

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT8223486

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	NUANCE COMMUNICATIONS, INC.	09/20/2023
RECEIVING PARTY DATA		
Name:	MICROSOFT TECHNOLOGY LICENSING, LLC	
Street Address:	ONE MICROSOFT WAY	
City:	REDMOND	
State/Country:	WASHINGTON	
Postal Code:	98052	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16680213
CORRESPONDENCE DATA		
Fax Number:		
<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>		
Phone:	3143021451	
Email:	docket@bjfip.com	
Correspondent Name:	BARTA JONES & FOLEY PLLC (PATENT GROUP)	
Address Line 1:	3308 PRESTON ROAD	
Address Line 2:	#350-161	
Address Line 4:	PLANO, TEXAS 75093	
ATTORNEY DOCKET NUMBER:	800572-US-CNT	
NAME OF SUBMITTER:	HOLLI L. TEMPLETON	
SIGNATURE:	/Holli L. Templeton/	
DATE SIGNED:	10/16/2023	
Total Attachments: 55		
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ASSIGNMENT OF PATENTS AND APPLICATIONS

Now, therefore, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged,

Nuance Communications, Inc., a corporation organized under the laws of Delaware and having an office and place of business at 251 Little Falls Dr., Wilmington, DE 19808 ("ASSIGNOR"),

hereby sells, assigns, transfers, and conveys to

Microsoft Technology Licensing, LLC, a limited liability company organized under the laws of Washington and having an office and place of business at One Microsoft Way, Redmond, Washington 98052 ("ASSIGNEE"),

all right, title and interest ASSIGNOR has in and to the patents and patent applications listed in Exhibit A, ("PATENTS") attached hereto, including any and all legal rights to sue for past, present and future infringement, to collect royalties, to prosecute all existing patent applications worldwide, to apply for additional patents worldwide and to have patents issue in the name of ASSIGNEE.

Assignor also assigns and transfers to the Assignee and the Assignee's legal representatives, successors and assigns, its full and exclusive rights in and to the Intellectual Property including the PATENTS in the U.S. and every foreign country, and its entire right, title, and interest in and to the related applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every foreign country on the Intellectual Property including the PATENTS and related applications.

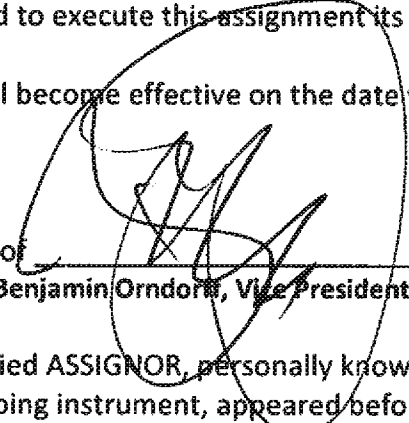
Upon said consideration, Assignor conveys to the Assignee the right to make application in its own behalf on the Intellectual Property including the PATENTS and related applications in the U.S. and countries foreign to the U.S. and to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of any earlier U.S. application (or any other application on the invention) to gain priority with respect to other applications.

(1) ASSIGNOR requests and authorizes the appropriate officials in any country, to issue any and all Letters Patent that may be granted upon any patent application or any additional, continuing or divisional applications thereof to the ASSIGNEE, its successors and assigns.

(2) ASSIGNOR grants to ASSIGNEE and its agents the authority and power to insert on this instrument any further identification necessary or desirable for purposes of recordation in the Patent and Trademark Office of any country.

(3) ASSIGNOR certifies that the person signing this assignment is a lawful representative of ASSIGNOR and is authorized to execute this assignment its behalf.

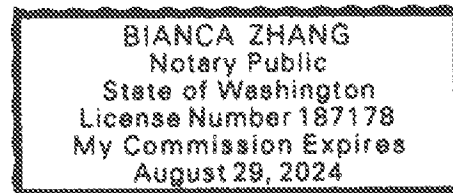
(4) This assignment will become effective on the date when both ASSIGNOR and ASSIGNEE have signed it.

09/20/2023 Signature of  for ASSIGNOR
[Date] Benjamin Orndorn, Vice President, Nuance Communications, Inc.

I certify that the above-identified ASSIGNOR, personally known to me to be the same person or persons who signed the foregoing instrument, appeared before me this day in person, and acknowledged that the said instrument was signed and delivered as the free and voluntary act of the ASSIGNOR, for the uses and purposes therein set forth.

Given under my hand and seal, this September 20th, 2023 [Date].


Bianca Zhang – NOTARY PUBLIC
In and for the State of Washington U.S.A.
Residing at King County, Washington U.S.A.
My Appointment expires: 08/29/2024



09/20/2023

[Date]

Signature of



for ASSIGNEE.

Tyler Fuller, Vice President, Microsoft Technology Licensing, LLC

I certify that the above-identified ASSIGNEE, personally known to me to be the same person or persons who signed the foregoing instrument, appeared before me this day in person, and acknowledged that the said instrument was signed and delivered as the free and voluntary act of the ASSIGNEE, for the uses and purposes therein set forth.

Given under my hand and seal, this September 20th, 2023 [Date].



Bianca Zhang – NOTARY PUBLIC

In and for the State of Washington U.S.A.

Residing at King County, Washington U.S.A.

My Appointment expires: 08/29/2024

BIANCA ZHANG
Notary Public
State of Washington
License Number 187178
My Commission Expires
August 29, 2024

EXHIBIT A

Country	Case reference	Grant Number	Filing Number	Status
United States Of America	412319-US-NP		18/162186	Filing
United States Of America	412319-US-PSP		63/416668	Filing
International Procedure	412319-WO-PCT		PCT/US23/031797	Filing
United States Of America	412409-US-NP		18/067580	Filing
United States Of America	412410-US-NP		18/146620	Filing
United States Of America	412747-US-NP		18/297066	Filing
United States Of America	412747-US-PSP		63/442183	Filing
United States Of America	412806-US-NP		18/190722	Filing
United States Of America	412807-US-NP		18/296716	Filing
United States Of America	412808-US-NP		18/186500	Filing
United States Of America	412809-US-PSP		63/449785	Filing
United States Of America	412809-US-NP		18/318185	Filing
United States Of America	412810-US-NP[2]		18/298488	Filing
United States Of America	412810-US-NP		18/298473	Filing
United States Of America	412930-US-NP		18/189318	Filing
United States Of America	412940-US-NP		18/326631	Filing
United States Of America	413137-US-NP		18/323557	Filing
United States Of America	413138-US-NP		18/334442	Filing
United States Of America	413420-US-NP		18/466711	Filing
United States Of America	413517-US-PSP		63/580629	Filing
United States Of America	800565-US-NP	9135809	12/143525	Grant
United States Of America	800565-US-CNT[2]	11568736	15/851950	Grant
United States Of America	800565-US-CNT	9852614	14/819613	Grant
United States Of America	800566-US-CNT[2]	10504505	15/830511	Grant
United States Of America	800566-US-CNT[3]	11620988	16/707262	Grant
United States Of America	800566-US-CNT	9837071	14/679508	Grant
United States Of America	800566-US-NP	9002713	12/480864	Grant
United States Of America	800567-US-NP	9081760	13/042890	Grant
United States Of America	800567-US-CNT	9396183	14/797680	Grant
United States Of America	800567-US-CNT[3]	11328121	15/670246	Grant
United States Of America	800567-US-CNT[2]	9727557	15/212944	Grant
United States Of America	800568-US-NP	8897500	13/101704	Grant

Country	Case reference	Grant Number	Filing Number	Status
United States Of America	800568-US-CNT[3]		17/201500	Publication of application
United States Of America	800568-US-CNT	9218815	14/551907	Grant
United States Of America	800568-US-CNT[2]	10950237	14/953984	Grant
United States Of America	800569-US-CNT[3]	10978192	16/253521	Grant
European Procedure (Patents)	800569-EP-ETD		21150642.3	Publication of application
United States Of America	800569-US-NP[2]	9569594	13/415606	Grant
United States Of America	800569-US-NP	9569593	13/415545	Grant
United States Of America	800569-US-CNT	9785753	15/397634	Grant
United States Of America	800569-US-CNT[2]	10199124	15/728352	Grant
United States Of America	800570-US-CNT	9818398	14/713372	Grant
United States Of America	800570-US-NP	9064492	13/544215	Grant
United States Of America	800570-US-CNT[2]	11495208	15/790117	Grant
United States Of America	800571-US-CNT	10999335	16/212826	Grant
United States Of America	800571-US-CNT[2]	11388208	17/229938	Grant
United States Of America	800571-US-NP	10154070	13/963316	Grant
United States Of America	800572-US-NP	10504622	13/782438	Grant
United States Of America	800572-US-CNT		16/680213	Publication of application
United States Of America	800572A-US-CIP		17/859608	Publication of application
Germany	800573-DE-EPA	6.02014E+11	14157692.6	Grant
United States Of America	800573-US-CNT[2]		17/817651	Publication of application
United States Of America	800573-US-CNT	11461781	16/539853	Grant
United States Of America	800573-US-NP	10380591	13/830238	Grant
United Kingdom	800573-GB-EPA	2779012	14157692.6	Grant
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United States Of America	800574-US-NP[3]	10534623	14/107545	Grant
United States Of America	800574-US-NP	9479931	14/107466	Grant
Germany	800575-DE-EPT	6.02014E+11	14703720.4	Grant
France	800575-FR-EPT	3097553	14703720.4	Grant
United Kingdom	800575-GB-EPT	3097553	14703720.4	Grant
United States Of America	800575-US-PCT	10186256	15/109321	Grant

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United States Of America	800576-US-PCT	11482241	16/089287	Grant
United States Of America	800576-US-NP	9922664	15/082349	Grant
China	800576-CN-PCT		201780032505.8	Publication of application
United States Of America	800577-US-NP	11372862	15/785354	Grant
United States Of America	800577-US-CNT		17/845982	Publication of application
United States Of America	800578-US-NP	10769186	15/785347	Grant
United States Of America	800579-US-CNT	11706340	17/142509	Grant
United States Of America	800579A-US-CIP	10972609	16/398652	Grant
United States Of America	800580-US-CNT		17/717326	Publication of application
United States Of America	800580-US-NP	11302335	16/529369	Grant
United States Of America	800581-US-NP	11152084	15/045167	Grant
United States Of America	800582-US-NP	11275853	16/038777	Grant
United States Of America	800583-US-NP	11275855	16/038886	Grant
United States Of America	800584-US-NP	11275854	16/038842	Grant
United States Of America	800585-US-NP	11593572	17/003130	Grant
United States Of America	800586-US-NP	11545136	16/659159	Grant
United States Of America	800587-US-NP[5]		17/197740	Publication of application
European Procedure (Patents)	800587-EP-EPT[7]		21768010.7	Publication of application
United States Of America	800587-US-NP[7]		17/197587	Publication of application
United States Of America	800587-US-NP[3]		17/197650	Publication of application
India	800587-IN-PCT[7]		202217050390	Local filing
United States Of America	800587-US-CNT[2]	11670282	17/728252	Grant
China	800587-CN-PCT[8]		202180020629.0	Publication of application
United States Of America	800587-US-NP	11398216	17/077863	Grant
European Procedure (Patents)	800587-EP-EPT[8]		21766972.0	Publication of application
United States Of America	800587-US-CNT		17/840958	Publication of application

Country	Case reference	Grant Number	Filing Number	Status
China	800587-CN-PCT[7]		202180020556.5	Publication of application
United States Of America	800587-US-NP[6]		17/197549	Publication of application
United States Of America	800587-US-NP[4]		17/197717	Publication of application
European Procedure (Patents)	800587-EP-EPT[4]		21767052.0	Publication of application
United States Of America	800587-US-NP[2]	11361749	17/077965	Grant
India	800587-IN-PCT[8]		202217050387	Local filing
United States Of America	800587-US-NP[8]		17/197684	Publication of application
United States Of America	800595-US-NP[6]		17/070857	Publication of application
United States Of America	800595-US-NP[3]	11321058	17/070829	Grant
United States Of America	800595-US-NP[2]	11561775	17/070788	Grant
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United States Of America	800595-US-CNT		18/083084	Notice of Allowance
United States Of America	800595-US-CNT[3]		18/360189	Filing
United States Of America	800595-US-CNT[2]		18/089763	Grant
United States Of America	800595-US-NP[5]	11494166	17/070804	Grant
India	800601-IN-PCT[2]		202217063118	Publication of application
India	800601-IN-PCT		202217063122	Publication of application
India	800601-IN-PCT[6]		202217063121	Publication of application
China	800601-CN-PCT[5]		202180033171.2	Publication of application
China	800601-CN-PCT[4]		202180033636.4	Publication of application
European Procedure (Patents)	800601-EP-EPT[3]		21800532.0	Publication of application

Country	Case reference	Grant Number	Filing Number	Status
India	800601-IN-PCT[4]		202217063119	Publication of application
China	800601-CN-PCT[2]		202180033647.2	Publication of application
European Procedure (Patents)	800601-EP-EPT		21800149.3	Publication of application
United States Of America	800601-US-NP[2]	11232794	17/315857	Grant
China	800601-CN-PCT[6]		202180033186.9	Publication of application
India	800601-IN-PCT[5]		202217063123	Publication of application
European Procedure (Patents)	800601-EP-EPT[4]		21800936.3	Publication of application
China	800601-CN-PCT		202180033335.1	Publication of application
India	800601-IN-PCT[3]		202217063120	Publication of application
European Procedure (Patents)	800601-EP-EPT[5]		21799808.7	Publication of application
European Procedure (Patents)	800601-EP-EPT[6]		21800338.2	Publication of application
China	800601-CN-PCT[3]		202180033325.8	Publication of application
European Procedure (Patents)	800601-EP-EPT[2]		21799503.4	Publication of application
United States Of America	800601-US-NP		17/314601	Notice of Allowance
United States Of America	800602-US-NP	11699440	17/314527	Grant
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United States Of America	800606-US-NP	11631411	17/315890	Grant
United States Of America	800607-US-NP	11335344	17/315916	Grant
United States Of America	800610-US-NP	10133612	15/072778	Grant
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United States Of America	800615-US-NP	7321852	10/696113	Grant
United States Of America	800616-US-NP	7346494	10/699375	Grant

Country	Case reference	Grant Number	Filing Number	Status
United States Of America	800617-US-NP	7356131	10/731307	Grant
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United States Of America	800619-US-NP	7356472	10/733610	Grant
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United States Of America	800625-US-NP	7415106	10/796400	Grant
United States Of America	800625-US-CNT	7848509	12/167925	Grant
United States Of America	800628-US-CNT	7848920	12/166845	Grant
United States Of America	800628-US-NP	7412378	10/815309	Grant
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United States Of America	800646-US-NP	7076430	10/173341	Grant
United States Of America	800648-US-CNT	7562010	11/426225	Grant
Germany	800649-DE-EPT	60350849.9	03808837.3	Grant
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United States Of America	800658-US-CNT[2]	8914294	14/246216	Grant
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United States Of America	800660-US-NP	7450698	11/036204	Grant

