

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT8235942

|   |   |
|---|---|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                          |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                              |
| <b>CONVEYING PARTY DATA</b>   |   |
| <b>Name</b>   | <b>Execution Date</b>                   |
| NUANCE COMMUNICATIONS, INC.   | 09/20/2023                              |
| <b>RECEIVING PARTY DATA</b>   |   |
| <b>Name:</b>  | MICROSOFT TECHNOLOGY LICENSING, LLC     |
| <b>Street Address:</b>  | ONE MICROSOFT WAY                       |
| <b>City:</b>  | REDMOND                                 |
| <b>State/Country:</b>   | WASHINGTON                              |
| <b>Postal Code:</b>   | 98052                                   |
| <b>PROPERTY NUMBERS Total: 1</b>  |   |
| <b>Property Type</b>  | <b>Number</b>                           |
| <b>Patent Number:</b>   | 9619812                                 |
| <b>CORRESPONDENCE DATA</b>  |   |
| <b>Fax Number:</b>  |   |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |   |
| <b>Phone:</b>   | 3143021451                              |
| <b>Email:</b>   | docket@bjfip.com                        |
| <b>Correspondent Name:</b>  | BARTA JONES & FOLEY PLLC (PATENT GROUP) |
| <b>Address Line 1:</b>  | 3308 PRESTON ROAD                       |
| <b>Address Line 2:</b>  | #350-161                                |
| <b>Address Line 4:</b>  | PLANO, TEXAS 75093                      |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 800964-US-NP7                           |
| <b>NAME OF SUBMITTER:</b>   | HOLLI L. TEMPLETON                      |
| <b>SIGNATURE:</b>   | /Holli L. Templeton/                    |
| <b>DATE SIGNED:</b>   | 10/23/2023                              |
| <b>Total Attachments: 55</b>  |   |
| source=800964-US-NP[7]_Nuance to MTL Assignment#page1.tif   |   |
| source=800964-US-NP[7]_Nuance to MTL Assignment#page2.tif   |   |
| source=800964-US-NP[7]_Nuance to MTL Assignment#page3.tif   |   |
| source=800964-US-NP[7]_Nuance to MTL Assignment#page4.tif   |   |
| source=800964-US-NP[7]_Nuance to MTL Assignment#page5.tif   |   |



source=800964-US-NP[7]\_Nuance to MTL Assignment#page54.tif

source=800964-US-NP[7]\_Nuance to MTL Assignment#page55.tif

## 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.

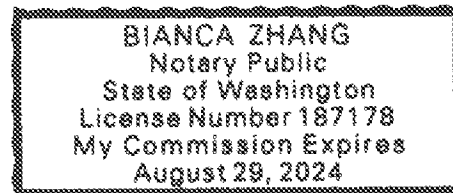
09/20/2023  
[Date]

Signature of  for ASSIGNOR  
Benjamin Orndorff, 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                      |
| United States Of America     | 800574-US-NP[2]  | 9571645      | 14/107622     | Grant                      |
| 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                      |



