
Bulgaria	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	EP1615689	03 Feb 2016	09 Apr 2024	Grant
Canada	2520265	09 Apr 2004			2520265	17 Feb 2015	09 Apr 2024	Grant
Cyprus (Republic)	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	20161100329	03 Feb 2016	09 Apr 2024	Grant
Czech Republic	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	EP1615689	03 Feb 2016	09 Apr 2024	Publication of grant
Denmark	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	EP1615689	03 Feb 2016	09 Apr 2024	Grant
Estonia	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	E74963	03 Feb 2016	09 Apr 2024	Grant
European Procedure	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	EP1615689	03 Feb 2016		Expiry of time limit for EP Opposition (EPO Form 2057)
Finland	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	EP1615689	03 Feb 2016	09 Apr 2024	Grant
France	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	EP1615689	03 Feb 2016	09 Apr 2024	Grant
Country	Filing Number	Filing Date	Publication Number	Publication Date	Grant Number	Grant Date	Expiry Date	Current Status
Germany	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	602004048602.7	03 Feb 2016	09 Apr 2024	Grant
Greece	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	3088514	03 Feb 2016	09 Apr 2024	Grant
Hungary	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	E026950	03 Feb 2016	09 Apr 2024	Grant
International Procedure	PCT/US04/1234	09 Apr 2004		28 Oct 2004				Abandoned
Ireland	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	EP1615689	03 Feb 2016	09 Apr 2024	Grant

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REEL: 047152 FRAME: 0043

EXECUTION VERSION

Italy	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	502016000019886	03 Feb 2016	09 Apr 2024	Grant
Japan	2006-509933	09 Apr 2004	2006-522672	05 Oct 2006	4542090	02 Jul 2010	09 Apr 2024	Grant
Lithuania	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	EP1615689	03 Feb 2016	09 Apr 2024	Grant
Luxembourg	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	EP1615689	03 Feb 2016	09 Apr 2024	Grant
Mexico	PA/A/2005/010835	09 Apr 2004			268104	08 Jul 2009	09 Apr 2024	Grant
Monaco	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	EP1615689	03 Feb 2016	09 Apr 2024	Grant
Netherlands	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	EP1615689	03 Feb 2016	09 Apr 2024	Grant
Poland	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	EP1615689	03 Feb 2016	09 Apr 2024	Grant
Portugal	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	EP1615689	03 Feb 2016	09 Apr 2024	Grant
Slovakia	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	E20400	03 Feb 2016	09 Apr 2024	Grant
Slovenia	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	P200432314	03 Feb 2016	09 Apr 2024	Grant
South Korea/ Republic of Korea	2005-7019096	09 Apr 2004			1066737	15 Sep 2011	09 Apr 2024	Grant
Spain	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	EP1615689	03 Feb 2016	09 Apr 2024	Grant
Sweden	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	EP1615689	03 Feb 2016	09 Apr 2024	Grant
Country	Filing Number	Filing Date	Publication Number	Publication Date	Grant Number	Grant Date	Expiry Date	Current Status
Switzerland	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	EP1615689	03 Feb 2016	09 Apr 2024	Grant
Turkey	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	TR201604932T4	03 Feb 2016	09 Apr 2024	Grant
United Kingdom	04750009.5	09 Apr 2004	EP1615689	18 Jan 2006	EP1615689	03 Feb 2016	09 Apr 2024	Grant
United States of America	10/821624	09 Apr 2004	2005-0000518	06 Jan 2005			09 Apr 2024	Appeal Filed (PT)
United States of America	60/461,748	09 Apr 2003					09 Apr 2004	Expiry date