Country	Case reference	Grant Number	Filing Number	Status
United States Of America	800662-US-PCT	7302393	10/539454	Grant
United States Of America	800663-US-NP	8818808	11/063910	Grant
United Kingdom	800663-GB-EPA	1696421	06110328.9	Grant
United States Of America	800663-US-CNT[2]	9666182	14/874843	Grant
Germany	800663-DE-EPA	6.02006E+11	06110328.9	Grant
United States Of America	800664-US-CNT	10818299	14/275539	Grant
United States Of America	800665-US-PCT	8781826	10/532919	Grant
United States Of America	800666-US-NP	7308360	11/083425	Grant
United States Of America	800667-US-NP	7996219	11/085587	Grant
United States Of America	800667-US-CNT[2]	9640176	14/282054	Grant
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United States Of America	800668-US-NP	7805300	11/085382	Grant
United States Of America	800668-US-CNT[2]	9792905	14/541694	Grant
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United States Of America	800671-US-NP	7529678	11/093544	Grant
United States Of America	800672-US-NP	7412383	10/407965	Grant
United States Of America	800673-US-NP	8065149	12/043810	Grant
United States Of America	800675-US-NP	8670987	11/688334	Grant
United States Of America	800676-US-NP	8909532	11/690423	Grant
United States Of America	800678-US-NP	7813929	11/693961	Grant
United States Of America	800679-US-NP	7870000	11/692741	Grant
United States Of America	800680-US-NP		17/840787	Filing
International Procedure	800680-WO-PCT		PCT/US23/022812	Filing
United States Of America	800681-US-CNT[2]	9565302	14/547544	Grant
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United States Of America	800681-US-CNT[3]	10027799	15/423168	Grant
United States Of America	800681-US-CNT[4]	10609213	16/036482	Grant
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United States Of America	800683-US-CNT	7941312	12/061748	Grant
United States Of America	800685-US-CNT[5]	9210558	13/613525	Grant
United States Of America	800685-US-CNT[4]	8515395	12/485961	Grant
United States Of America	800685-US-NP	8032122	12/201945	Grant

Country	Case reference	Grant Number	Filing Number	Status
United States Of America	800685-US-CNT[12]	8843117	13/964650	Grant
United States Of America	800685-US-CNT[10]	8923825	13/892882	Grant
United States Of America	800685-US-PCT[4]	8798241	12/160946	Grant
United States Of America	800685-US-PCT[3]	8340644	12/161033	Grant
United States Of America	800685-US-PCT[7]	8351903	12/161021	Grant
United States Of America	800685-US-CNT[6]	8442496	13/616198	Grant
United States Of America	800685-US-PCT	8306509	12/161076	Grant
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United States Of America	800685-US-CNT[2]	8412162	12/485335	Grant
United States Of America	800685-US-PCT[8]	8478239	12/161064	Grant
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United States Of America	800685-US-CNT[8]	8503988	13/751505	Grant
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United States Of America	800696-US-CNT	9135336	13/943220	Grant
United States Of America	800696-US-CNT[2]	9465870	14/850100	Grant
United States Of America	800697-US-NP	8433053	12/028138	Grant

Country	Case reference	Grant Number	Filing Number	Status
United States Of America	800699-US-NP	8831950	12/099028	Grant
United States Of America	800700-US-CNT[3]	11189288	16/743117	Grant
United States Of America	800700-US-CNT[2]	10540140	15/651315	Grant
United States Of America	800700-US-CNT	9710223	14/875105	Grant
United States Of America	800700-US-NP	9152376	13/308846	Grant
United States Of America	800701-US-PCT	9454959	14/440343	Grant
United States Of America	800702-US-NP	11133091	16/026641	Grant
United States Of America	800703-US-CNT[3]	8989785	11/627609	Grant
United States Of America	800703-US-PCT[3]	7532913	10/554115	Grant
United States Of America	800705-US-NP	11024406	13/795741	Grant
United States Of America	800705-US-CNT		17/325276	Publication of application
United States Of America	800706-US-CNT	10847171	16/580487	Grant
China	800706-CN-PCT		201780069538.X	Notice of Allowance
European Procedure (Patents)	800706-EP-EPT		17781230.2	Publication of application
United States Of America	800706-US-NP	10424317	15/403481	Grant
United States Of America	800707-US-NP	10949602	15/710319	Grant
United States Of America	800708-US-NP	10496743	13/928213	Grant
United States Of America	800709-US-NP	10754925	14/296256	Grant
United States Of America	800709-US-CNT		16/928519	Publication of application
United States Of America	800710-US-NP	10303798	14/575404	Grant
European Procedure (Patents)	800710-EP-EPT		15820805.8	Publication of application
China	800710-CN-PCT	ZL201580076319.5	201580076319.5	Grant
European Procedure (Patents)	800711-EP-EPT		18884160.5	Publication of application
United States Of America	800711-US-NP	10157611	15/825775	Grant
United States Of America	800711A-US-CIP	10482878	15/831808	Grant
United States Of America	800712-US-NP	10846429	16/038726	Grant
United States Of America	800714-US-NP	11238226	16/192245	Grant
European Procedure (Patents)	800714-EP-EPT		19884079.5	Publication of application
United States Of America	800715-US-NP	11367437	16/426356	Grant

Country	Case reference	Grant Number	Filing Number	Status
European Procedure (Patents)	800716-EP-EPT		20821943.6	Publication of application
United States Of America	800716-US-NP	11216480	16/441740	Grant
United States Of America	800717-US-CNT		17/577419	Publication of application
United States Of America	800717-US-NP	11227679	16/442247	Grant
European Procedure (Patents)	800717-EP-EPT		20822473.3	Publication of application
United States Of America	800720-US-NP	11570587	15/417048	Grant
United States Of America	800722-US-NP	10810996	16/051044	Grant
United States Of America	800722-US-CNT		17/074880	Publication of application
United States Of America	800723-US-NP	11531807	16/588897	Grant
United States Of America	800725-US-NP	11537697	16/538099	Grant
United States Of America	800726-US-NP		17/837475	Filing
United States Of America	800727-US-NP		17/855554	Filing
International Procedure	800728-WO-PCT		PCT/US23/022820	Filing
United States Of America	800728-US-NP		18/058266	Filing
United States Of America	800729-US-NP		17/874146	Filing
United States Of America	800732-US-NP	7860717	10/951291	Grant
United States Of America	800733-US-CNT	7818308	11/851871	Grant
United States Of America	800734-US-NP	7774196	10/953471	Grant
United States Of America	800736-US-NP	7315811	11/007626	Grant
United States Of America	800737-US-NP	7822598	11/068493	Grant
United States Of America	800738-US-NP	7783474	11/069203	Grant
United States Of America	800741-US-NP	7478044	10/793463	Grant
United States Of America	800742-US-CNT[2]	8370163	13/242874	Grant
United States Of America	800742-US-CNT	8370162	13/242538	Grant
United States Of America	800743-US-CNT	7839983	12/166806	Grant
United States Of America	800743-US-NP	7412038	10/833525	Grant
United States Of America	800743-US-CNT[2]	8204181	12/166824	Grant
United States Of America	800744-US-NP	7552225	10/833472	Grant
United States Of America	800745-US-NP	8204182	11/613179	Grant
United States Of America	800746-US-NP	8417511	11/616998	Grant
United States Of America	800747-US-CNT	10521186	13/847974	Grant
United States Of America	800747-US-NP	8417529	11/616682	Grant
United States Of America	800748-US-NP	8731146	11/649467	Grant

Country	Case reference	Grant Number	Filing Number	Status
United States Of America	800748-US-CNT[2]	9432495	14/833105	Grant
United States Of America	800748-US-CNT	9148500	14/250432	Grant
United States Of America	800749-US-NP	8712757	11/621729	Grant
United States Of America	800750-US-DIV	8630859	12/048394	Grant
United States Of America	800750-US-NP	7412393	10/790159	Grant
United States Of America	800751A-US-CNT	9131050	13/456144	Grant
United States Of America	800752-US-NP	8713542	11/679236	Grant
United States Of America	800753-US-NP	7840409	11/679284	Grant
United States Of America	800754-US-NP	7421393	10/790495	Grant
United States Of America	800754-US-CNT[3]	9257116	14/261549	Grant
United States Of America	800754-US-CNT[2]	8725517	13/926366	Grant
United States Of America	800754-US-CNT	8473299	12/201423	Grant
United States Of America	800756-US-NP	8009819	11/800106	Grant
United States Of America	800756-US-CNT	8428241	13/218217	Grant
United States Of America	800757-US-NP	7430510	10/790517	Grant
United States Of America	800757-US-CNT	7778836	12/194175	Grant
United States Of America	800758-US-NP	8862475	11/734445	Grant
United States Of America	800759-US-NP	8495494	12/102813	Grant
United States Of America	800760-US-NP	8416927	12/101672	Grant
United States Of America	800761-US-NP	8271268	11/736718	Grant
United States Of America	800762-US-CNT	8538491	13/782342	Grant
United States Of America	800762-US-CNT[3]	9288311	14/475110	Grant
United States Of America	800762-US-CNT[2]	8855616	13/973601	Grant
United States Of America	800762-US-CNT[4]	9712669	15/019274	Grant
United States Of America	800762-US-NP	8412284	11/746417	Grant
United States Of America	800762-US-CNT[5]	10057413	15/651256	Grant
United States Of America	800763-US-CNT	9239660	13/796819	Grant
United States Of America	800763-US-NP	8417509	11/761492	Grant
United States Of America	800764-US-NP	7797158	11/765527	Grant
United States Of America	800764-US-CNT[2]	8600744	13/446329	Grant
United States Of America	800765-US-CNT[2]	8275621	13/110140	Grant
United States Of America	800765-US-NP	7472061	12/059713	Grant
United States Of America	800765-US-CNT	7957969	12/243389	Grant

Country	Case reference	Grant Number	Filing Number	Status
United States Of America	800766-US-NP	9047869	12/099041	Grant
United States Of America	800767-US-NP	8239203	12/423527	Grant
United States Of America	800768-US-CNT[3]	9412382	14/859449	Grant
United States Of America	800768-US-CNT	8805685	13/959305	Grant
United States Of America	800768-US-CNT[2]	9142218	14/454104	Grant
United States Of America	800768-US-CNT[4]	9812133	15/229376	Grant
United States Of America	800768-US-NP	8504365	12/101482	Grant
United States Of America	800769-US-CNT[4]	9525767	15/058355	Grant
United States Of America	800769-US-CNT	8655662	13/688611	Grant
United States Of America	800769-US-CNT[3]	9319504	14/539179	Grant
United States Of America	800769-US-NP	8370148	12/102197	Grant
United States Of America	800769-US-CNT[2]	8892442	14/181997	Grant
United States Of America	800770-US-NP	8732114	12/422671	Grant
United States Of America	800771-US-NP	8229736	12/371992	Grant
United States Of America	800771-US-CNT	8706478	13/455869	Grant
United States Of America	800772-US-CNT	8060370	12/605792	Grant
United States Of America	800773-US-NP	9349367	12/109167	Grant
United States Of America	800774-US-CNT[2]	8995975	14/271183	Grant
United States Of America	800775-US-NP	9293130	12/114128	Grant
United States Of America	800776-US-NP	7680661	12/120316	Grant
United States Of America	800777-US-CNT[2]	9497511	14/993435	Grant
United States Of America	800777-US-CNT	9277287	14/729791	Grant
United States Of America	800777-US-NP	9077933	12/120368	Grant
China	800778-CN-PCT	ZL200980116201.5	200980116201.5	Grant
Germany	800778-DE-EPT	6.02009E+11	09742529.2	Grant
United States Of America	800778-US-PCT	8831954	12/990792	Grant
United States Of America	800779-US-CNT	8676575	12/626059	Grant
United States Of America	800779-US-CNT[2]	9420081	14/217552	Grant
United States Of America	800779-US-NP	7630885	11/423742	Grant
United States Of America	800780-US-CNT	8442187	13/448594	Grant
United States Of America	800780-US-NP	8194827	12/111301	Grant
United States Of America	800781-US-NP	8478592	12/180583	Grant
United States Of America	800782-US-NP	8781833	12/460249	Grant

Country	Case reference	Grant Number	Filing Number	Status
United States Of America	800782-US-CNT	9620110	14/262919	Grant
United States Of America	800783-US-NP	7684556	12/505115	Grant
United States Of America	800784-US-CNT	9069450	14/196212	Grant
United States Of America	800784-US-NP	8707258	12/255158	Grant
United States Of America	800785-US-NP	8644488	12/428947	Grant
United States Of America	800785-US-CNT	9014363	14/140649	Grant
United States Of America	800786-US-CNT	8620657	13/617196	Grant
United States Of America	800786-US-NP	8332223	12/258073	Grant
United States Of America	800787-US-CNT	8386263	13/442170	Grant
United States Of America	800787-US-NP	8190437	12/258150	Grant
United States Of America	800788-US-NP	9269357	12/576540	Grant
United States Of America	800789-US-NP	9342509	12/609647	Grant
United States Of America	800790-US-NP	7716039	11/279804	Grant
United States Of America	800791-US-NP	7724888	11/167449	Grant
United States Of America	800792-US-CNT[2]	9773497	15/058513	Grant
United States Of America	800792-US-NP	8751229	12/275920	Grant
United Kingdom	800793-GB-EPT	2361430	09828719.6	Grant
Germany	800793-DE-EPT	6.02009E+11	09828719.6	Grant
United States Of America	800793-US-NP	8442824	12/591636	Grant
United States Of America	800793-US-CNT[2]	9484037	14/524214	Grant
United States Of America	800793-US-CNT	8874442	13/864343	Grant
United States Of America	800794-US-CNT	9037462	13/424922	Grant
United States Of America	800795-US-CNT[4]	10199052	15/620480	Grant
United States Of America	800795-US-CNT[2]	9123346	13/906704	Grant
United States Of America	800795-US-CNT[3]	9679582	14/803318	Grant
United States Of America	800795-US-NP	8150696	12/329716	Grant
United States Of America	800795-US-CNT	8489402	13/403495	Grant
United States Of America	800796-US-CNT[2]	9620127	14/537370	Grant
United States Of America	800796-US-NP	8095368	12/328365	Grant
United States Of America	800796-US-CNT	8886544	13/311521	Grant
United States Of America	800796-US-CNT[3]	10140992	15/480621	Grant
United States Of America	800797-US-NP	8165887	12/330014	Grant
United States Of America	800798-US-NP	8130916	12/349725	Grant
United States Of America	800799-US-NP	8407057	12/357342	Grant

