

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3600054

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
NOVARTIS AG	07/28/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NOVARTIS PHARMA AG
<b>Street Address:</b>	POSTFACH
<b>City:</b>	BASEL
<b>State/Country:</b>	SWITZERLAND
<b>Postal Code:</b>	4002
<b>PROPERTY NUMBERS Total: 10</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14386174
Application Number:	13530919
Application Number:	13775963
Application Number:	12950649
Application Number:	10877534
Application Number:	14342810
Application Number:	14342813
Patent Number:	8246953
Patent Number:	8486661
Patent Number:	7879322
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(760)720-1330
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	760-720-1330
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<b>Correspondent Name:</b>	WOLFF IP, A PROF. CORP.
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<b>Address Line 4:</b>	CARLSBAD, CALIFORNIA 92008
<b>ATTORNEY DOCKET NUMBER:</b>	BGS649 BPS804 BCT197

<b>NAME OF SUBMITTER:</b>	JESSICA R. WOLFF
<b>SIGNATURE:</b>	/Jessica R. Wolff/
<b>DATE SIGNED:</b>	11/03/2015
<b>Total Attachments: 16</b> source=Novartis AG to Novartis Pharma AG Mereo Patent Assignment#page1.tif source=Novartis AG to Novartis Pharma AG Mereo Patent Assignment#page2.tif source=Novartis AG to Novartis Pharma AG Mereo Patent Assignment#page3.tif source=Novartis AG to Novartis Pharma AG Mereo Patent Assignment#page4.tif source=Novartis AG to Novartis Pharma AG Mereo Patent Assignment#page5.tif source=Novartis AG to Novartis Pharma AG Mereo Patent Assignment#page6.tif source=Novartis AG to Novartis Pharma AG Mereo Patent Assignment#page7.tif source=Novartis AG to Novartis Pharma AG Mereo Patent Assignment#page8.tif source=Novartis AG to Novartis Pharma AG Mereo Patent Assignment#page9.tif source=Novartis AG to Novartis Pharma AG Mereo Patent Assignment#page10.tif source=Novartis AG to Novartis Pharma AG Mereo Patent Assignment#page11.tif source=Novartis AG to Novartis Pharma AG Mereo Patent Assignment#page12.tif source=Novartis AG to Novartis Pharma AG Mereo Patent Assignment#page13.tif source=Novartis AG to Novartis Pharma AG Mereo Patent Assignment#page14.tif source=Novartis AG to Novartis Pharma AG Mereo Patent Assignment#page15.tif source=Novartis AG to Novartis Pharma AG Mereo Patent Assignment#page16.tif	

## ASSIGNMENT

This Assignment Agreement is made on July 28, 2015("Assignment") by and between

NOVARTIS AG, a Swiss corporation with its principal place of business at Lichstrasse 35, 4056 Basel, Switzerland, Switzerland ("Assignor") and NOVARTIS PHARMA AG, Postfach, 4002 Basel, Switzerland ("Assignee").

For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, NOVARTIS AG does hereby sell, assign and transfer to NOVARTIS PHARMA AG and its successors, assigns and legal representatives (hereinafter referred to collectively as the "ASSIGNEE"), all of its right, title and interest for all countries of the world in and to

(1) all inventions and discoveries listed in the patents and applications listed in Schedule I attached hereto;

(2) the applications identified in paragraph (1), and all applications claiming priority from such applications, directly or indirectly, including all national stages of any international patent applications;

(3) the right to file patent, utility model, or other applications on any invention or discovery disclosed in any of the applications identified in paragraphs (1) and (2), including the right to file such applications on said inventions and discoveries in the names of ASSIGNEE or their designees, or on behalf or in the name(s) of the inventor(s) of said inventions and discoveries, at ASSIGNEE's election and in accordance with applicable law in all countries and regions; and the right to file all patent, utility model, or other applications in all countries and regions claiming the priority of any of the provisional or non-provisional applications identified in paragraphs (1) or (2);