| Country                      | Case reference   | Grant Number | Filing Number  | Status                     |
|------------------------------|------------------|--------------|----------------|----------------------------|
| 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                      |
| United States Of America     | 800595-US-NP[4]  | 11550552     | 17/070841      | Grant                      |
| 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                      |
| United States Of America     | 800603-US-NP     | 11676598     | 17/314660      | Grant                      |
| United States Of America     | 800604-US-NP     | 11670298     | 17/314718      | Grant                      |
| 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                      |
| United States Of America     | 800610-US-CNT    | 10671448     | 16/133387      | Grant                      |
| United States Of America     | 800613-US-NP     | 11657828     | 16/779145      | Grant                      |
| 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  |
| United States Of America | 800618-US-NP     | 7526735          | 10/736492      | Grant  |
| United States Of America | 800619-US-NP     | 7356472          | 10/733610      | Grant  |
| United States Of America | 800619-US-CNT[3] | 8359203          | 13/237270      | Grant  |
| United States Of America | 800620-US-NP     | 7376565          | 10/736248      | Grant  |
| United States Of America | 800624-US-NP     | 7010099          | 10/798129      | Grant  |
| 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  |
| United States Of America | 800629-US-CNT[2] | 8782088          | 13/451086      | Grant  |
| United States Of America | 800629-US-NP     | 7379946          | 10/840428      | Grant  |
| United States Of America | 800629-US-CNT[3] | 8510340          | 13/475357      | Grant  |
| United States Of America | 800631-US-NP     | 7184521          | 10/865522      | Grant  |
| 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  |
| United States Of America | 800650-US-NP     | 7623632          | 10/926813      | Grant  |
| United States Of America | 800651-US-PCT    | 7689414          | 10/535295      | Grant  |
| United States Of America | 800652-US-CNT[4] | 10515719         | 15/991861      | Grant  |
| United States Of America | 800652-US-CNT[2] | 8965753          | 14/079069      | Grant  |
| United States Of America | 800652-US-CNT[3] | 9996675          | 14/596900      | Grant  |
| United States Of America | 800652-US-CNT    | 8612209          | 13/236835      | Grant  |
| China                    | 800652-CN-PCT    | ZL200380104330.5 | 200380104330.5 | Grant  |
| United States Of America | 800652-US-CNT[5] | 10923219         | 16/716990      | Grant  |
| United States Of America | 800653-US-NP     | 7742911          | 11/095299      | Grant  |
| United States Of America | 800654-US-CNT    | 8244541          | 12/171068      | Grant  |
| United States Of America | 800655-US-CNT    | 8321446          | 12/636716      | Grant  |
| United States Of America | 800656-US-CNT    | 9502024          | 14/191176      | Grant  |
| United States Of America | 800656-US-NP     | 8694316          | 11/255201      | Grant  |
| United States Of America | 800657-US-NP     | 8706501          | 11/007985      | Grant  |
| United States Of America | 800658-US-CNT[2] | 8914294          | 14/246216      | Grant  |
| United States Of America | 800658-US-CNT    | 8694324          | 13/476150      | Grant  |
| 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  |
| United States Of America | 800667-US-CNT    | 8731924      | 13/205057       | Grant  |
| United States Of America | 800668-US-NP     | 7805300      | 11/085382       | Grant  |
| United States Of America | 800668-US-CNT[2] | 9792905      | 14/541694       | Grant  |
| United States Of America | 800668-US-CNT    | 8892438      | 12/881665       | Grant  |
| United States Of America | 800669-US-NP     | 7930182      | 11/376658       | Grant  |
| 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  |
| United States Of America | 800681-US-CNT    | 8917829      | 13/687430       | Grant  |
| United States Of America | 800681-US-CNT[3] | 10027799     | 15/423168       | Grant  |
| United States Of America | 800681-US-CNT[4] | 10609213     | 16/036482       | Grant  |
| United States Of America | 800681-US-NP     | 8345831      | 11/881564       | Grant  |
| 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  |
| United States Of America | 800685-US-PCT[5]  | 8406743      | 12/161027     | Grant  |
| United States Of America | 800685-US-CNT[2]  | 8412162      | 12/485335     | Grant  |
| United States Of America | 800685-US-PCT[8]  | 8478239      | 12/161064     | Grant  |
| United States Of America | 800685-US-PCT[6]  | 8509745      | 12/161035     | Grant  |
| United States Of America | 800685-US-CNT[11] | 8831573      | 13/930210     | Grant  |
| United States Of America | 800685-US-CNT[8]  | 8503988      | 13/751505     | Grant  |
| United States Of America | 800685-US-CNT[7]  | 8977241      | 13/654480     | Grant  |
| United States Of America | 800685-US-CNT     | 8489074      | 12/477971     | Grant  |
| United States Of America | 800685-US-CNT[3]  | 8548438      | 12/485484     | Grant  |
| United States Of America | 800685-US-REI     | RE46952      | 14/534762     | Grant  |
| United States Of America | 800687-US-PCT     | 9100936      | 12/595803     | Grant  |
| United States Of America | 800687-US-CNT     | 9295029      | 14/810031     | Grant  |
| United States Of America | 800688-US-CNT[2]  | 10678503     | 15/911334     | Grant  |
| United States Of America | 800688-US-NP      | 8923491      | 11/866557     | Grant  |
| United States Of America | 800688-US-CNT     | 9910635      | 14/566934     | Grant  |
| United States Of America | 800689-US-NP      | 7515903      | 10/282909     | Grant  |
| United States Of America | 800689-US-CNT     | 8219068      | 12/406695     | Grant  |
| United States Of America | 800690-US-NP      | 7516068      | 12/098521     | Grant  |
| United States Of America | 800693-US-PCT     | 8447606      | 12/449362     | Grant  |
| Germany                  | 800693-DE-EPT     | 6.02008E+11  | 08702559.9    | Grant  |
| United Kingdom           | 800693-GB-EPT     | 2126900      | 08702559.9    | Grant  |
| United States Of America | 800694-US-NP      | 8688452      | 11/937410     | Grant  |
| United States Of America | 800696-US-NP      | 8487984      | 12/019786     | Grant  |
| 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  |