Country	Case reference	Grant Number	Filing Number	Status
United States Of America	800799-US-CNT	8903727	13/786650	Grant
United States Of America	800801-US-NP	8275623	12/399694	Grant
United States Of America	800801-US-CNT[2]	8589168	13/872584	Grant
United States Of America	800801-US-CNT	8457971	13/594323	Grant
United States Of America	800803-US-NP	8712774	12/749335	Grant
United States Of America	800804-US-NP	8370155	12/428987	Grant
United States Of America	800806-US-NP	8548807	12/480848	Grant
United States Of America	800806-US-CNT[2]	9026442	14/459696	Grant
United States Of America	800806-US-CNT	8812315	14/043175	Grant
United States Of America	800807-US-NP	8635237	12/496851	Grant
United States Of America	800808-US-NP	8416714	12/535923	Grant
United States Of America	800809-US-CNT[2]	9837072	15/595131	Grant
United States Of America	800809-US-CNT[3]	10699702	15/830535	Grant
United States Of America	800809-US-NP	9026444	12/561005	Grant
United States Of America	800809-US-CNT	9653069	14/700324	Grant
United States Of America	800810-US-NP	7912187	11/421581	Grant
United States Of America	800810-US-CNT	8433042	13/052081	Grant
United States Of America	800810-US-CNT[2]	8811574	13/872849	Grant
United States Of America	800811-US-NP	7912718	11/469089	Grant
United States Of America	800812-US-CNT	8204749	13/053179	Grant
United States Of America	800813-US-NP	9438741	12/570013	Grant
United States Of America	800814-US-CNT	9484024	14/666548	Grant
United States Of America	800815-US-CNT[2]	9159323	13/953527	Grant
United States Of America	800815-US-NP	8200480	12/569921	Grant
United States Of America	800815-US-CNT	8498869	13/459274	Grant
United States Of America	800818-US-CNT[2]	9355638	14/737708	Grant
United States Of America	800818-US-CNT[3]	9911437	15/146283	Grant
United States Of America	800818-US-CNT[4]	10546595	15/911678	Grant
United States Of America	800818-US-NP	8571866	12/604628	Grant
United States Of America	800818-US-CNT	9058808	14/061855	Grant
United States Of America	800819-US-NP	7933774	10/802812	Grant
United States Of America	800820-US-CNT[2]	8635604	13/765136	Grant
United States Of America	800821-US-NP	8433578	12/627617	Grant

Country	Case reference	Grant Number	Filing Number	Status
United States Of America	800822-US-NP	9865263	12/892299	Grant
United States Of America	800823-US-NP	8457968	12/633315	Grant
United States Of America	800823-US-CNT	8700402	13/909409	Grant
United States Of America	800824-US-NP	8688443	12/645589	Grant
United States Of America	800825-US-NP	8914396	12/649609	Grant
United States Of America	800825-US-CNT	9286386	14/558780	Grant
United States Of America	800826-US-NP	8417525	12/702512	Grant
United States Of America	800826-US-CNT	8700401	13/770537	Grant
United States Of America	800826-US-CNT[2]	9183836	14/200206	Grant
United States Of America	800827-US-NP	8433567	12/719024	Grant
United States Of America	800828-US-CNT	8718239	13/596427	Grant
United States Of America	800828-US-NP	8254535	11/940229	Grant
United States Of America	800828A-US-CIP	9020107	13/101085	Grant
United States Of America	800830-US-NP	9368126	13/097191	Grant
Japan	800831-JP-PCT	5851507	2013-528267	Grant
United States Of America	800831-US-CNT[2]	8745025	13/685059	Grant
United States Of America	800831-US-NP[4]	8239366	12/877549	Grant
China	800831-CN-PCT	ZL201180043219.4	201180043219.4	Grant
United States Of America	800831-US-NP[5]	8341142	12/877440	Grant
United States Of America	800831-US-CNT[3]	8990182	13/684950	Grant
United States Of America	800832-US-CNT[2]	8964950	14/258342	Grant
United States Of America	800832-US-CNT	8750466	13/405628	Grant
United States Of America	800832-US-CNT[3]	9264547	14/628918	Grant
United States Of America	800832-US-CNT[4]	9489947	15/043703	Grant
United States Of America	800833-US-NP	8484023	12/889845	Grant
United States Of America	800836-US-NP	8700655	12/941312	Grant
United States Of America	800837-US-DIV	10121476	15/075333	Grant
United States Of America	800837-US-NP	9318114	12/954094	Grant
United States Of America	800838-US-NP	8826354	12/958230	Grant
United States Of America	800838-US-CNT	9620118	14/473682	Grant
United States Of America	800839-US-NP	8913744	13/310926	Grant
United States Of America	800839-US-CNT	9330267	14/311076	Grant
United States Of America	800840-US-NP	8666726	12/974638	Grant
United States Of America	800841-US-CNT	8532993	13/539996	Grant
United States Of America	800841-US-NP	8214213	11/380502	Grant

Country	Case reference	Grant Number	Filing Number	Status
United States Of America	800842-US-NP[2]	8930194	13/345238	Grant
United States Of America	800842-US-NP[5]	10049669	13/345173	Grant
United States Of America	800842-US-NP[3]	9953653	13/345219	Grant
United States Of America	800842-US-NP[4]	10032455	13/345198	Grant
United States Of America	800842-US-CNT	9183843	13/746566	Grant
United States Of America	800842-US-NP	8898065	13/345265	Grant
United States Of America	800843-US-NP	9081550	13/094313	Grant
United States Of America	800844-US-NP	9274746	13/030161	Grant
United States Of America	800845-US-NP	9558738	13/042671	Grant
United States Of America	800846-US-CNT[2]	10726833	15/985107	Grant
United States Of America	800846-US-NP	9679561	13/072920	Grant
United States Of America	800847-US-NP	9368107	13/090397	Grant
United States Of America	800848-US-CNT	8929883	13/685554	Grant
Australia	800849-AU-NP	2012238229	2012238229	Grant
China	800849-CN-NP	ZL201210411283.X	201210411283.X	Grant
United States Of America	800849-US-NP	9992334	13/416086	Grant
United States Of America	800850-US-NP	9318129	13/184986	Grant
United States Of America	800850-US-CNT[2]	10930303	16/166804	Grant
United States Of America	800850-US-CNT	10109300	15/063928	Grant
United States Of America	800851-US-NP	9313336	13/187914	Grant
United States Of America	800852-US-NP	9009041	13/190749	Grant
United States Of America	800852-US-CNT	9626969	14/685364	Grant
United States Of America	800853-US-NP	9368115	13/800841	Grant
United States Of America	800854-US-NP	9514740	13/800738	Grant
United States Of America	800855-US-NP	9514741	13/800764	Grant
United States Of America	800856-US-NP	9378739	13/799674	Grant
United States Of America	800857-US-NP	9135571	13/796101	Grant
United States Of America	800858-US-NP	9064001	13/832896	Grant
United States Of America	800859-US-NP	9129013	13/795886	Grant
United States Of America	800861-US-NP	10811004	13/852165	Grant
United States Of America	800862-US-NP	9607617	13/855117	Grant
United States Of America	800863-US-NP	9373322	13/859983	Grant
United States Of America	800864-US-NP	9672818	13/869919	Grant
United States Of America	800864-US-CNT	10176803	15/613939	Grant
United States Of America	800865-US-NP	9626960	13/870356	Grant
United States Of America	800865-US-CNT	10102849	15/469312	Grant
United States Of America	800866-US-NP	10783139	13/787729	Grant
United States Of America	800866-US-CNT	11372850	17/028408	Grant

Country	Case reference	Grant Number	Filing Number	Status
European Procedure (Patents)	800867-EP-EPT[8]		18845144.7	Publication of application
Germany	800867-DE-EPT[11]	3665677	18843586.1	Grant
United States Of America	800867-US-NP[3]	11074996	16/058871	Grant
European Procedure (Patents)	800867-EP-EPT[14]		18843255.3	Publication of application
European Procedure (Patents)	800867-EP-EPT[17]		18843874.1	Publication of application
United States Of America	800867F-US-CIP		17/210300	Publication of application
United States Of America	800867B-US-CIP		17/210233	Publication of application
United States Of America	800867-US-CNT[3]	11482311	17/210120	Grant
United States Of America	800867-US-CNT	11257576	16/773447	Grant
European Procedure (Patents)	800867-EP-EPT[4]		18843873.3	Publication of application
European Procedure (Patents)	800867-EP-EPT[19]		18844752.8	Publication of application
United States Of America	800867-US-NP[8]	11101023	16/059818	Grant
European Procedure (Patents)	800867-EP-EPT		18843945.9	Publication of application
European Procedure (Patents)	800867-EP-EPT[18]		18844406.1	Publication of application
United Kingdom	800867-GB-EPT[11]	3665677	18843586.1	Grant
European Procedure (Patents)	800867-EP-EPT[3]		18845046.4	Publication of application
European Procedure (Patents)	800867-EP-EPT[2]		18844226.3	Publication of application
European Procedure (Patents)	800867-EP-EPT[6]		18843648.9	Publication of application
European Procedure (Patents)	800867-EP-EPT[9]		18843175.3	Publication of application
United States Of America	800867-US-NP[7]	10546655	16/058951	Grant

Country	Case reference	Grant Number	Filing Number	Status
European Procedure (Patents)	800867-EP-EPT[5]		18842996.3	Publication of application
United States Of America	800867-US-NP[10]	10957428	16/100030	Grant
France	800867-FR-EPT[11]	3665677	18843586.1	Grant
European Procedure (Patents)	800867-EP-EPT[7]		18844530.8	Publication of application
United States Of America	800867-US-NP[2]	10978187	16/058856	Grant
United States Of America	800867-US-NP[9]	11043288	16/059944	Grant
European Procedure (Patents)	800867-EP-EPT[13]		18843254.6	Publication of application
European Procedure (Patents)	800867-EP-EPT[20]		18844407.9	Publication of application
United States Of America	800867E-US-CIP		17/210292	Publication of application
United States Of America	800867-US-NP[5]	11101022	16/058936	Grant
United States Of America	800867-US-CNT[4]	11581077	17/467688	Grant
United States Of America	800867-US-CNT[2]		17/210052	Notice of Allowance
European Procedure (Patents)	800867-EP-EPT[15]		18844669.4	Publication of application
United States Of America	800867-US-NP[4]	10957427	16/058912	Grant
European Procedure (Patents)	800867-EP-EPT[16]		18844829.4	Publication of application
United States Of America	800867-US-NP[6]	11114186	16/058941	Grant
European Procedure (Patents)	800867-EP-EPT[10]		18843329.6	Publication of application
United States Of America	800867A-US-CIP	11316865	17/084448	Grant
United States Of America	800867A-US-CNT		17/696165	Notice of Allowance
International Procedure	800867B-WO-PCT		PCT/US22/021375	Publication of application
United States Of America	800867C-US-CIP		17/210253	Publication of application
International Procedure	800867C-WO-PCT		PCT/US22/021393	Publication of application

Country	Case reference	Grant Number	Filing Number	Status
United States Of America	800867D-US-CIP		17/210262	Publication of application
International Procedure	800867D-WO-PCT		PCT/US22/021412	Publication of application
International Procedure	800867E-WO-PCT		PCT/US22/021419	Publication of application
International Procedure	800867F-WO-PCT		PCT/US22/021422	Publication of application
United States Of America	800868-US-NP	11250382	16/192358	Grant
United States Of America	800868-US-NP[3]	10809970	16/271616	Grant
United States Of America	800868-US-CNT		17/571799	Publication of application
European Procedure (Patents)	800868-EP-EPT[3]		19763474.4	Publication of application
United States Of America	800868-US-NP[2]	11250383	16/192427	Grant
United States Of America	800868-US-NP[4]	11270261	16/270782	Grant
United States Of America	800868-US-NP[5]	11222716	16/292920	Grant
United States Of America	800873-US-NP	11482308	16/058829	Grant
United States Of America	800874-US-CNT		17/846355	Publication of application
United States Of America	800874-US-NP	11404148	16/058883	Grant
United States Of America	800876-US-NP	11605448	16/058914	Grant
United States Of America	800879-US-NP	11295838	16/059895	Grant
United States Of America	800881-US-CNT		17/697593	Publication of application
United States Of America	800881-US-NP	11322231	16/059974	Grant
United States Of America	800882-US-NP	11295839	16/059986	Grant
United States Of America	800884-US-CNT		17/955693	Publication of application
United States Of America	800884-US-NP	11494735	16/270888	Grant
United States Of America	800885-US-NP	11295272	16/271329	Grant
United States Of America	800885-US-CNT		17/678791	Publication of application
United States Of America	800888-US-NP	11515020	16/293032	Grant
United States Of America	800889-US-NP		16/292877	Publication of application
United States Of America	800891-US-NP	7149681	09/740780	Grant

Country	Case reference	Grant Number	Filing Number	Status
United States Of America	800901-US-NP	7027985	09/945872	Grant
United States Of America	800902-US-NP	7146323	10/003791	Grant
United States Of America	800903-US-NP	7165027	09/935235	Grant
United States Of America	800906-US-NP	7266500	10/011897	Grant
United States Of America	800907-US-NP	6999925	10/007990	Grant
United States Of America	800921-US-NP	7925510	10/833615	Grant
United States Of America	800922-US-NP	8229750	10/833518	Grant
United States Of America	800923-US-NP	7424432	10/833516	Grant
United States Of America	800924-US-NP	7751535	10/833522	Grant
United States Of America	800925-US-NP	7415413	11/092008	Grant
United States Of America	800925-US-CNT	7747440	12/165937	Grant
United States Of America	800926-US-NP	8260617	11/108289	Grant
United States Of America	800927-US-NP	7720684	11/117951	Grant
United States Of America	800928-US-CNT	8433572	12/061291	Grant
China	800929-CN-PCT	ZL200480030892.4	200480030892.4	Grant
United States Of America	800929-US-PCT	7483833	10/576329	Grant
Germany	800929-DE-EPT	6.02004E+11	04770243.6	Grant
United Kingdom	800929-GB-EPT	1678707	04770243.6	Grant
United States Of America	800931-US-PCT	7729906	10/568641	Grant
United States Of America	800932-US-CNT	8589172	13/305077	Grant
United States Of America	800933-US-PCT	8200487	10/595831	Grant
United States Of America	800933-US-CNT	8332221	13/210214	Grant
United States Of America	800933-US-CNT[2]	8688448	13/619972	Grant
United States Of America	800934-US-PCT	7890481	11/721369	Grant
United States Of America	800935-US-CNT[2]	9741340	14/535869	Grant
United States Of America	800935-US-CNT	8918321	13/446314	Grant
United States Of America	800935-US-CNT[3]	10186259	15/679232	Grant
United States Of America	800936-US-NP	8719004	12/727736	Grant
United States Of America	800937-US-NP	9378202	12/748091	Grant
United States Of America	800937-US-CNT	10360305	15/044977	Grant
United States Of America	800938-US-CNT	9196245	14/160074	Grant
United States Of America	800938-US-NP	8676565	12/748133	Grant
United States Of America	800939-US-CNT	9275042	14/163744	Grant
United States Of America	800939-US-NP	8694304	12/748150	Grant
United States Of America	800940-US-CNT[8]		17/579327	Publication of application