(4) all rights to claim priority from any of the applications referred to in paragraphs (1), (2), and (3) or from any application from which any of the applications referred to in paragraphs (1), (2) and (3) claim priority in all countries and regions under the Paris Convention for the Protection of Industrial Property, the WTO GATT TRIPS Agreement, the Inter-American Convention relating to Inventions, Patents, Designs, and Industrial Models and all other international agreements to which the United States now is or hereafter becomes a signatory and, if the United States patent application is a provisional patent application, under 35 USC 119(e);

(5) all continuations, continuations-in-part, and divisionals of any United States patent applications or international patent applications designating the United States, any national stages of any international applications, and any other patent applications described in paragraphs (1) through (4) hereof, including further continuations, continuations-in-part, and divisionals such as, but not limited to, continuations of continuations and continuations of divisionals;

(6) all patents, utility models, or other grants that issue from any of the applications referred to herein and all rights and remedies associated therewith including the right to sue for

and recover past damages and to recover under 35 U.S.C. § 154 (d) or any other law permitting remedies for infringement prior to issuance of the patent;

(7) all registrations and confirmations of, and importation certificates based upon, one or more of said patents, utility models, or other grants, and applications for such registrations, confirmations and importation certificates and;

(8) all reissues, renewals and extensions of said patents, utility models, registrations, confirmations and importation certificates, reexamination certificates issued for said patents and supplementary protection certificates based upon said patents and applications for such reissues, renewals, extensions, reexamination certificates and supplementary protection certificates, the same to be held and enjoyed by said ASSIGNEE to the full ends of the terms for which said patents, utility models, registrations, confirmations, importation certificates, reexamination certificates, supplementary protection certificates, reissues, renewals and extensions may be granted, as fully and entirely as the same would have been held and enjoyed by NOVARTIS AG if this sale, assignment and transfer had not been made.

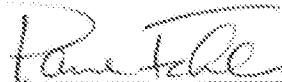
NOVARTIS AG hereby covenants and agrees that it will, at any time, (i) upon the request, but at the expense, of ASSIGNEE, execute and deliver all documents that may be necessary or desirable to perfect the title to the foregoing inventions and discoveries, applications, patents, utility models, registrations, confirmations, importation certificates, reissues, renewals, extensions, reexamination certificates, supplementary protection certificates, and applications within the scope of (7) and (8), in ASSIGNEE, including the execution and procurement of all further documents evidencing this sale, assignment and transfer as may be necessary or desirable for recording the same in the patent office or other intellectual property office, agency or the like of any country or region, (ii) upon the request, but at the expense, of ASSIGNEE execute all additional applications within the scope of paragraphs (1) through (6) and all applications within the scope of (7) or (8), and (iii) make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein, without further compensation, but at the expense of ASSIGNEE.


Should any provision of this Assignment be deemed invalid or unenforceable by reason of any law, statute, regulation or judgment, existing now or in the future in any jurisdiction, such provision shall be modified in such jurisdiction so as to nearly approximate the intent of the Parties. If this cannot be done, such invalid or unenforceable provision shall be divisible and be deleted in any such jurisdiction, and all other provisions shall remain in full force and effect. The modification or deletion of any provision in one jurisdiction shall have no effect on this Assignment in any other jurisdiction.

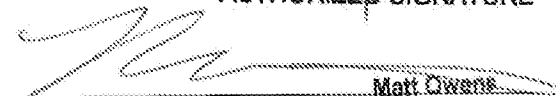
Executed this 28<sup>th</sup> day of July, 2015

**SIGNATURE PAGE TO FOLLOW**

SIGNATURE PAGE

  
Novartis AG  
Print Name: Paul Fehner

  
Novartis AG  
Print Name: SEAN REILLY  
AUTHORIZED SIGNATURE

  
Novartis Pharma AG  
Print Name: Matt Owens  
Global Head Legal-  
Strategic Partnerships & Digital Medicine