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REEL: 047152 FRAME: 0044

EXECUTION VERSION

Family PAT053316 - AEROSOLIZATION APPARATUS WITH AIR INLET SHIELD

Country	Filing Number	Filing Date	Publication Number	Publication Date	Grant Number	Grant Date	Expiry Date	Current Status
Australia	2004229446	09 Apr 2004	2004229446	25 Feb 2010	2004229446	10 Jun 2010	09 Apr 2024	Grant
Austria	4759324.9	09 Apr 2004	1610850	04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Publication of grant
Belgium	4759324.9	09 Apr 2004	1610850	04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant
Bulgaria	4759324.9	09 Apr 2004	1610850	04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant
Canada	2520032	09 Apr 2004			2520032	16 Oct 2012	09 Apr 2024	Grant
Cyprus (Republic)	4759324.9	09 Apr 2004		04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant
Czech Republic	4759324.9	09 Apr 2004	1610850	04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant
Denmark	4759324.9	09 Apr 2004	1610850	04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant
Estonia	4759324.9	09 Apr 2004		04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant
European Procedure	04759324.9	09 Apr 2004	EP1610850	04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Appeal Filed (PT)
Finland	04759324.9	09 Apr 2004		04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant
Country	Filing Number	Filing Date	Publication Number	Publication Date	Grant Number	Grant Date	Expiry Date	Current Status
France	04759324.9	09 Apr 2004	1610850	04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant
Germany	04759324.9	09 Apr 2004	1610850	04 Jan 2006	602004036916.0	14 Mar 2012	09 Apr 2024	Grant
Greece	4759324.9	09 Apr 2004		04 Jan 2006	3078218	14 Mar 2012	09 Apr 2024	Grant
Hungary	04759324.9	09 Apr 2004	E016235	04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant
International Procedure	PCT/US04/10928	09 Apr 2004		28 Oct 2004				Abandoned
Ireland	4759324.9	09 Apr 2004	1610850	04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant

PATENT

REEL: 047152 FRAME: 0045

EXECUTION VERSION

Italy	4759324.9	09 Apr 2004	1610850	04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant
Japan	2006-509841	09 Apr 2004	2006-522663	05 Oct 2006	4943838	09 Mar 2012	09 Apr 2024	Grant
Luxembourg	4759324.9	09 Apr 2004		04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant
Mexico	PA/A/2005/010842	09 Apr 2004			266218	22 Apr 2009	09 Apr 2024	Grant
Monaco	4759324.9	09 Apr 2004		04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant
Netherlands	4759324.9	09 Apr 2004	1610850	04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant
Poland	4759324.9	09 Apr 2004	1610850	04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant
Portugal	4759324.9	09 Apr 2004	1610850	04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant
Romania	4759324.9	09 Apr 2004	1610850	04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant
Slovakia	4759324.9	09 Apr 2004		04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant
Slovenia	4759324.9	09 Apr 2004		04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant
South Korea / Republic of Korea	2005-7019191	09 Apr 2004			1066788	15 Sep 2011	09 Apr 2024	Grant
Spain	4759324.9	09 Apr 2004	1610850	04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant
Country	Filing Number	Filing Date	Publication Number	Publication Date	Grant Number	Grant Date	Expiry Date	Current Status
Sweden	4759324.9	09 Apr 2004	1610850	04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant
Switzerland	4759324.9	09 Apr 2004	1610850	04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant
Turkey	4759324.9	09 Apr 2004	1610850	04 Jan 2006	TR201206133	14 Mar 2012	09 Apr 2024	Publication of grant
United Kingdom	4759324.9	09 Apr 2004	1610850	04 Jan 2006	EP1610850	14 Mar 2012	09 Apr 2024	Grant
United States of America	10/822850	09 Apr 2004	2005-0150492	14 Jul 2005	7559325	14 Jul 2009	27 Oct 2025	Grant
United States of America	14/098403	05 Dec 2013					09 Apr 2023	Filed
United States of America	60/461679	09 Apr 2003					09 Apr 2004	Expiry date

PATENT

REEL: 047152 FRAME: 0046

EXECUTION VERSION

United States of America	12/456807	22 Jun 2009	2009-0260623	22 Oct 2009	8069851	06 Dec 2011	24 Sep 2024	Grant
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