Country	Case reference	Grant Number	Filing Number	Status
United States Of America	800940-US-CNT[4]	9898580	14/302879	Grant
United States Of America	800940-US-CNT	9905229	13/489266	Grant
United States Of America	800940C-US-CNT	10956860	16/041936	Grant
United States Of America	800940-US-NP[3]	8788289	13/030981	Grant
United States Of America	800940-US-NP[5]	10460288	13/030969	Grant
United States Of America	800940-US-CNT[6]	11742088	17/132637	Grant
United States Of America	800940B-US-CNT	10886028	15/887692	Grant
United States Of America	800940-US-NP[2]	8768723	13/030959	Grant
France	800940-FR-EPT[3]	3011489	14737126.4	Grant
United States Of America	800940-US-CNT[2]	8756079	13/492276	Grant
United States Of America	800940-US-NP[4]	8799021	13/030974	Grant
United Kingdom	800940-GB-EPT[3]	3011489	14737126.4	Grant
Germany	800940-DE-EPT[3]	6.02014E+11	14737126.4	Grant
United States Of America	800940-US-NP	8738403	13/030964	Grant
Germany	800940-DE-EPT[4]	6.02012E+11	12707687.5	Grant
United States Of America	800940-US-CNT[5]	11250856	15/892107	Grant
United States Of America	800940C-US-CIP	10032127	13/782048	Grant
United States Of America	800940D-US-CIP	9679107	13/921014	Grant
United States Of America	800940E-US-CIP	9916420	13/921038	Grant
United States Of America	800941-US-NP	8391464	12/803314	Grant
United States Of America	800941-US-CNT	8923502	13/774910	Grant
United States Of America	800942-US-NP	8406384	13/352640	Grant
United Kingdom	800943-GB-NP	2500460	1300898.2	Grant
United States Of America	800943-US-CNT	8838081	14/171555	Grant
United States Of America	800943-US-NP	8666378	13/424093	Grant
United States Of America	800944-US-NP[5]	9292603	13/249887	Grant
United States Of America	800945-US-PCT	9837073	14/346331	Grant
United States Of America	800946-US-NP	9542074	13/416245	Grant
United States Of America	800947-US-NP	8700398	13/305956	Grant
United States Of America	800948-US-NP	9323746	13/311836	Grant
United States Of America	800948-US-CNT	9563625	15/075265	Grant
United States Of America	800949-US-NP	9117194	13/312688	Grant
United States Of America	800950-US-CNT	8751439	13/926404	Grant
United States Of America	800950-US-CNT[2]	10140321	14/288793	Grant
United States Of America	800950-US-NP	8473451	11/086954	Grant
United States Of America	800951-US-NP	8510113	11/469134	Grant

Country	Case reference	Grant Number	Filing Number	Status
United States Of America	800951-US-CNT	8744851	13/965451	Grant
United States Of America	800951-US-CNT[2]	8977552	14/288815	Grant
United States Of America	800952-US-NP	8521539	13/429877	Grant
United States Of America	800953-US-NP	9031897	13/429041	Grant
United States Of America	800955-US-NP	8838448	13/440176	Grant
United States Of America	800956-US-NP	9037472	13/452347	Grant
United Kingdom	800956-GB-EPA	2654280	13163510.4	Grant
China	800956-CN-NP	ZL201310138618.X	201310138618.X	Grant
Germany	800956-DE-EPA	6.02013E+11	13163510.4	Grant
China	800957-CN-NP	ZL201310142182.1	201310142182.1	Grant
United States Of America	800957-US-CNT	9754592	14/563769	Grant
United States Of America	800957-US-NP	8909536	13/452557	Grant
United States Of America	800958-US-PCT	9406299	14/399867	Grant
United States Of America	800959-US-NP	8972312	13/569742	Grant
United States Of America	800959-US-NP[2]	9064491	13/569830	Grant
United States Of America	800959-US-NP[3]	9117444	13/569792	Grant
United States Of America	800960-US-CNT	9099092	14/152136	Grant
United States Of America	800960-US-NP	8630860	13/039467	Grant
United States Of America	800960-US-CNT[2]	10032454	14/750000	Grant
United States Of America	800961-US-PCT	9953638	14/411236	Grant
United States Of America	800962-US-NP	8990091	13/560274	Grant
United States Of America	800963-US-NP	9292252	13/565000	Grant
United States Of America	800964-US-NP	8799959	13/587222	Grant
United States Of America	800964-US-NP[5]	9026448	13/587300	Grant
United States Of America	800964-US-NP[6]	9106957	13/587353	Grant
United States Of America	800964-US-NP[7]	9619812	13/597017	Grant
United States Of America	800964-US-NP[3]	9031848	13/587280	Grant
United States Of America	800964-US-NP[4]	9497515	13/587234	Grant
United States Of America	800965-US-CNT	9066150	14/314764	Grant
United States Of America	800966-US-NP	8682748	11/411370	Grant
United States Of America	800967-US-CNT[2]	9584662	14/950062	Grant
United States Of America	800967-US-NP	8683437	10/826065	Grant
United States Of America	800968-US-NP	8688453	13/037114	Grant
United States Of America	800969-US-NP	9619459	13/632380	Grant
United States Of America	800970-US-NP[5]	10276157	13/632344	Grant
United States Of America	800971-US-NP	8700404	11/212266	Grant

Country	Case reference	Grant Number	Filing Number	Status
United States Of America	800971-US-CNT[2]	9905223	14/963423	Grant
United States Of America	800972-US-NP	8983849	13/834575	Grant
United States Of America	800972-US-DIV	9361292	14/702267	Grant
South Korea / Republic of Korea	800972-KR-PCT	10-1693653	10-2015-7012909	Grant
China	800972-CN-PCT	ZL201380066013.2	201380066013.2	Grant
United States Of America	800972-US-NP[2]	9035884	13/834887	Grant
United States Of America	800973-US-NP[3]	9613125	13/649866	Grant
United States Of America	800973-US-NP[2]	9239872	13/649988	Grant
China	800974-CN-PCT	ZL201280076276.7	201280076276.7	Grant
Germany	800974-DE-EPT	6.02012E+11	12772691.7	Grant
United States Of America	800974-US-PCT	9886944	14/433263	Grant
United Kingdom	800974-GB-EPT	2904608	12772691.7	Grant
United States Of America	800975-US-NP	9319526	13/668050	Grant
United States Of America	800977-US-NP	8738376	13/284373	Grant
United States Of America	800977-US-CNT	8972258	14/284738	Grant
United States Of America	800978-US-CNT	9355650	14/703107	Grant
United States Of America	800978-US-CNT[2]	9570092	15/138262	Grant
United States Of America	800978-US-NP	9047871	13/712288	Grant
United States Of America	800979-US-NP[4]	9262175	13/710701	Grant
United States Of America	800979-US-NP[5]	9276802	13/710649	Grant
United States Of America	800979-US-NP[8]	9679300	13/711036	Grant
China	800979-CN-PCT	ZL201380061246.3	201380061246.3	Grant
United States Of America	800979-US-NP[7]	9659298	13/710678	Grant
United States Of America	800979-US-NP[3]	9148394	13/711069	Grant
United States Of America	800979-US-NP[6]	9560089	13/710721	Grant
United States Of America	800980-US-NP	9015097	13/720437	Grant
United States Of America	800982A-US-CIP	9406298	13/856992	Grant
United States Of America	800985-US-NP	9361884	13/793822	Grant
United States Of America	800986A-US-CIP	9761225	14/314248	Grant
United States Of America	800986A-US-CNT	10540965	15/700438	Grant
United States Of America	800986-US-NP	9269354	13/793854	Grant
United States Of America	800987-US-NP	9111546	13/787766	Grant
United States Of America	800988-US-CNT	9373327	14/677426	Grant
United States Of America	800988-US-NP	9015045	13/792954	Grant
United States Of America	800989-US-NP	10223411	13/787763	Grant
United States Of America	800990-US-NP	9939980	13/787772	Grant
United States Of America	800992-US-PCT	9679560	14/770371	Grant
United States Of America	800992-US-CNT	10229701	15/619877	Grant

Country	Case reference	Grant Number	Filing Number	Status
United States Of America	800993-US-NP	9538002	13/833955	Grant
United States Of America	800994-US-NP	9613641	13/799876	Grant
United States Of America	800995-US-NP	10235359	13/941783	Grant
United States Of America	800996-US-NP	10229106	13/952175	Grant
United States Of America	800997-US-NP	9606984	13/969825	Grant
United States Of America	800998-US-NP	10403272	14/201775	Grant
United States Of America	800999-US-NP	10956480	16/023220	Grant
United States Of America	801000-US-NP	10580429	16/108959	Grant
United States Of America	801001-US-NP	10776073	16/154439	Grant
United States Of America	801002-US-NP	11670408	16/588475	Grant
European Procedure (Patents)	801002-EP-EPT		20870934.5	Publication of application
United States Of America	801003-US-NP	10971157	15/403762	Grant
United States Of America	801003-US-CNT		17/171513	Publication of application
United States Of America	801004-US-NP	6999933	10/105498	Grant
United States Of America	801006-US-NP	6973575	09/827079	Grant
United States Of America	801008-US-NP	7010486	10/075865	Grant
United States Of America	801012-US-NP	7206738	10/219686	Grant
United States Of America	801013-US-NP	7236931	10/424140	Grant
United States Of America	801013-US-NP[2]	7292975	10/424134	Grant
United States Of America	801015-US-NP	7349844	10/660445	Grant
United States Of America	801017-US-NP[2]	7542787	11/354198	Grant
United States Of America	801017-US-NP	7027842	10/253213	Grant
United States Of America	801017A-US-CIP	7899500	11/639483	Grant
United States Of America	801018-US-NP	7356474	10/246855	Grant
United States Of America	801020-US-NP	7191129	10/279438	Grant
United States Of America	801021-US-PCT	7478048	10/629131	Grant
United States Of America	801022-US-NP	7389228	10/320020	Grant
United States Of America	801023-US-NP	7523034	10/318488	Grant
United States Of America	801025-US-NP[2]	7336771	10/345291	Grant
United States Of America	801027-US-NP	8392173	10/364704	Grant
United States Of America	801028-US-NP	7222072	10/367629	Grant
United States Of America	801030-US-PCT	7707033	10/480353	Grant
United States Of America	801031-US-NP	7340397	10/378506	Grant
United States Of America	801032-US-NP	8326653	10/378748	Grant
United States Of America	801033-US-NP	7260537	10/396081	Grant
United States Of America	801034-US-NP	7305339	10/405733	Grant
United States Of America	801034-US-CNT	8412526	11/923705	Grant

Country	Case reference	Grant Number	Filing Number	Status
United States Of America	801035-US-NP	7409345	10/407116	Grant
United States Of America	801036-US-NP	7711568	10/406368	Grant
United States Of America	801039-US-NP	7184539	10/425246	Grant
United States Of America	801040-US-NP	7233938	10/413405	Grant
United States Of America	801043-US-NP	7409342	10/815211	Grant
United States Of America	801044-US-CNT	7533025	11/761079	Grant
United States Of America	801044-US-NP	7349845	10/654205	Grant
United States Of America	801045-US-NP	7475015	10/655838	Grant
United States Of America	801046-US-NP	7069303	10/922224	Grant
United States Of America	801046-US-CNT	7401147	11/389587	Grant
United States Of America	801049-US-NP	7366666	10/677044	Grant
United States Of America	801049-US-CNT[2]	8630856	12/499544	Grant
United States Of America	801050-US-NP	7386440	10/676524	Grant
United States Of America	801051-US-NP	7383170	10/683648	Grant
United States Of America	801051-US-CNT	8625773	12/106753	Grant
United States Of America	801052A-US-CNT	8525640	13/337995	Grant
United States Of America	801052A-US-CNT[3]	9443420	14/247451	Grant
United States Of America	801052A-US-CIP	8106742	11/834131	Grant
United States Of America	801055-US-CNT	8670977	13/052819	Grant
United States Of America	801055-US-CNT[2]	9286890	14/200700	Grant
United States Of America	801055-US-CNT[3]	9965552	15/055975	Grant
United States Of America	801058-US-PCT	8438026	10/597983	Grant
China	801058-CN-PCT	ZL200580005136.0	200580005136.0	Grant
United States Of America	801059-US-NP	7729912	10/742852	Grant
United States Of America	801059-US-CNT[2]	8209176	13/219640	Grant
United States Of America	801060-US-NP	8069411	11/481359	Grant
United States Of America	801061-US-NP	8433558	11/188825	Grant
United States Of America	801061-US-CNT	8798990	13/873548	Grant
United States Of America	801061-US-CNT[2]	9792904	14/338602	Grant
United States Of America	801062-US-CNT	8924216	14/038912	Grant
United States Of America	801062-US-PCT	8560327	12/064646	Grant
United States Of America	801064-US-NP	8073700	11/422093	Grant
United States Of America	801064-US-CNT	8781840	13/756073	Grant
United States Of America	801066-US-NP	7191130	10/260383	Grant
United States Of America	801067-US-CNT	8229091	12/420989	Grant

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United States Of America	801067-US-NP	7526073	11/173883	Grant
United States Of America	801068-US-NP	8265260	11/191756	Grant
United States Of America	801069-US-CNT	8781832	12/056001	Grant
United States Of America	801071-US-NP	8265939	11/216483	Grant
United States Of America	801076-US-NP	7206389	10/753590	Grant
United States Of America	801078-US-NP	8229745	11/163522	Grant
South Korea / Republic of Korea	801078-KR-DIV	10-0923180	10-2008-0096701	Grant
United States Of America	801081-US-NP	7809566	11/549362	Grant
United States Of America	801082-US-PCT	8452594	12/091079	Grant
United States Of America	801082-US-CNT	8712772	13/902495	Grant
United Kingdom	801082-GB-EPT	1943641	06809611.4	Grant
Germany	801082-DE-EPT	6.02006E+11	06809611.4	Grant
United States Of America	801084-US-CNT[3]	8682676	13/677553	Grant
United States Of America	801084-US-NP	7822610	11/501998	Grant
United States Of America	801084-US-CNT[2]	8315878	13/051167	Grant
United States Of America	801084-US-CNT[4]	9293139	14/177769	Grant
United States Of America	801085-US-CNT[3]	8989713	13/302342	Grant
United States Of America	801085-US-DIV[7]	8953753	11/931986	Grant
United States Of America	801085-US-DIV[8]	9191515	11/930962	Grant
United States Of America	801085-US-DIV[6]	8934611	11/931000	Grant
United States Of America	801085B-US-CIP	8374863	11/931923	Grant
United States Of America	801085C-US-CIP	8976944	11/931736	Grant
United States Of America	801086-US-CNT[2]	8612231	13/715679	Grant
United States Of America	801086-US-CNT	8364489	13/366123	Grant
United States Of America	801087-US-CNT	8417528	13/366096	Grant
United States Of America	801087-US-CNT[2]	8666745	13/786973	Grant
United States Of America	801088-US-CNT[2]	9258416	13/763628	Grant
United States Of America	801088-US-NP	7773731	11/300186	Grant
United States Of America	801088-US-CNT	8396195	12/829453	Grant
United States Of America	801089-US-NP	7657006	11/304032	Grant
United States Of America	801089-US-CNT[4]	9432515	14/697995	Grant
United States Of America	801089-US-CNT[2]	8699676	13/849997	Grant
United States Of America	801089-US-CNT	8406385	12/637378	Grant