  
Novartis Pharma AG  
Print Name: Paul Fehner

**Schedule 1**  
*[see attached]*

BPSS804 PAT052279

Family Number	City	Type	Filing Date	Filing Number	Grant Number	Grant Date	Expiry
PAT052279-AR-NP	AR	NP1	09 Oct 2008	P080104421	AR068767B1	27 Apr 2012	09 Oct 2028
PAT052279-AT-EPT	AT	EPT1	10 Oct 2008	08838428.4	E641187	20 Nov 2013	10 Oct 2028
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PAT052279-IE-EPT	IE	EPT1	10 Oct 2008	08838428.4	EP2203478	20 Nov 2013	10 Oct 2028
PAT052279-IL-PCT	IL	PCT1	10 Oct 2008	204510	204510	04 May 2013	10 Oct 2028
PAT052279-IN-PCT	IN	PCT1	10 Oct 2008	2067/DELNP/10			10 Oct 2028
PAT052279-IQ-NP	IQ	NP1	08 Oct 2008	251/2008	3722	12 Dec 2013	25 Sep 2030
PAT052279-IS-EPT	IS	EPT1	10 Oct 2008	08838428.4	EP2203478	20 Nov 2013	10 Oct 2028
PAT052279-IT-EPT	IT	EPT1	10 Oct 2008	08838428.4	EP2203478	20 Nov 2013	10 Oct 2028
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PAT052279-LU-EPT	LU	EPT1	10 Oct 2008	08838428.4	EP2203478	20 Nov 2013	10 Oct 2028
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PAT052279-MA-PCT	MA	PCT1	10 Oct 2008	PV32750	31760	01 Oct 2010	10 Oct 2028
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PAT052279-MT-EPT	MT	EPT1	10 Oct 2008	08838428.4	EP2203478	20 Nov 2013	10 Oct 2028
PAT052279-MX-PCT	MX	PCT1	10 Oct 2008	MX/A/10/003915	305531	26 Nov 2012	10 Oct 2028
PAT052279-MY-PCT	MY	PCT1	10 Oct 2008	PI2010001149	MY-152282-A	15 Sep 2014	10 Oct 2028
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PAT052279-RO-EPT	RO	EPT1	10 Oct 2008	08838428.4	EP2203478	20 Nov 2013	10 Oct 2028
PAT052279-RU-EAT	RU	EAT1	10 Oct 2008	201000559	018756	30 Oct 2013	10 Oct 2028
PAT052279-SE-EPT	SE	EPT1	10 Oct 2008	08838428.4	EP2203478	20 Nov 2013	10 Oct 2028
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PAT052279-TN-PCT	TN	PCT1	10 Oct 2008	TN/2010.0140	21444	01 Dec 2011	10 Oct 2028
PAT052279-TR-EPT	TR	EPT1	10 Oct 2008	08838428.4	TR201401662T	20 Nov 2013	10 Oct 2028
PAT052279-TW-NP	TW	NP1	09 Oct 2008	097139094			09 Oct 2028
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PAT052279-US-CNT	US	CNT1	11 Nov 2010	12/944019	8246953	21 Aug 2012	10 Oct 2028
PAT052279-US-CNT02	US	CNT2	12 Jul 2012	13/547598	8486661	16 Jul 2013	10 Oct 2028
PAT052279-US-NP	US	NP1	10 Oct 2008	12/249050	7879322	01 Feb 2011	10 Oct 2028
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PAT052279-VE-NP	VE	NP1	10 Oct 2008	2008/2059			
PAT052279-VN-PCT	VN	PCT1	10 Oct 2008	1-2010-01189			
PAT052279-WO-PCT	WO	PCT1	10 Oct 2006	PCT/EP08/063691			
PAT052279-ZA-PCT	ZA	PCT1	10 Oct 2008	2010/01789	2010/01789	28 Dec 2011	10 Oct 2028

Note: Highlighted rows indicate patent is abandoned

BPS804 PAT056996

Patent Number	Country	Type	Filing Date	Filing Number	Grant Number	Grant Date	Expiry
PAT056996-US-PSP	US	PSP	20 Jul 2015	62/194495			20 Jul 2016

