

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT8281942

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	RELEASE OF PATENT SECURITY INTERESTS RECORDED AT REEL 049823, FRAME 0213
CONVEYING PARTY DATA	
Name	Execution Date
DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AGENT	11/14/2023
RECEIVING PARTY DATA	
Name:	MALLINCKRODT INTERNATIONAL FINANCE S.A.
Street Address:	124 BOULEVARD DE LA PETRUSSE
City:	L-2330 LUXEMBOURG
State/Country:	LUXEMBOURG
Name:	MALLINCKRODT CB LLC
Street Address:	675 MCDONNELL BOULEVARD
City:	HAZELWOOD
State/Country:	MISSOURI
Postal Code:	93042
Name:	MALLINCKRODT FINANCE GMBH
Street Address:	VICTOR VON BRUNS-STRASSE 19
City:	8212 NEUHAUSEN AM RHEINFALL
State/Country:	SWITZERLAND
Name:	MALLINCKRODT US HOLDINGS LLC (F/K/A MALLINCKRODT US HOLDINGS INC.)
Street Address:	675 MCDONNELL BOULEVARD
City:	HAZELWOOD
State/Country:	MISSOURI
Postal Code:	63042
Name:	MALLINCKRODT CARRIBEAN, INC.
Street Address:	675 MCDONNELL BOULEVARD
City:	HAZELWOOD
State/Country:	MISSOURI
Postal Code:	63042
Name:	MALLINCKRODT US POOL LLC
Street Address:	675 MCDONNELL BOULEVARD
City:	HAZELWOOD
State/Country:	MISSOURI

PATENT

Postal Code:	63042
Name:	MNK 2011 LLC (F/K/A MALLINCKRODT INC.)
Street Address:	675 MCDONNELL BOULEVARD
City:	HAZELWOOD
State/Country:	MISSOURI
Postal Code:	63042
Name:	LUDLOW LLC (F/K/A LUDLOW CORPORATION)
Street Address:	675 MCDONNELL BOULEVARD
City:	HAZELWOOD
State/Country:	MISSOURI
Postal Code:	63042
Name:	CNS THERAPEUTICS, INC.
Street Address:	675 MCDONNELL BOULEVARD
City:	HAZELWOOD
State/Country:	MISSOURI
Postal Code:	63042
Name:	MALLINCKRODT ENTERPRISES HOLDINGS LLC (F/K/A MALLINCKRODT ENTERPRISES HOLDINGS, INC.)
Street Address:	675 MCDONNELL BOULEVARD
City:	HAZELWOOD
State/Country:	MISSOURI
Postal Code:	63042
Name:	MALLINCKRODT ENTERPRISES LLC
Street Address:	675 MCDONNELL BOULEVARD
City:	HAZELWOOD
State/Country:	MISSOURI
Postal Code:	63042
Name:	MALLINCKRODT LLC
Street Address:	385 MARSHALL AVENUE
City:	WEBSTER GROVES
State/Country:	MISSOURI
Postal Code:	63119
Name:	LAFAYETTE PHARMACEUTICALS LLC
Street Address:	675 MCDONNELL BOULEVARD
City:	HAZELWOOD
State/Country:	MISSOURI
Postal Code:	63042
Name:	LIEBEL-FLARSHEIM COMPANY LLC
Street Address:	675 MCDONNELL BOULEVARD