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United States Of America	801090-US-CNT	8504366	13/297294	Grant
Germany	801090-DE-EPT	6.02006E+11	06819558.5	Grant
United States Of America	801091-US-CNT	7660828	11/773659	Grant
United States Of America	801093-US-NP	7263486	10/404699	Grant
United States Of America	801094-US-CNT	8862477	13/908411	Grant
United States Of America	801094-US-NP	8457973	11/276542	Grant
United States Of America	801095-US-NP	8131548	11/369092	Grant
United States Of America	801096-US-NP	8311836	11/375417	Grant
United States Of America	801097-US-NP	7280965	10/407565	Grant
United States Of America	801099-US-NP	8301448	11/392900	Grant
United States Of America	801099-US-CNT	9002710	13/611351	Grant
United States Of America	801101-US-CNT[2]	9374612	14/062067	Grant
United States Of America	801102-US-NP	7707027	11/279577	Grant
United States Of America	801104-US-NP	7861176	11/697654	Grant
United States Of America	801105-US-NP	7580925	11/379354	Grant
United States Of America	801105-US-DIV	8204921	12/243882	Grant
United States Of America	801106-US-NP	7292680	10/102986	Grant
United States Of America	801107-US-NP	7295970	10/350727	Grant
United States Of America	801108-US-CNT	7620550	11/866685	Grant
United States Of America	801108-US-NP	7295981	10/755014	Grant
United States Of America	801110-US-PCT	8566093	12/227282	Grant
United States Of America	801112-US-CNT	8626127	12/647988	Grant
United States Of America	801116-US-NP	7729917	11/688939	Grant
United States Of America	801117-US-CNT[2]	9070368	14/321932	Grant
United States Of America	801117-US-NP	8521510	11/469016	Grant
United States Of America	801117-US-CNT	8775176	13/975901	Grant
United States Of America	801118-US-NP	8428944	11/745029	Grant
United States Of America	801119-US-NP	7584104	11/530258	Grant
United States Of America	801120-US-CNT[2]	9292183	13/922969	Grant
United States Of America	801121-US-CNT	8706500	13/287031	Grant
United States Of America	801121-US-NP	8073697	11/530916	Grant
United States Of America	801122-US-CNT[3]	8862471	13/953027	Grant
United States Of America	801122-US-CNT	8239205	13/095037	Grant
United States Of America	801125-US-NP	7346505	09/964395	Grant
United States Of America	801127-US-DIV	7729902	11/927738	Grant
United States Of America	801128-US-CNT[3]	8442834	13/587554	Grant

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United States Of America	801128-US-CNT[2]	8249879	13/290501	Grant
United States Of America	801128-US-CNT[4]	8688456	13/891447	Grant
United States Of America	801128-US-DIV	7580842	11/928886	Grant
United States Of America	801128-US-NP	7373300	10/740186	Grant
United States Of America	801129-US-CNT[3]	8296138	13/302352	Grant
United States Of America	801129-US-CNT	7822603	12/115034	Grant
United States Of America	801129-US-NP	7386443	10/754927	Grant
United States Of America	801129-US-CNT[7]	10607600	15/894302	Grant
United States Of America	801129-US-CNT[6]	9892728	15/071645	Grant
United States Of America	801129-US-CNT[5]	9460709	14/225499	Grant
United States Of America	801129-US-CNT[4]	8688444	13/657090	Grant
United States Of America	801130-US-NP	7386452	09/491902	Grant
United States Of America	801131-US-NP	7389230	10/421356	Grant
United States Of America	801132-US-CNT	8626509	12/055653	Grant
United States Of America	801133-US-CNT	8700397	13/562114	Grant
United States Of America	801133-US-NP	8255216	11/554047	Grant
United States Of America	801134-US-CNT	8565738	13/619453	Grant
United States Of America	801134-US-NP[2]	8280360	11/636172	Grant
United States Of America	801134-US-NP	7792266	11/529078	Grant
United States Of America	801134A-US-CIP	8363807	11/904368	Grant
United States Of America	801136-US-NP	7827033	11/567235	Grant
United States Of America	801137-US-NP	7921214	11/613040	Grant
United States Of America	801138-US-NP	9288320	13/327319	Grant
United States Of America	801139-US-NP	9292253	13/565084	Grant
United States Of America	801140-US-NP	9026659	13/759186	Grant
Germany	801140-DE-EPA	6.02014E+11	14153889.2	Grant
United States Of America	801140-US-CNT	9288156	14/677169	Grant
United States Of America	801141-US-NP	10795528	13/787775	Grant
United States Of America	801142-US-CNT	9959260	14/702825	Grant
United States Of America	801142-US-NP	9026915	11/263051	Grant
United States Of America	801143-US-NP	9871808	14/253384	Grant
United States Of America	801145-US-NP	10237412	14/256567	Grant
United States Of America	801146-US-NP	10331763	14/296249	Grant
United States Of America	801147-US-CNT	11101024	16/502626	Grant

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United States Of America	801147-US-NP	10373711	14/296274	Grant
United States Of America	801148-US-NP	10366424	14/296214	Grant
United States Of America	801149-US-NP	10319004	14/296303	Grant
China	801150-CN-PCT	ZL201580031725.X	201580031725.X	Grant
United States Of America	801150-US-NP	9606985	14/304289	Grant
United States Of America	801150-US-CNT	10388278	15/430658	Grant
United States Of America	801151-US-NP	9627532	14/308054	Grant
United States Of America	801152-US-CNT	10643235	14/447414	Grant
United States Of America	801152-US-NP	9639854	14/316663	Grant
United States Of America	801152-US-DIV	11055739	16/867032	Grant
United States Of America	801152-US-CNT[3]	9626695	14/451151	Grant
United States Of America	801152-US-CNT[2]	9639855	14/450146	Grant
United States Of America	801153-US-PCT	10614808	14/416156	Grant
United States Of America	801153-US-CNT	10930288	16/842321	Grant
United States Of America	801154-US-NP	10120955	14/677246	Grant
United States Of America	801155-US-NP	10276166	14/337411	Grant
United States Of America	801156-US-PCT	10229686	15/329354	Grant
United States Of America	801157-US-NP	10698585	14/473073	Grant
United States Of America	801158-US-NP	9508028	14/495741	Grant
United States Of America	801159-US-NP	10008208	14/489996	Grant
United States Of America	801159-US-CNT[2]	10529338	16/019447	Grant
Germany	801159-DE-EPT	6.02015E+11	15766367.5	Grant
United Kingdom	801159-GB-EPT	3195311	15766367.5	Grant
China	801159-CN-PCT	ZL201580050362.4	201580050362.4	Grant
United States Of America	801160-US-NP	9299345	11/425243	Grant
United States Of America	801161-US-PCT	10650805	15/510434	Grant
United States Of America	801162-US-PCT	10097871	15/507255	Grant
United States Of America	801163-US-NP	9570065	14/499444	Grant
United States Of America	801163-US-CNT	9990915	15/392923	Grant
United States Of America	801164-US-PCT	10672391	15/512281	Grant
United States Of America	801165-US-NP	9666185	14/506873	Grant
Germany	801165-DE-EPT	6.02015E+11	15779090.8	Grant
United Kingdom	801165-GB-EPT	3204938	15779090.8	Grant
United States Of America	801166-US-PCT	10210003	15/509884	Grant
United States Of America	801167-US-NP	9760560	14/663368	Grant
United States Of America	801168-US-NP	9564140	14/680360	Grant
United States Of America	801169-US-NP	9524716	14/689564	Grant

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United States Of America	801170-US-NP	10109277	14/696803	Grant
United States Of America	801171-US-NP	10013652	14/699778	Grant
United States Of America	801173-US-CNT	10832682	16/783898	Grant
United States Of America	801173-US-NP	9666192	14/721252	Grant
United States Of America	801173-US-PCT	10559303	15/577096	Grant
United States Of America	801174-US-NP	10631057	14/808354	Grant
United States Of America	801176-US-NP	10706210	15/252704	Grant
United States Of America	801185-US-NP	7225126	09/879313	Grant
United States Of America	801187-US-NP	7480613	10/210835	Grant
United States Of America	801188-US-CNT	7689418	10/242540	Grant
United States Of America	801190-US-NP[4]	7505908	10/216390	Grant
United States Of America	801193-US-NP	7343290	10/252859	Grant
United States Of America	801196-US-NP	7376560	10/267293	Grant
United States Of America	801198-US-NP	7171360	10/140499	Grant
United States Of America	801203-US-PCT	7174296	10/258048	Grant
United States Of America	801206-US-NP	7272377	10/067851	Grant
United States Of America	801208-US-NP	7054813	10/086359	Grant
United States Of America	801209-US-NP	7092884	10/086395	Grant
United States Of America	801211-US-NP	7478041	10/386726	Grant
United States Of America	801213-US-NP	7016842	10/106074	Grant
United States Of America	801214-US-NP	6928407	10/109960	Grant
United States Of America	801216-US-CNT	8463608	13/417824	Grant
United States Of America	801216-US-NP	8160876	10/953712	Grant
United States Of America	801217-US-NP	8577681	10/939942	Grant
United States Of America	801218-US-NP	8150687	11/000165	Grant
United States Of America	801221-US-NP	7567896	11/037545	Grant
United States Of America	801222-US-NP	7505906	10/787782	Grant
United States Of America	801223-US-NP[2]	7539484	11/672499	Grant
United States Of America	801223-US-PCD[5]	8600429	12/834398	Grant
United States Of America	801223-US-PCT[4]	8682298	12/089690	Grant
United States Of America	801223-US-CNT[4]	9313606	14/095931	Grant
United States Of America	801223-US-DIV[2]	8285263	12/983926	Grant
United States Of America	801223-US-PCT[7]	8744414	12/521989	Grant
United States Of America	801223-US-CNT[5]	9301128	14/281422	Grant
Mexico	801223-MX-PCT	282481	MX/a/2008/010234	Grant
China	801223-CN-PCD	ZL201510137787.0	201510137787.0	Grant
United States Of America	801223-US-DIV[3]	8731544	13/269970	Grant
United States Of America	801223-US-CNT	7676221	11/765387	Grant

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United Kingdom	801223-GB-EPT	1719253	05713762.2	Grant
United States Of America	801223-US-NP	7353016	11/063663	Grant
United States Of America	801223-US-PCT[2]	8219811	11/575058	Grant
United States Of America	801223-US-PCT[5]	7756545	11/685108	Grant
China	801223-CN-PCT[3]	ZL200680031104.2	200680031104.2	Grant
United States Of America	801223-US-DIV[4]	8682301	13/613314	Grant
Germany	801223-DE-EPT	6.02005E+11	05713762.2	Grant
United States Of America	801223-US-PCT[3]	8301123	11/917323	Grant
Israel	801223-IL-PCT[3]	193292	193292	Grant
United States Of America	801235-US-CNT	8744861	13/410103	Grant
United States Of America	801236L-US-CIP	8886545	12/691504	Grant
United States Of America	801236V-US-CIP	8635243	12/870257	Grant
United States Of America	801236W-US-CIP	8949266	12/870221	Grant
United States Of America	801241-US-CNT	9530149	14/488190	Grant
United States Of America	801242-US-PCT	9741346	14/778020	Grant
United States Of America	801243-US-NP	9870784	14/019860	Grant
United States Of America	801243A-US-CIP	9685173	14/138944	Grant
United States Of America	801244-US-CNT[2]	10096318	15/689837	Grant
United States Of America	801244-US-NP	9280968	14/046393	Grant
United States Of America	801244-US-CNT	9754587	15/056000	Grant
United States Of America	801245-US-NP	9009046	11/235742	Grant
United States Of America	801245-US-CNT	9454960	14/684880	Grant
United States Of America	801246-US-NP	7143035	10/107723	Grant
United States Of America	801248A-US-CIP	8392188	09/956907	Grant
United States Of America	801253-US-NP	7246062	10/118478	Grant
United States Of America	801256-US-NP[2]	7869998	10/325295	Grant
United States Of America	801256-US-NP	7152029	10/160461	Grant
United States Of America	801256A-US-CIP	8566102	10/288764	Grant
United States Of America	801260-US-NP	7085707	10/132401	Grant
United States Of America	801262-US-NP	7403896	10/389859	Grant
United States Of America	801263-US-NP	7340392	10/164972	Grant
United States Of America	801267-US-DIV	9516155	11/968467	Grant
United States Of America	801267-US-NP	7315613	10/386247	Grant
United States Of America	801268-US-NP	7386454	10/210704	Grant
United States Of America	801270-US-CNT[2]	8744857	13/677404	Grant
United States Of America	801270-US-NP	8103509	11/999334	Grant
United States Of America	801270-US-CNT[3]	9275634	14/177753	Grant

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United States Of America	801270-US-CNT	8315875	13/332444	Grant
China	801270-CN-PCT	ZL200780044993.0	200780044993.0	Grant
United States Of America	801272-US-CNT	10586018	14/328411	Grant
United States Of America	801272-US-PCT	8930210	12/593633	Grant
United Kingdom	801274-GB-EPT	2862164	13861533.1	Grant
Germany	801274-DE-EPT	6.02013E+11	13861533.1	Grant
United States Of America	801274-US-PCT	9940927	14/364156	Grant
United States Of America	801275-US-NP	9848260	14/035142	Grant
United States Of America	801277-US-NP	7127393	10/364298	Grant
United States Of America	801290-US-NP	7383187	09/769880	Grant
United States Of America	801291-US-NP	7054810	09/968051	Grant
United States Of America	801292-US-NP	6985863	10/056149	Grant
United States Of America	801295-US-NP	7318031	09/852110	Grant
United States Of America	801298-US-NP	6973428	09/864982	Grant
United States Of America	801302A-US-CIP	7269546	10/062042	Grant
United States Of America	801303-US-NP	7289962	09/894608	Grant
United States Of America	801304-US-NP	7305228	10/186708	Grant
International Procedure	801305-WO-PCT		PCT/US23/022815	Filing
United States Of America	801305-US-NP		17/840795	Filing
United States Of America	801306-US-NP	7050568	09/931991	Grant
United States Of America	801307-US-NP	7039579	09/952974	Grant
United States Of America	801311-US-NP	7184956	10/281694	Grant
United States Of America	801313-US-NP	7069213	10/047741	Grant
United States Of America	801316-US-NP	7058565	10/015246	Grant
United States Of America	801317-US-CNT[3]	8050908	12/134503	Grant
United States Of America	801317-US-NP[2]	7289948	10/199227	Grant
United States Of America	801318-US-NP	8190436	10/310596	Grant
United States Of America	801319-US-NP	7039587	10/039258	Grant
United States Of America	801320-US-DIV	8204175	11/442367	Grant
United States Of America	801321-US-NP	7103551	10/139265	Grant
United States Of America	801322-US-NP	7424425	10/151352	Grant
United States Of America	801325-US-NP	7822609	10/172280	Grant
United States Of America	801326-US-NP	7286991	10/448786	Grant
United States Of America	801326-US-CNT	7870002	11/876222	Grant
United States Of America	801329-US-NP	7136807	10/228122	Grant
United States Of America	801330-US-NP	7149688	10/287438	Grant
United States Of America	801331-US-NP	7873390	10/725673	Grant
United States Of America	801333-US-NP	7225124	10/315680	Grant