BGS649 PAT055240

Family Number	City	Type	Filing Date	Filing Number	Grant Number	Grant Date	Expiry
PAT055240-AU-PCT	AU	PCT	06 Sep 2012	2012304694			06 Sep 2032
PAT055240-BR-PCT	BR	PCT	06 Sep 2012	112014005434.7			06 Sep 2032
PAT055240-CA-PCT	CA	PCT	06 Sep 2012	2846884			06 Sep 2032
PAT055240-CN-PCT	CN	PCT	06 Sep 2012	201280043614.7			06 Sep 2032
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PAT055240-JP-PCT	JP	PCT	06 Sep 2012	2014-529833			06 Sep 2032
PAT055240-KR-PCT	KR	PCT	06 Sep 2012	2014-7006171			06 Sep 2032
PAT055240-MX-PCT	MX	PCT	06 Sep 2012	MX/A/2014/002780			06 Sep 2032
PAT055240-RU-PCT	RU	PCT	06 Sep 2012	2014113575			06 Sep 2032
PAT055240-US-PCT	US	PCT	06 Sep 2012	14/342813			06 Sep 2032
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BGS649 PAT054764

Family Number	City	Type	Filing Date	Filing Number	Grant Number	Grant Date	Expiry
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PAT054764-PY-NP	PY	NP	07 Sep 2012	42150			07 Sep 2032
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BCT197 PAT055059

Family Member	City	Type	Filing Date	Filing Number	Grant Number	Grant Date	Expiry
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PAT055059-DZ-PCT	DZ	PCT	19 Mar 2013	140590			19 Mar 2033
PAT055059-EG-PCT	EG	PCT	19 Mar 2013	PCT/1325/2014			19 Mar 2033
PAT055059-EP-EPT	EP	EPT	19 Mar 2013	13710851.0			19 Mar 2033
PAT055059-HK-FPR	HK	FPR	29 Jan 2015	15101000.9			19 Mar 2033
PAT055059-ID-PCT	ID	PCT	19 Mar 2013	P00201405202			19 Mar 2033
PAT055059-IL-PCT	IL	PCT	19 Mar 2013	234537			19 Mar 2033
PAT055059-IO-NP	IO	NP	19 Mar 2013	78/2013			19 Mar 2033
PAT055059-JP-PCT	JP	PCT	19 Mar 2013	2015-500892			19 Mar 2033
PAT055059-KR-PCT	KR	PCT	19 Mar 2013	2014-7025904			19 Mar 2033
PAT055059-LB-NP	LB	NP	19 Mar 2013	9943			19 Mar 2033
PAT055059-MA-PCT	MA	PCT	19 Mar 2013	PV37455			19 Mar 2033
PAT055059-MX-PCT	MX	PCT	19 Mar 2013	MX/A/2014/011291			19 Mar 2033
PAT055059-NZ-PCT	NZ	PCT	19 Mar 2013	628392			19 Mar 2033
PAT055059-PH-PCT	PH	PCT	19 Mar 2013	1-2014-502107			19 Mar 2033
PAT055059-RU-PCT	RU	PCT	19 Mar 2013	2014141893			19 Mar 2033
PAT055059-SG-PCT	SG	PCT	19 Mar 2013	11201404941W			19 Mar 2033
PAT055059-TH-PCT	TH	PCT	19 Mar 2013	1401005467			19 Mar 2033
PAT055059-TN-PCT	TN	PCT	19 Mar 2013	TN2014/0350			19 Mar 2033
PAT055059-TW-NP	TW	NP	19 Mar 2013	102109739			19 Mar 2033
PAT055059-US-PCT	US	PCT	19 Mar 2013	14/386174			19 Mar 2033
PAT055059-US-PSP	US	PSP	20 Mar 2012	61/613187			20 Mar 2013
PAT055059-WO-PCT	WO	PCT	19 Mar 2013	PCT/EP2013/055730			20 Mar 2013
PAT055059-ZA-PCT	ZA	PCT	19 Mar 2013	2014/05871			19 Mar 2033