| Country                         | Case reference   | Grant Number | Filing Number   | Status |
|---------------------------------|------------------|--------------|-----------------|--------|
| 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  |



| Country                  | Case reference   | Grant Number | Filing Number | Status |
|--------------------------|------------------|--------------|---------------|--------|
| 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  |

| Country                  | Case reference   | Grant Number | Filing Number | Status |
|--------------------------|------------------|--------------|---------------|--------|
| 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  |

| Country                  | Case reference   | Grant Number     | Filing Number  | Status |
|--------------------------|------------------|------------------|----------------|--------|
| 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  |

| Country                  | Case reference   | Grant Number     | Filing Number    | Status |
|--------------------------|------------------|------------------|------------------|--------|
| 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  |

| Country                  | Case reference   | Grant Number     | Filing Number  | Status |
|--------------------------|------------------|------------------|----------------|--------|
| 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  |

| Country                  | Case reference   | Grant Number     | Filing Number   | Status |
|--------------------------|------------------|------------------|-----------------|--------|
| 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  |

| Country                  | Case reference   | Grant Number     | Filing Number  | Status |
|--------------------------|------------------|------------------|----------------|--------|
| 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  |

| Country                  | Case reference   | Grant Number     | Filing Number  | Status |
|--------------------------|------------------|------------------|----------------|--------|
| 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  |



| Country                  | Case reference   | Grant Number | Filing Number | Status |
|--------------------------|------------------|--------------|---------------|--------|
| 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  |

| Country                  | Case reference   | Grant Number | Filing Number | Status |
|--------------------------|------------------|--------------|---------------|--------|
| 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  |

| Country                  | Case reference   | Grant Number | Filing Number | Status |
|--------------------------|------------------|--------------|---------------|--------|
| 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  |

| Country                  | Case reference   | Grant Number     | Filing Number  | Status |
|--------------------------|------------------|------------------|----------------|--------|
| 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  |

| Country                  | Case reference  | Grant Number | Filing Number | Status |
|--------------------------|-----------------|--------------|---------------|--------|
| 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  |

| Country                  | Case reference | Grant Number | Filing Number | Status |
|--------------------------|----------------|--------------|---------------|--------|
| 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  |

| Country                  | Case reference | Grant Number | Filing Number | Status |
|--------------------------|----------------|--------------|---------------|--------|
| 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  |

| Country                  | Case reference   | Grant Number | Filing Number | Status |
|--------------------------|------------------|--------------|---------------|--------|
| 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  |



| Country                  | Case reference   | Grant Number | Filing Number | Status |
|--------------------------|------------------|--------------|---------------|--------|
| 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  |

| Country                  | Case reference   | Grant Number | Filing Number | Status |
|--------------------------|------------------|--------------|---------------|--------|
| 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  |

| Country                  | Case reference   | Grant Number     | Filing Number  | Status |
|--------------------------|------------------|------------------|----------------|--------|
| 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  |

| Country                  | Case reference   | Grant Number     | Filing Number   | Status                     |
|--------------------------|------------------|------------------|-----------------|----------------------------|
| 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        |

| Country                      | Case reference | Grant Number | Filing Number   | Status                     |
|------------------------------|----------------|--------------|-----------------|----------------------------|
| 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 |

| Country                      | Case reference   | Grant Number | Filing Number   | Status                     |
|------------------------------|------------------|--------------|-----------------|----------------------------|
| 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                      |



| Country                  | Case reference   | Grant Number     | Filing Number   | Status                     |
|--------------------------|------------------|------------------|-----------------|----------------------------|
| 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                     |

| Country                  | Case reference | Grant Number | Filing Number   | Status                     |
|--------------------------|----------------|--------------|-----------------|----------------------------|
| 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                     |