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United States Of America	801334-US-NP	7392182	10/324737	Grant
United States Of America	801338-US-NP	7251603	10/601350	Grant
United States Of America	801340-US-NP	7389223	10/666870	Grant
United States Of America	801341-US-PCT	7606352	10/498928	Grant
United States Of America	801342-US-NP	7752046	10/976378	Grant
United Kingdom	801342-GB-EPA	1528538	04270008.8	Grant
United States Of America	801344-US-NP	8233592	10/705328	Grant
United States Of America	801344-US-CNT	8831185	13/537291	Grant
United States Of America	801345-US-CNT	8355918	13/344193	Grant
United States Of America	801346-US-NP	7415415	10/919683	Grant
United States Of America	801347-US-CNT	7627471	12/145177	Grant
United States Of America	801347-US-NP	7406414	10/736390	Grant
United States Of America	801348-US-CNT[2]	8498384	13/633571	Grant
United States Of America	801348-US-NP	7415101	10/736296	Grant
United States Of America	801348-US-CNT[3]	8737576	13/934749	Grant
United States Of America	801348-US-CNT	8280013	12/173553	Grant
United States Of America	801349-US-NP	7542907	10/741465	Grant
United States Of America	801350-US-CNT[2]	8352962	13/334308	Grant
United States Of America	801350-US-NP	7401337	10/741499	Grant
United States Of America	801351-US-NP	7409690	10/741997	Grant
United States Of America	801352-US-NP	7542909	10/951281	Grant
United States Of America	801353-US-NP	7620159	10/843924	Grant
United States Of America	801353-US-CNT	8218754	12/619289	Grant
United States Of America	801354-US-NP	7281022	10/847084	Grant
United States Of America	801356-US-CNT[2]	8761381	13/681970	Grant
United States Of America	801356-US-CNT	8315360	12/326630	Grant
United States Of America	801358-US-NP	7472065	10/861055	Grant
United States Of America	801359-US-NP	8768711	10/870517	Grant
United States Of America	801360-US-NP	7636661	11/172045	Grant
United States Of America	801361-US-NP	7574356	10/894201	Grant
United States Of America	801361-US-CNT[2]	8229747	13/109293	Grant
United States Of America	801377-US-NP	7093129	09/596663	Grant
United States Of America	801378-US-NP	7487085	10/924520	Grant
China	801382-CN-NP	ZL200510117097.5	200510117097.5	Grant
United States Of America	801382-US-NP	8311822	10/979334	Grant
United States Of America	801382-US-CNT	8438025	13/561448	Grant

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United States Of America	801383-US-PCT	7769580	10/538876	Grant
United States Of America	801384-US-CNT	7813927	12/132770	Grant
United States Of America	801384-US-NP	7447633	10/994743	Grant
United States Of America	801386A-US-CIP	8214214	12/579233	Grant
United States Of America	801387-US-CNT	8503662	12/787468	Grant
United States Of America	801387-US-CNT[2]	8824659	13/934674	Grant
United States Of America	801387-US-NP	7751551	11/032495	Grant
United States Of America	801387-US-CNT[3]	9088652	14/321712	Grant
United States Of America	801388-US-NP	7627096	11/036201	Grant
United States Of America	801389-US-NP	7548977	11/056493	Grant
United States Of America	801390-US-NP	7747437	11/305825	Grant
United Kingdom	801391-GB-EPT	1702319	04791820.6	Grant
Germany	801391-DE-EPT	6.02004E+11	04791820.6	Grant
China	801391-CN-PCT	ZL200480032825.6	200480032825.6	Grant
United States Of America	801391-US-PCT	7617106	10/578073	Grant
United States Of America	801392-US-CNT	9653072	14/299761	Grant
United States Of America	801392-US-NP	8751240	11/128564	Grant
United States Of America	801396-US-NP	7162421	10/140526	Grant
United States Of America	801397-US-NP	7177796	09/605709	Grant
United States Of America	801401-US-NP	7716051	11/427029	Grant
United States Of America	801404-US-NP	7865364	11/429496	Grant
United States Of America	801405-US-NP	7418281	11/225616	Grant
United States Of America	801406-US-CNT[2]	8328089	13/185000	Grant
United States Of America	801406-US-NP	7395959	11/260584	Grant
United States Of America	801407-US-NP	8756057	11/265591	Grant
United States Of America	801408-US-NP	8737591	11/586204	Grant
United States Of America	801409-US-NP	8832064	11/319188	Grant
United States Of America	801410-US-CNT[2]	9412370	14/310365	Grant
Germany	801410-DE-EPT	6.02006E+11	06832129.8	Grant
United States Of America	801410-US-CNT	8798997	13/913594	Grant
United Kingdom	801410-GB-EPT	1960998	06832129.8	Grant
United States Of America	801410-US-PCT	8473296	12/096055	Grant
United States Of America	801411-US-NP	8451823	11/301434	Grant
United States Of America	801412-US-CNT[2]	10192543	15/151277	Grant
United States Of America	801412-US-CNT	9384190	14/088858	Grant
United States Of America	801412-US-NP	8612229	11/300799	Grant

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United States Of America	801414-US-NP	8195462	11/276151	Grant
United States Of America	801415-US-NP	7292976	10/447888	Grant
United States Of America	801416-US-NP	7292982	10/447889	Grant
United States Of America	801417-US-NP	9208785	11/382573	Grant
United States Of America	801418-US-NP	7848314	11/382575	Grant
United States Of America	801419-US-NP	8332218	11/423710	Grant
United States Of America	801420-US-NP	8370127	11/454694	Grant
United States Of America	801421-US-NP	7747445	11/457057	Grant
United States Of America	801422-US-NP	7747443	11/773256	Grant
United States Of America	801422-US-CNT	7729921	12/184182	Grant
United States Of America	801423-US-CNT[2]	9477971	14/053490	Grant
United States Of America	801423-US-CNT	8560323	13/170463	Grant
United States Of America	801424-US-NP	7957959	11/780607	Grant
United States Of America	801425-US-CNT[2]	9343064	14/090354	Grant
United States Of America	801425-US-NP	8374874	11/530628	Grant
United States Of America	801425-US-CNT	8600755	13/748441	Grant
United States Of America	801426-US-CNT	8625751	13/186876	Grant
United States Of America	801426-US-NP	8009812	11/590649	Grant
United States Of America	801427-US-NP	8792627	11/556628	Grant
United States Of America	801428-US-NP	8204738	11/556477	Grant
United States Of America	801429-US-NP	8099287	11/567084	Grant
United States Of America	801430-US-NP	7747446	11/609667	Grant
United States Of America	801431-US-NP	8000969	11/613176	Grant
United States Of America	801431-US-CNT[2]	8874447	13/543198	Grant
United States Of America	801431-US-CNT	8239204	13/179098	Grant
United States Of America	801432A-US-CIP	8010367	11/768526	Grant
United States Of America	801433-US-PCT	8447594	12/312818	Grant
United States Of America	801435-US-NP	8909528	11/746087	Grant
United States Of America	801436-US-CNT[4]	10446140	16/139133	Grant
United States Of America	801436-US-CNT[3]	10083687	15/784653	Grant
United States Of America	801436-US-CNT[2]	9792906	15/171177	Grant
United States Of America	801436-US-NP	8762143	11/754814	Grant
United States Of America	801436-US-CNT	9361881	14/312116	Grant
United States Of America	801437-US-NP	8831941	11/754800	Grant
United States Of America	801438-US-NP	8386254	12/114005	Grant

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United States Of America	801439-US-NP	7881930	11/767537	Grant
United States Of America	801440-US-NP	8566091	11/955233	Grant
United States Of America	801441-US-NP	8831946	11/781285	Grant
United States Of America	801441A-US-CIP	9405823	12/140282	Grant
United States Of America	801443-US-NP	7552098	11/324011	Grant
United States Of America	801444-US-NP	8271281	12/147898	Grant
United States Of America	801445-US-CNT	9530415	14/928193	Grant
United States Of America	801445-US-NP	9177551	12/128345	Grant
United States Of America	801446-US-NP	8787535	12/022855	Grant
United States Of America	801448-US-NP	7571098	10/448149	Grant
United States Of America	801449-US-CNT	8565401	13/495370	Grant
United States Of America	801449-US-NP	8275108	12/037553	Grant
United States Of America	801450-US-CNT[3]	9219820	13/971657	Grant
United States Of America	801450-US-CNT[2]	8515045	13/476897	Grant
United States Of America	801450-US-NP	7593520	11/294322	Grant
United States Of America	801452-US-CNT	9536519	14/926544	Grant
United States Of America	801452-US-NP	9202460	12/120369	Grant
United States Of America	801453-US-NP	8219397	12/136342	Grant
United States Of America	801454-US-NP	8321277	12/164633	Grant
United States Of America	801455-US-PCT	8798238	12/160956	Grant
United States Of America	801457-US-NP	8484582	12/464756	Grant
United States Of America	801458-US-CNT[2]	9406292	14/287892	Grant
United States Of America	801458-US-NP	7664644	11/423212	Grant
United States Of America	801458-US-CNT[3]	9905222	15/215710	Grant
United States Of America	801458-US-CNT	8738379	12/647901	Grant
United States Of America	801459-US-NP	8762153	12/209776	Grant
United States Of America	801461-US-NP	8199888	12/328370	Grant
United States Of America	801461-US-CNT	8792623	13/493286	Grant
United States Of America	801461-US-CNT[3]	9473641	14/880501	Grant
United States Of America	801461-US-CNT[2]	9179001	14/338541	Grant
United States Of America	801462-US-NP	8175873	12/333863	Grant
United States Of America	801462-US-CNT	8566090	13/465685	Grant
United States Of America	801464-US-NP	7835910	10/448415	Grant
United States Of America	801465-US-NP	8943437	12/816247	Grant
United States Of America	801466-US-NP	9141705	12/816373	Grant

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United States Of America	801467-US-NP	8793119	12/501925	Grant
United States Of America	801467-US-CNT[3]	9741336	15/185304	Grant
United States Of America	801467-US-CNT	8954319	14/338550	Grant
United States Of America	801467-US-CNT[2]	9373323	14/617172	Grant
United States Of America	801468-US-NP	8457967	12/541927	Grant
United States Of America	801469-US-CNT[2]	8478593	13/552218	Grant
United States Of America	801469-US-CNT[3]	8725511	13/933155	Grant
United States Of America	801469-US-CNT[4]	9412364	14/268061	Grant
United States Of America	801469-US-CNT	8229746	13/026884	Grant
United States Of America	801470-US-CNT	9454966	13/926552	Grant
United States Of America	801470-US-NP	8473292	12/552832	Grant
United States Of America	801472-US-NP	9653066	12/604650	Grant
United States Of America	801473-US-NP	8892443	12/638667	Grant
United States Of America	801473-US-CNT[2]	10121468	15/183066	Grant
United States Of America	801473-US-CNT	9373326	14/541738	Grant
United States Of America	801474-US-NP	8447603	12/639011	Grant
United States Of America	801475-US-PCT	9478216	13/514458	Grant
United States Of America	801476-US-NP	8315799	12/777924	Grant
United States Of America	801477-US-CNT	8467777	13/679478	Grant
United States Of America	801477-US-CNT[2]	8600368	13/892397	Grant
United States Of America	801477-US-NP	8355703	12/796290	Grant
United States Of America	801478-US-PCT	9037463	13/518409	Grant
United States Of America	801479-US-NP	8918803	12/823734	Grant
United States Of America	801479-US-CNT	9571887	14/542807	Grant
United States Of America	801480-US-CNT	9215203	14/035181	Grant
United States Of America	801480-US-NP	8543652	12/841830	Grant
United States Of America	801480-US-CNT[2]	9672826	14/963500	Grant
United States Of America	801481-US-NP	8879695	12/852190	Grant
United States Of America	801481-US-CNT[2]	9992344	14/850082	Grant
United States Of America	801481-US-CNT	9137375	14/531572	Grant
United States Of America	801482-US-NP	8762150	12/883901	Grant
United States Of America	801483-US-NP	10002608	12/884959	Grant
United States Of America	801484-US-CNT	8532995	13/476155	Grant

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United States Of America	801485-US-CNT	8639517	13/524714	Grant
United States Of America	801485-US-NP	8204751	11/459523	Grant
United States Of America	801486-US-CNT	9070369	14/445328	Grant
United States Of America	801486-US-NP	8825478	12/987541	Grant
United States Of America	801488-US-CNT	8751233	13/562713	Grant
United States Of America	801488-US-NP	8234494	11/312403	Grant
United States Of America	801488-US-CNT[2]	9455983	14/299874	Grant
United States Of America	801489-US-NP	8913722	13/101909	Grant
United States Of America	801489-US-CNT	9497327	14/569484	Grant
United States Of America	801490-US-NP	8589167	13/105857	Grant
United States Of America	801491-US-NP	8738375	13/103665	Grant
United States Of America	801491-US-CNT	9396725	14/287866	Grant
United States Of America	801491-US-CNT[2]	9984679	15/212908	Grant
United States Of America	801492-US-NP	8856004	13/107001	Grant
United States Of America	801492-US-DIV	8924210	14/289434	Grant
United States Of America	801492-US-CNT	9195650	14/494469	Grant
United States Of America	801495-US-NP[2]	8635201	13/182615	Grant
United States Of America	801495-US-NP[4]	9489457	13/182605	Grant
United States Of America	801496-US-CNT[2]	9461957	14/966574	Grant
United States Of America	801496-US-CNT	9246868	14/339536	Grant
United States Of America	801497-US-CNT	9378738	14/565516	Grant
United States Of America	801497-US-CNT[2]	10152971	15/190325	Grant
United States Of America	801497-US-NP	8914288	13/224027	Grant
United States Of America	801498-US-NP	8607276	13/309954	Grant
China	801499-CN-NP	ZL201310343590.3	201310343590.3	Grant
United States Of America	801499-US-NP	8560310	13/466402	Grant
United States Of America	801500-US-NP	9185470	13/463309	Grant
United States Of America	801501-US-CNT	9203706	14/463821	Grant
United States Of America	801501-US-NP	8825866	13/462668	Grant
United States Of America	801502-US-NP	9269349	13/479945	Grant
United States Of America	801503-US-NP	9495450	13/494148	Grant
United States Of America	801504-US-NP	8768695	13/495509	Grant
United States Of America	801505-US-NP	8924211	13/544383	Grant
United States Of America	801505-US-CNT[3]	9443509	14/557304	Grant
United States Of America	801505-US-CNT[2]	9378734	14/557313	Grant