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PAT034055-AE-PCT	AE	PCT1	24 Jun 2004	PS97/05			24 Jun 2024
PAT034055-AT-EPT	AT	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-AT-ETD	AT	ETD	28 May 2010	10164367.4	EP571914	22 Aug 2012	24 Jun 2024
PAT034055-AU-PCT	AU	PCT1	24 Jun 2004	2004259662	2004259662	21 Nov 2006	24 Jun 2024
PAT034055-BE-EPT	BE	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-BE-ETD	BE	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-BG-EPT	BG	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-BG-ETD	BG	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-BR-PCT	BR	PCT1	24 Jun 2004	PI0411825.1			24 Jun 2024
PAT034055-CA-PCT	CA	PCT1	24 Jun 2004	2526455	2526455	09 Oct 2012	24 Jun 2024
PAT034055-CH-EPT	CH	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-CH-ETD	CH	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-CN-PCT	CN	PCT1	24 Jun 2004	200480018056.4	200480018056.4	04 Jul 2012	24 Jun 2024
PAT034055-CO-PCT	CO	PCT1	24 Jun 2004	06007013	2432	30 Aug 2012	24 Jun 2024
PAT034055-CY-EPT	CY	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-CY-ETD	CY	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-CZ-EPT	CZ	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-CZ-ETD	CZ	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-DE-EPT	DE	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-DE-ETD	DE	ETD	28 May 2010	10164367.4	EP22004039085.2	22 Aug 2012	24 Jun 2024
PAT034055-DK-EPT	DK	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-DK-ETD	DK	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-DZ-PCT	DZ	PCT1	24 Jun 2004	060030	4384	30 Nov 2008	24 Jun 2024
PAT034055-EC-PCT	EC	PCT1	24 Jun 2004	SP-05-6206			24 Jun 2024
PAT034055-EC-PCTD	EC	PCTD1	09 Feb 2012	SP-05-6206-D1			24 Jun 2024
PAT034055-EE-EPT	EE	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-EE-ETD	EE	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-EG-PCT	EG	PCT1	24 Dec 2005	858/2005			24 Dec 2025
PAT034055-EP-EPT	EP	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Dec 2025

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PAT034055-EP-ETD	EP	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	
PAT034055-ES-EPT	ES	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-ES-ETD	ES	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-FI-EPT	FI	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-FI-ETD	FI	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-FR-EPT	FR	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-FR-ETD	FR	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-GB-EPT	GB	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-GB-ETD	GB	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-GR-EPT	GR	EPT1	24 Jun 2004	04777075.5	3076166	27 Jul 2011	24 Jun 2024
PAT034055-GR-ETD	GR	ETD	28 May 2010	10164367.4	20120402472	22 Aug 2012	24 Jun 2024
PAT034055-HK-FPR	HK	FPR1	16 Aug 2006	06109122.6	1088895	10 Feb 2012	24 Jun 2024
PAT034055-HK-FPR02	HK	FPR2	22 Jul 2011	11107635.3	1149764	21 Dec 2012	24 Jun 2024
PAT034055-HR-EPT	HR	EPT1	24 Jun 2004	04777075.5	P20110757	27 Jul 2011	24 Jun 2024
PAT034055-HR-ETD	HR	ETD	28 May 2010	10164367.4	P20120900	22 Aug 2012	24 Jun 2024
PAT034055-HU-EPT	HU	EPT1	24 Jun 2004	04777075.5	E04777075	27 Jul 2011	24 Jun 2024
PAT034055-HU-ETD	HU	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-ID-PCT	ID	PCT1	24 Jun 2004	W00200503301	IDP0031204	22 Jun 2012	24 Jun 2024
PAT034055-IE-EPT	IE	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-IE-ETD	IE	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-IL-PCT	IL	PCT1	24 Jun 2004	172182	172182	01 Nov 2014	24 Jun 2024
PAT034055-IM-PCT	IN	PCT1	24 Jun 2004	3524/CHEMP/2005	234101	05 May 2009	24 Jun 2024
PAT034055-IS-PCT	IS	PCT1	24 Jun 2004	8255	2916	15 Dec 2014	24 Jun 2024
PAT034055-IS-PCTD	IS	PCTD1	28 Jan 2014	9037			24 Jun 2024
PAT034055-IT-EPT	IT	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-IT-ETD	IT	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-JP-PCT	JP	PCT1	24 Jun 2004	2006-517650	4838121	07 Oct 2011	24 Jun 2024
PAT034055-KR-PCT	KR	PCT1	24 Jun 2004	2005-7024679	1120857	20 Feb 2012	24 Jun 2024
PAT034055-LT-EPT	LT	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024



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PAT034055-LT-ETD	LT	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-LU-EPT	LU	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-LU-ETD	LU	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-LV-EPT	LV	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-LV-ETD	LV	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-MA-PCT	MA	PCT1	24 Jun 2004	PV28678	27898	02 May 2006	24 Jun 2024
PAT034055-MC-EPT	MC	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-MC-ETD	MC	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-MX-PCT	MX	PCT1	24 Jun 2004	PA/A/05/013824	290092	12 Sep 2011	24 Jun 2024
PAT034055-MY-NP	MY	NP1	24 Jun 2004	P120042496			24 Jun 2024
PAT034055-NL-EPT	NL	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-NL-ETD	NL	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-NO-PCT	NO	PCT1	24 Jun 2004	20060424			24 Jun 2024
PAT034055-NZ-PCT	NZ	PCT1	24 Jun 2004	544230	544230	12 Nov 2009	24 Jun 2024
PAT034055-PH-PCT	PH	PCT1	24 Jun 2004	1-2005-502125	1-2005-502125	02 Apr 2012	24 Jun 2024
PAT034055-PL-EPT	PL	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-PL-ETD	PL	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-PT-EPT	PT	EPT1	24 Jun 2004	04777075.5	206-2011	27 Jul 2011	24 Jun 2024
PAT034055-PT-ETD	PT	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-RO-EPT	RO	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-RO-ETD	RO	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-RU-PCT	RU	PCT1	24 Jun 2004	2006102023	2381219	10 Feb 2010	24 Jun 2024
PAT034055-SE-EPT	SE	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-SE-ETD	SE	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-SG-PCT	SG	PCT1	24 Jun 2004	200507611-2	122993	31 Mar 2009	24 Jun 2024
PAT034055-SI-EPT	SI	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-SI-ETD	SI	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-SK-EPT	SK	EPT1	24 Jun 2004	04777075.5	EP1641764	27 Jul 2011	24 Jun 2024
PAT034055-SK-ETD	SK	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024

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PAT034055-TN-PCT	TN	PCT1	24 Jun 2004	SM05307	19226	13 Sep 2007	24 Jun 2024
PAT034055-TR-EPT	TR	EPT1	24 Jun 2004	04777075.5	TR201110736	27 Jul 2011	24 Jun 2024
PAT034055-TR-ETD	TR	ETD	28 May 2010	10164367.4	EP2298743	22 Aug 2012	24 Jun 2024
PAT034055-TW-DIV	TW	DIV1	22 Apr 2011	100114024	1449696	21 Aug 2014	24 Jun 2024
PAT034055-TW-NP	TW	NP1	24 Jun 2004	093118259	1452035	11 Sep 2014	24 Jun 2024
PAT034055-US-CNT	US	CNT	22 Jun 2012	13/530919	8410160	02 Apr 2013	24 Jun 2024
PAT034055-US-CNT02	US	CNT2	25 Feb 2013	13/775963	8580838	12 Nov 2013	24 Jun 2024
PAT034055-US-DIV	US	DIV	19 Nov 2010	12/950649	8242117	14 Aug 2012	24 Jun 2024
PAT034055-US-NP	US	NP1	24 Jun 2004	10/877534	7863314	04 Jan 2011	07 Apr 2025
PAT034055-US-PSP	US	PSP1	26 Jun 2003	60/483428			26 Jun 2004
PAT034055-US-PSP02	US	PSP2	29 Aug 2003	60/499054			29 Aug 2004
PAT034055-US-PSP03	US	PSP3	07 Apr 2004	60/560481			07 Apr 2005
PAT034055-WO-PCT	WO	PCT1	24 Jun 2004	PCT/US2004/020384			
PAT034055-ZA-PCT	ZA	PCT1	24 Jun 2004	2005/09018	2005/09018	26 Mar 2007	24 Jun 2024

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