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United States Of America	801505-US-CNT	9343062	14/557289	Grant
United States Of America	801506-US-DIV	9685153	14/713433	Grant
United States Of America	801506-US-NP	9064493	13/544279	Grant
United States Of America	801507-US-NP	9047856	13/559354	Grant
United States Of America	801508-US-NP	8645122	10/325266	Grant
United States Of America	801511-US-CNT	9424836	14/745630	Grant
United States Of America	801511-US-NP	9093069	13/668662	Grant
United States Of America	801512-US-NP[2]	9143884	13/673688	Grant
United States Of America	801513-US-NP	9065593	13/679471	Grant
United States Of America	801514-US-NP	9032219	13/679657	Grant
United States Of America	801515-US-NP	10282419	13/711814	Grant
United States Of America	801516-US-NP	9679564	13/712131	Grant
United States Of America	801517-US-NP	8761373	13/252193	Grant
United States Of America	801518-US-NP	8762939	12/803742	Grant
United States Of America	801519-US-CNT	9767804	15/237854	Grant
United States Of America	801519-US-NP	9442693	13/910006	Grant
Germany	801523-DE-EPA	6.02014E+11	14169542.9	Grant
United States Of America	801523-US-NP	9258425	13/900163	Grant
United Kingdom	801523-GB-EPA	2806425	14169542.9	Grant
United States Of America	801524-US-NP	9368109	13/907364	Grant
United States Of America	801525-US-NP	9431008	13/904269	Grant
United States Of America	801525-US-CNT	10755702	15/215956	Grant
United States Of America	801526-US-CNT	9330089	14/934668	Grant
United States Of America	801526-US-NP	9214156	13/960755	Grant
United States Of America	801528-US-NP	9484036	14/012081	Grant
Germany	801528-DE-EPA	6.02014E+11	14181677.7	Grant
United States Of America	801529-US-CNT	9905228	15/606477	Grant
United States Of America	801529-US-NP	9666188	14/066079	Grant
United States Of America	801530-US-NP	9690854	14/092033	Grant
United States Of America	801531-US-NP	9997172	14/094025	Grant
Germany	801532-DE-EPT	6.02014E+11	14824209.2	Grant
United States Of America	801532-US-NP	9721561	14/098259	Grant
United States Of America	801533-US-PCT	10402398	15/104477	Grant
United States Of America	801534-US-NP	9338294	14/162014	Grant
United States Of America	801536-US-PCT	10360904	15/309282	Grant
United States Of America	801536-US-CNT	11024298	16/515065	Grant
United States Of America	801537-US-NP	9690771	14/453305	Grant
United States Of America	801537-US-CNT	10339217	15/633030	Grant
United States Of America	801538-US-NP	9971848	14/296295	Grant

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United States Of America	801539-US-NP	9767093	14/308918	Grant
Germany	801540-DE-EPT	6.02015E+11	15729308.5	Grant
United States Of America	801540-US-NP	9691385	14/309207	Grant
United Kingdom	801540-GB-EPT	3138274	15729308.5	Grant
United States Of America	801541-US-PCT	10430156	14/373854	Grant
United States Of America	801542-US-NP	9361899	14/322369	Grant
United States Of America	801543-US-PCT	9990919	15/318158	Grant
United States Of America	801544-US-PCT	10785173	15/321328	Grant
United States Of America	801545-US-PCT	10922322	15/323628	Grant
United States Of America	801546-US-NP	9373330	14/454169	Grant
United States Of America	801547-US-NP	10540347	14/524830	Grant
United States Of America	801548-US-NP	9367526	13/190891	Grant
United States Of America	801549-US-NP	9652799	14/576051	Grant
United States Of America	801550-US-NP	9671999	14/711085	Grant
United States Of America	801551-US-CNT	10789426	16/166453	Grant
United States Of America	801551-US-NP	10108603	14/753169	Grant
United States Of America	801552-US-NP	9959341	14/737379	Grant
United States Of America	801552-US-CNT	10902041	15/968340	Grant
United States Of America	801553-US-NP	9998597	14/792137	Grant
United States Of America	801554-US-NP	9697833	14/835319	Grant
United States Of America	801554-US-CNT	10181325	15/639149	Grant
United States Of America	801555-US-CNT	10902845	16/459335	Grant
United States Of America	801555-US-NP	10366687	14/965637	Grant
United States Of America	801558-US-NP	10878191	15/150631	Grant
United States Of America	801559-US-NP	10671813	15/167028	Grant
United States Of America	801560-US-NP	9973457	13/927658	Grant
United States Of America	801563-US-NP	11024424	15/796658	Grant
United States Of America	801564-US-NP	10917717	16/426402	Grant
United States Of America	801565-US-NP	11074908	16/441691	Grant
United States Of America	801566-US-NP	11043207	16/441777	Grant
United States Of America	801568-US-NP	6963840	09/760279	Grant
United States Of America	801570-US-NP	6990444	09/765127	Grant
United States Of America	801573-US-NP	7395205	09/782434	Grant
United States Of America	801575-US-NP	7103533	09/790352	Grant
United States Of America	801577-US-NP	7295979	09/790296	Grant
United States Of America	801578-US-NP	6993472	09/919235	Grant
United States Of America	801581-US-NP	6961695	10/194044	Grant
United States Of America	801582-US-NP	7136806	10/223502	Grant
United States Of America	801584-US-NP	6999928	09/934042	Grant

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United States Of America	801589-US-NP	6996526	10/040406	Grant
United States Of America	801590-US-NP	7299187	10/361547	Grant
United States Of America	801594-US-NP	7113960	10/226857	Grant
United States Of America	801595-US-NP	7330873	10/226425	Grant
United States Of America	801596-US-NP	7131117	10/234398	Grant
United States Of America	801597-US-NP	7080323	10/263552	Grant
United States Of America	801598-US-NP	7571100	10/309794	Grant
United States Of America	801600-US-NP	7251599	10/315411	Grant
United States Of America	801601-US-NP	7299180	10/315400	Grant
United States Of America	801605-US-NP	8768701	10/657421	Grant
United States Of America	801606-US-NP	7318029	10/660900	Grant
United States Of America	801607-US-NP	7072684	10/260636	Grant
United States Of America	801608-US-NP	8229744	10/649909	Grant
United States Of America	801609-US-NP	7627095	10/701897	Grant
United States Of America	801610-US-NP	7133512	10/697220	Grant
United States Of America	801612-US-NP	7310605	10/721431	Grant
United States Of America	801613-US-NP	7401024	10/725605	Grant
United States Of America	801614-US-NP	7487090	10/736253	Grant
United States Of America	801616-US-NP	7424433	10/734557	Grant
United States Of America	801617-US-NP	7412386	10/997589	Grant
United States Of America	801617-US-CNT	8369492	12/168444	Grant
United States Of America	801618-US-NP	7287221	10/756159	Grant
United States Of America	801619-US-NP	8527277	10/779945	Grant
United States Of America	801621-US-NP	7640159	10/896426	Grant
United States Of America	801623-US-NP	8768969	10/886571	Grant
United States Of America	801624-US-NP	7818175	11/191814	Grant
United States Of America	801636-US-NP	6963831	09/696803	Grant
United States Of America	801639-US-NP	7110949	10/939744	Grant
United States Of America	801640-US-NP	7113903	10/058995	Grant
United States Of America	801642-US-NP	7788103	10/683017	Grant
United States Of America	801643-US-NP	7461000	10/968594	Grant
United States Of America	801644-US-NP	7653546	10/992516	Grant
United States Of America	801645-US-NP	7650284	10/992979	Grant
United States Of America	801646-US-NP	7844465	10/999773	Grant
United States Of America	801649A-US-CIP	8275618	11/926938	Grant
United States Of America	801650-US-NP	8478589	11/029319	Grant
United States Of America	801656-US-CNT	8239198	12/254601	Grant
United States Of America	801656-US-NP	7440894	11/199959	Grant
United States Of America	801657-US-NP	7848928	11/201003	Grant

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United States Of America	801659-US-NP	8526577	11/212939	Grant
United States Of America	801660-US-NP	8635073	11/226646	Grant
United States Of America	801660-US-CNT	9536520	14/134929	Grant
United States Of America	801663-US-NP	8010343	11/304964	Grant
United States Of America	801664-US-NP	8265933	11/316263	Grant
United States Of America	801665-US-NP	7240006	09/670646	Grant
United States Of America	801666-US-NP	7835911	11/324057	Grant
United States Of America	801668-US-NP	8036889	11/362646	Grant
United States Of America	801669-US-NP	7266495	10/661106	Grant
United States Of America	801670-US-CNT	7650168	11/868690	Grant
United States Of America	801670-US-NP	7280849	11/496257	Grant
United States Of America	801671-US-NP	7280963	10/660868	Grant
United States Of America	801672-US-NP	7295982	09/992988	Grant
United States Of America	801673-US-NP	8234120	11/460075	Grant
United States Of America	801675-US-NP	8346555	11/466223	Grant
United States Of America	801676-US-NP	8280734	11/464866	Grant
United States Of America	801677-US-NP	8386248	11/534320	Grant
United States Of America	801680-US-NP	8027839	11/612996	Grant
United States Of America	801681-US-NP	8793132	11/964051	Grant
United States Of America	801682-US-NP	8260618	11/614763	Grant
United States Of America	801683-US-NP	8612230	11/619209	Grant
United States Of America	801684-US-NP	8126506	12/031680	Grant
United States Of America	801684-US-DIV	8494486	13/404763	Grant
United States Of America	801685-US-NP	7283947	09/864120	Grant
United States Of America	801687-US-NP	7860715	11/677220	Grant
United States Of America	801688-US-NP	7801728	11/678830	Grant
United States Of America	801689-US-NP	7822608	11/679274	Grant
United States Of America	801690-US-NP	7809575	11/679279	Grant
United States Of America	801691-US-NP	8938392	11/679297	Grant
United States Of America	801693-US-CNT	7624014	12/206531	Grant
United States Of America	801693-US-NP	7437291	11/956251	Grant
United States Of America	801694-US-PCT	8572189	12/522901	Grant
United States Of America	801696-US-CNT	7558734	12/271912	Grant
United States Of America	801697-US-CNT	8209169	13/279479	Grant
United States Of America	801698-US-CNT[2]	9602672	14/673354	Grant
United States Of America	801698-US-NP	8737975	12/636167	Grant
United States Of America	801698-US-CNT	8995974	14/255492	Grant
United States Of America	801699-US-NP	8060365	12/167879	Grant

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United States Of America	801700-US-NP	7487096	12/034206	Grant
United States Of America	801701-US-CNT	8214217	13/182082	Grant
United States Of America	801703-US-NP	9129599	11/874230	Grant
United States Of America	801707-US-NP	8566098	11/929542	Grant
United States Of America	801708-US-NP	8010364	11/930366	Grant
United States Of America	801710-US-NP	8010369	11/929408	Grant
United States Of America	801710-US-CNT	8244543	13/219655	Grant
United States Of America	801711-US-NP	8589162	12/234176	Grant
United States Of America	801714-US-NP	8843370	11/945048	Grant
United States Of America	801715-US-NP	9386154	12/005050	Grant
United States Of America	801716-US-NP	8849665	12/022819	Grant
United States Of America	801718-US-NP	8949122	12/036886	Grant
United States Of America	801721-US-NP	9118688	12/186483	Grant
United States Of America	801721-US-CNT	9584561	14/834068	Grant
United States Of America	801723-US-NP	8793135	12/197503	Grant
United States Of America	801724-US-CNT	8879713	13/586318	Grant
United States Of America	801724-US-NP	8295468	12/201365	Grant
United States Of America	801725-US-NP	8275619	12/552517	Grant
United States Of America	801726-US-NP	8571849	12/241660	Grant
United States Of America	801727-US-NP	8595804	12/265900	Grant
United States Of America	801728-US-CNT	9484019	13/649680	Grant
United States Of America	801728-US-NP	8296141	12/274025	Grant
United States Of America	801729-US-NP	8374881	12/324388	Grant
United States Of America	801729-US-CNT	9501470	13/761549	Grant
United States Of America	801730-US-CNT	8892441	13/311512	Grant
United States Of America	801730-US-CNT[2]	9880996	14/539221	Grant
United States Of America	801731-US-CNT	10176511	15/206772	Grant
United States Of America	801731-US-CNT[2]	10839447	16/241252	Grant
United States Of America	801731-US-NP	9390420	12/339861	Grant
United States Of America	801734-US-NP	7853451	10/739380	Grant
United States Of America	801735-US-CNT[2]	10114612	15/784612	Grant
United States Of America	801735-US-NP	9208776	12/573448	Grant
United States Of America	801735-US-CNT	9792086	14/960912	Grant
United States Of America	801736-US-NP	8255217	12/580853	Grant
United States Of America	801737-US-CNT	8594282	13/619957	Grant
United States Of America	801738-US-CNT	8509399	13/626973	Grant
United States Of America	801738-US-NP	8358752	12/622163	Grant

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United States Of America	801740-US-NP	8358749	12/623379	Grant
United States Of America	801740-US-CNT	8548127	13/652903	Grant
United States Of America	801741-US-NP	8346549	12/631131	Grant
United States Of America	801741-US-CNT	9431005	13/690671	Grant
United States Of America	801742-US-NP	8589163	12/631111	Grant
United States Of America	801743-US-NP	8831944	12/638649	Grant
United States Of America	801743-US-CNT	9431009	14/479980	Grant
United States Of America	801744-US-NP	7979279	10/747370	Grant
United States Of America	801748-US-NP	9270828	12/828677	Grant
United States Of America	801749-US-NP	8554558	12/834298	Grant
United States Of America	801750-US-NP	8612526	12/840910	Grant
United States Of America	801754-US-NP	8571857	12/908222	Grant
United States Of America	801755-US-NP	9484018	12/952829	Grant
United States Of America	801757-US-NP	9720715	12/963085	Grant
United States Of America	801760-US-NP	8484024	13/034293	Grant
United States Of America	801761-US-CNT	8615261	13/607723	Grant
United States Of America	801761-US-NP	8265664	11/209884	Grant
United States Of America	801762-US-NP	8291069	12/342233	Grant
United States Of America	801762-US-CNT	8769094	13/652184	Grant
United States Of America	801764-US-NP	8321220	11/290859	Grant
United States Of America	801765-US-CNT	8600757	13/690825	Grant
United States Of America	801765-US-NP	8332226	11/030923	Grant
United States Of America	801766-US-NP	9135237	13/181923	Grant
United States Of America	801767-US-CNT	9741338	14/963479	Grant
United States Of America	801767-US-CNT[2]	10403290	15/681644	Grant
United States Of America	801767-US-NP	9214157	13/311852	Grant
United States Of America	801768-US-NP	8767928	13/327256	Grant
United States Of America	801769-US-NP	8767927	13/327097	Grant
Germany	801769-DE-EPT	6.02012E+11	12806310.4	Grant
United Kingdom	801769-GB-EPT	2781079	12806310.4	Grant
United States Of America	801770-US-CNT	9529787	14/536215	Grant
United States Of America	801770-US-NP	8903714	13/332752	Grant
United States Of America	801772-US-NP	8510112	11/469129	Grant
United Kingdom	801773-GB-EPA	2627064	13154546.9	Grant
United States Of America	801773-US-NP	9131049	13/370739	Grant
Germany	801773-DE-EPA	6.02013E+11	13154546.9	Grant
United States Of America	801774-US-NP	8606581	12/968080	Grant
United States Of America	801775-US-NP	8924213	13/544331	Grant

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United States Of America	801776-US-NP	8909526	13/544445	Grant
United States Of America	801776-US-CNT	9564126	14/557321	Grant
United States Of America	801777-US-NP	9208788	13/560217	Grant
United States Of America	801778-US-NP	9781262	13/565216	Grant
United States Of America	801779-US-NP	10157612	13/565234	Grant
United States Of America	801780-US-NP	9400633	13/565256	Grant
United States Of America	801781-US-PCT	9697834	14/416955	Grant
United States Of America	801782-US-NP	9384736	13/590699	Grant
United States Of America	801783-US-NP	9117450	13/712032	Grant
United States Of America	801784-US-NP	9418334	13/707088	Grant
United States Of America	801785-US-NP	9734828	13/712630	Grant
United States Of America	801786-US-NP	9418148	13/731651	Grant
United States Of America	801787-US-NP	9075619	13/742061	Grant
United States Of America	801788-US-NP	8848889	13/747754	Grant
United States Of America	801789-US-NP	9131369	13/748878	Grant
United States Of America	801790-US-NP	9099091	13/746847	Grant
United States Of America	801791-US-NP	9858038	13/756862	Grant
United States Of America	801792-US-NP	9569424	13/773348	Grant
United States Of America	801792-US-CNT	10056095	15/399193	Grant
United States Of America	801793-US-NP	9185214	13/780704	Grant
Germany	801794-DE-EPA	6.02014E+11	14156022.7	Grant
United Kingdom	801794-GB-EPA	2770502	14156022.7	Grant
United States Of America	801794-US-NP	9865266	13/776502	Grant
United States Of America	801796-US-NP	8903712	13/246801	Grant
United States Of America	801796-US-CNT	9251785	14/554494	Grant
United States Of America	801797-US-NP	8914277	13/237510	Grant
United States Of America	801799-US-NP	8924212	11/213458	Grant
United States Of America	801799-US-CNT[2]	9824682	14/886650	Grant
United States Of America	801800-US-NP	10339216	13/952213	Grant
United States Of America	801801-US-NP	9483265	13/956696	Grant
United States Of America	801802-US-NP	9734820	14/080361	Grant
China	801804-CN-PCT	ZL201580003953.6	201580003953.6	Grant
United States Of America	801804-US-NP	9196244	14/149985	Grant
United States Of America	801805-US-NP	9524289	14/188206	Grant
United States Of America	801806-US-NP	10402453	14/551837	Grant
United States Of America	801808-US-NP	9489958	14/447773	Grant
United States Of America	801809-US-NP	9767794	14/456652	Grant
United States Of America	801810-US-NP	10430445	14/485176	Grant

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United States Of America	801811-US-NP	9572103	14/495421	Grant
United States Of America	801812-US-NP	9530400	14/499867	Grant
United States Of America	801813-US-NP	9705633	14/518622	Grant
United States Of America	801813-US-CNT	10530519	15/645132	Grant
United States Of America	801815-US-NP	10783159	14/575462	Grant
United States Of America	801816-US-NP	9846901	14/576023	Grant
United States Of America	801818-US-NP	10073828	14/634654	Grant
United States Of America	801820-US-NP	10847175	14/808349	Grant
United States Of America	801821-US-NP	9761221	14/831028	Grant
United States Of America	801822-US-NP	9728191	14/838010	Grant
United States Of America	801823-US-NP	10824662	14/881469	Grant
United States Of America	801824-US-NP	10789539	15/291325	Grant
United States Of America	801825-US-NP	10026092	15/373879	Grant
United States Of America	801826-US-NP	10885919	15/863310	Grant
United States Of America	801827-US-NP	11256973	15/888812	Grant
China	801831-CN-PCT	ZL200480019301.3	200480019301.3	Grant
Germany	801832-DE-EPT[2]	6.02009E+11	09771309.3	Grant
United States Of America	801832-US-PCT[3]	9002706	13/515281	Grant
Germany	801832-DE-EPT	6.02008E+11	08875076.5	Grant
United States Of America	801832-US-PCT[2]	9792912	13/381076	Grant
United States Of America	801832-US-PCT	8762149	12/998870	Grant
United States Of America	801833-US-PCT	9336780	14/127073	Grant
United States Of America	801834-US-PCT	9043207	13/509606	Grant
United States Of America	801834A-US-CIP	9685159	14/817182	Grant
United States Of America	801835-US-PCT	9754602	13/513530	Grant
United States Of America	801837-US-NP	8301452	12/540258	Grant
United States Of America	801839-US-NP		17/354480	Publication of application
International Procedure	801839-WO-PCT		PCT/US22/034407	Publication of application
United States Of America	801841-US-NP		17/518786	Publication of application
United States Of America	801842-US-NP		17/547322	Publication of application
International Procedure	801842-WO-PCT		PCT/US22/080193	Publication of application
International Procedure	801843-WO-PCT		PCT/US23/012645	Publication of application

Country	Case reference	Grant Number	Filing Number	Status
European Procedure (Patents)	801843-EP-EPA		22305141.8	Publication of application
United States Of America	801844-US-NP		17/674477	Publication of application
United States Of America	801845-US-NP		17/695444	Notice of Allowance
United States Of America	801846-US-NP		17/678405	Publication of application
International Procedure	801846-WO-PCT		PCT/US23/060672	Publication of application
United States Of America	801847-US-NP		17/675023	Publication of application
United States Of America	801863-US-NP[4]	7127402	10/044760	Grant
United States Of America	801864-US-NP	7139717	10/269449	Grant
United States Of America	801864-US-NP[2]	7167832	10/269502	Grant
United States Of America	801866-US-NP		17/666828	Publication of application
United States Of America	801867-US-NP	7401020	10/306950	Grant
International Procedure	801868-WO-PCT		PCT/US23/060989	Filing
United States Of America	801868-US-NP		17/579750	Publication of application
United States Of America	801878-US-NP	7080011	09/920900	Grant
United States Of America	801881-US-NP	7243069	09/910657	Grant
United States Of America	801883-US-NP	10817672	14/503469	Grant
United States Of America	801884-US-NP	10360901	14/561811	Grant
United States Of America	801886-US-NP	8229085	11/888074	Grant
United States Of America	801886-US-CNT	9014348	13/554545	Grant
United States Of America	801887-US-CNT	9720907	14/853053	Grant
United States Of America	801887-US-NP	9135241	12/963126	Grant
United States Of America	801888-US-CNT		17/492116	Publication of application
United States Of America	801888-US-NP[2]	11183300	13/911023	Grant
United States Of America	801889-US-CNT[2]	9530411	14/010265	Grant
United States Of America	801889-US-NP	8290780	12/490443	Grant
United States Of America	801893-US-NP	10515151	14/461589	Grant
United States Of America	801895-US-NP	11227588	16/213194	Grant
United States Of America	801896-US-CNT		17/740977	Notice of Allowance

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United States Of America	801896-US-NP	11363138	17/078652	Grant
European Procedure (Patents)	801897-EP-EPT		21912080.5	Local filing
United States Of America	801897-US-NP	11250855	17/133199	Grant
United States Of America	801897-US-CNT		17/592353	Notice of Allowance
India	801897-IN-PCT		202317040424	Local filing
China	801897-CN-PCT		TBD	Local filing
United States Of America	801898-US-NP	11698953	17/147573	Grant
United States Of America	801899-US-NP		17/178686	Publication of application
European Procedure (Patents)	801899-EP-EPT		22756951.4	Local filing
India	801900-IN-PCT		202317052458	Local filing
United States Of America	801900-US-NP		17/178734	Grant
China	801900-CN-PCT		PCT/US22/016839	Local filing
European Procedure (Patents)	801900-EP-EPT		22756947.2	Local filing
European Procedure (Patents)	801901-EP-EPT		22756942.3	Local filing
India	801901-IN-PCT		202317052455	Local filing
China	801901-CN-PCT		PCT/US22/016832	Local filing
United States Of America	801901-US-NP		17/178785	Notice of Allowance
International Procedure	801902-WO-PCT		PCT/US22/030284	Publication of application
International Procedure	801903-WO-PCT		PCT/US22/030300	Publication of application
United States Of America	801903-US-NP		17/326623	Publication of application
International Procedure	801904-WO-PCT		PCT/US22/034833	Publication of application
United States Of America	801904-US-NP		17/357737	Publication of application
International Procedure	801905-WO-PCT		PCT/US22/034841	Publication of application

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United States Of America	801905-US-NP		17/358983	Publication of application
International Procedure	801907-WO-PCT		PCT/US22/078629	Filing
United States Of America	801907-US-NP		17/554743	Publication of application
United States Of America	801908-US-NP		17/518457	Publication of application
United States Of America	801910-US-NP		17/558319	Publication of application
United States Of America	801911-US-NP		17/518492	Publication of application
United States Of America	801912-US-NP		17/518431	Publication of application
United States Of America	801913-US-NP		17/518443	Publication of application
United States Of America	801914-US-NP		17/518451	Publication of application
United States Of America	801915-US-NP		17/518464	Publication of application
United States Of America	801916-US-NP		17/518479	Publication of application
United States Of America	801917-US-NP		17/518488	Publication of application
India	801919-IN-PCT		202217068559	Local filing
European Procedure (Patents)	801919-EP-EPT		21818663.3	Publication of application
United States Of America	801919-US-NP		17/339027	Publication of application
China	801919-CN-PCT		202180040255.9	Publication of application
European Procedure (Patents)	801920-EP-EPT[3]		22753370.0	Local filing
European Procedure (Patents)	801920-EP-EPT[5]		22753372.6	Local filing
European Procedure (Patents)	801920-EP-EPT[2]		22753374.2	Local filing

Country	Case reference	Grant Number	Filing Number	Status
European Procedure (Patents)	801920-EP-EPT		22753366.8	Local filing
India	801920-IN-PCT		202317052454	Local filing
European Procedure (Patents)	801920-EP-EPT[4]		22753368.4	Local filing
United States Of America	801920-US-NP		17/669534	Publication of application
European Procedure (Patents)	801920-EP-EPT[6]		22753376.7	Local filing
European Procedure (Patents)	801920-EP-EPT[7]		22753375.9	Local filing
China	801920-CN-PCT		TBD	Local filing
United States Of America	801921-US-NP	11705232	17/669099	Grant
China	801922-CN-PCT		TBD	Local filing
European Procedure (Patents)	801922-EP-EPT		22753207.4	Local filing
United States Of America	801922-US-NP		17/666780	Publication of application
India	801922-IN-PCT		202317052457	Local filing
United States Of America	801924-US-NP		17/539271	Publication of application
International Procedure	801924-WO-PCT		PCT/US22/032161	Publication of application
International Procedure	801925-WO-PCT		PCT/US22/032168	Publication of application
United States Of America	801925-US-NP		17/539451	Publication of application
United States Of America	801926-US-NP		17/554817	Publication of application
International Procedure	801926-WO-PCT		PCT/US22/074550	Publication of application
United States Of America	801927-US-NP		17/962040	Publication of application
International Procedure	801927-WO-PCT		PCT/US22/078264	Filing
United States Of America	801928-US-NP	11222103	17/084310	Grant
United States Of America	801929-US-NP	10354677	13/781351	Grant
United States Of America	801930-US-NP	9396442	14/057463	Grant

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United States Of America	801931-US-CNT	10803871	16/200451	Grant
United States Of America	801932-US-PCT	7499861	10/494472	Grant
United States Of America	801934-US-NP	9524291	12/899016	Grant
United States Of America	801937-US-NP	9646001	13/236016	Grant
United States Of America	801940-US-PCT	8447602	10/550967	Grant
United States Of America	801941-US-NP	8843376	11/685350	Grant
United States Of America	801942-US-CNT[5]	9691388	14/597990	Grant
United States Of America	801947-US-CNT[2]	9123337	14/204544	Grant
China	801951-CN-PCT	ZL201480011385.X	201480011385.X	Grant
United States Of America	801958-US-NP	8396713	11/742149	Grant
United States Of America	801962-US-NP		17/937351	Filing
International Procedure	801962-WO-PCT		PCT/US23/031100	Filing
United States Of America	801963-US-NP		17/825576	Filing
International Procedure	801964-WO-PCT		PCT/US23/019024	Filing
United States Of America	801964-US-NP		17/832259	Filing
International Procedure	801965-WO-PCT		PCT/US23/019025	Filing
United States Of America	801965-US-NP		17/832323	Filing
United States Of America	801966-US-NP		17/738541	Filing
International Procedure	801971-WO-PCT		PCT/US23/060980	Filing
United States Of America	801971-US-NP		17/579766	Publication of application
International Procedure	801972-WO-PCT		PCT/US23/060974	Filing
United States Of America	801972-US-NP		17/579786	Publication of application
United Kingdom	801975-GB-EPT	1554864	03808828.2	Grant
Germany	801975-DE-EPT	60342668.9	03808828.2	Grant
China	801975-CN-PCT	ZL200380101518.4	200380101518.4	Grant
China	801976-CN-PCT	ZL201180043215.6	201180043215.6	Grant
International Procedure	801977-WO-PCT		PCT/US23/060986	Filing
United States Of America	801977-US-NP		17/579806	Publication of application
United States Of America	801979-US-NP		17/713837	Filing
International Procedure	801980-WO-PCT		PCT/US23/019009	Filing
United States Of America	801980-US-NP		17/737587	Filing
United States Of America	801990-US-NP		17/666817	Publication of application
United States Of America	801991-US-NP		17/898829	Filing

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International Procedure	801991-WO-PCT		PCT/US23/028901	Filing
United States Of America	802030-US-NP		17/666787	Publication of application
United States Of America	802032-US-NP		17/898962	Filing
International Procedure	802032-WO-PCT		PCT/US23/028902	Filing
United States Of America	802034-US-NP		17/666798	Publication of application
United States Of America	802037-US-NP		17/942289	Filing
United States Of America	802038-US-NP		17/942276	Filing
International Procedure	802038-WO-PCT		PCT/US23/030650	Filing
United States Of America	802266-US-NP		17/897308	Filing
United States Of America	802268-US-NP		17/558277	Publication of application
United States Of America	802277-US-NP		17/669549	Notice of Allowance
United States Of America	802278-US-NP		17/669560	Publication of application
United States Of America	802279-US-NP		17/669567	Publication of application
United States Of America	802280-US-NP		17/669574	Publication of application
United States Of America	802281-US-NP		17/669592	Publication of application
United States Of America	802282-US-NP		17/669599	Publication of application
United States Of America	802283-US-NP		17/666839	Publication of application
United States Of America	802284-US-NP		17/666847	Publication of application
United States Of America	802285-US-NP		17/666854	Publication of application
United States Of America	802286-US-NP		17/974674	Filing
United States Of America	802287-US-NP		17/558336	Publication of application
United States Of America	802379-US-NP		18/075573	Filing