City:	HAZELWOOD
State/Country:	MISSOURI
Postal Code:	63042
Name:	MALLINCKRODT BRAND PHARMACEUTICALS LLC (F/K/A MALLINCKRODT BRAND PHARMACEUTICALS, INC.)
Street Address:	675 MCDONNELL BOULEVARD
City:	HAZELWOOD
State/Country:	MISSOURI
Postal Code:	63042
Name:	MALLINCKRODT VETERINARY, INC.
Street Address:	675 MCDONNELL BOULEVARD
City:	HAZELWOOD
State/Country:	MISSOURI
Postal Code:	63042
Name:	MALLINCKRODT US HOLDINGS LLC
Street Address:	675 MCDONNELL BOULEVARD
City:	HAZELWOOD
State/Country:	MISSOURI
Postal Code:	63042
Name:	IMC EXPLORATION COMPANY
Street Address:	675 MCDONNELL BOULEVARD
City:	HAZELWOOD
State/Country:	MISSOURI
Postal Code:	63042
Name:	MEH, INC.
Street Address:	675 MCDONNELL BOULEVARD
City:	HAZELWOOD
State/Country:	MISSOURI
Postal Code:	63042
Name:	MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY (F/K/A MALLINCKRODT HOSPITAL PRODUCTS IP LIMITED)
Street Address:	COLLEGE BUSINESS & TECHNOLOGY PARK CRUISERATH, BLANCHARDSTOWN
City:	DUBLIN 15
State/Country:	IRELAND
Name:	MALLINCKRODT ARD IP UNLIMITED COMPANY (F/K/A MALLINCKRODT ARD IP LIMITED)
Street Address:	COLLEGE BUSINESS & TECHNOLOGY PARK CRUISERATH, BLANCHARDSTOWN
City:	DUBLIN 15
State/Country:	IRELAND

Name:	OCERA THERAPEUTICS LLC (F/K/A OCERA THERAPEUTICS, INC.)
Street Address:	675 MCDONNELL BOULEVARD
City:	HAZELWOOD
State/Country:	MISSOURI
Postal Code:	63042
Name:	SPECGX LLC
Street Address:	385 MARSHALL AVENUE
City:	WEBSTER GROVES
State/Country:	MISSOURI
Postal Code:	63119
Name:	STRATATECH CORPORATION
Street Address:	510 CHARMANY DR. NO. 169
City:	MADISON
State/Country:	WISCONSIN
Postal Code:	53719
Name:	SUCAMPO PHARMA AMERICAS LLC
Street Address:	675 MCDONNELL BOULEVARD
City:	HAZELWOOD
State/Country:	MISSOURI
Postal Code:	63042
Name:	VTESSE LLC (F/K/A VTESSE INC.)
Street Address:	675 MCDONNELL BOULEVARD
City:	HAZELWOOD
State/Country:	MISSOURI
Postal Code:	63042
Name:	MALLINCKRODT PHARMACEUTICALS IRELAND LIMITED
Street Address:	COLLEGE BUSINESS & TECHNOLOGY PARK CRUISERATH, BLANCHARDSTOWN
City:	DUBLIN 15
State/Country:	IRELAND
Name:	MALLINCKRODT PHARMA IP TRADING UNLIMITED COMPANY (F/K/A MALLINCKRODT PHARMA IP TRADING D.A.C.)
Street Address:	COLLEGE BUSINESS & TECHNOLOGY PARK CRUISERATH, BLANCHARDSTOWN
City:	DUBLIN 15
State/Country:	IRELAND
Name:	INFACARE PHARMACEUTICAL CORPORATION
Street Address:	675 MCDONNELL BOULEVARD
City:	HAZELWOOD
State/Country:	MISSOURI

Postal Code:	63042
Name:	ST SHARED SERVICES LLC
Street Address:	675 MCDONNELL BOULEVARD
City:	HAZELWOOD
State/Country:	MISSOURI
Postal Code:	63042
Name:	THERAKOS, INC.
Street Address:	675 MCDONNELL BOULEVARD
City:	HAZELWOOD
State/Country:	MISSOURI
Postal Code:	63042
Name:	IKARIA THERAPEUTICS LLC
Street Address:	53 FRONTAGE ROAD, THIRD FLOOR
City:	HAMPTON
State/Country:	NEW JERSEY
Postal Code:	08827
Name:	INO THERAPEUTICS LLC
Street Address:	675 MCDONNELL BOULEVARD
City:	HAZELWOOD
State/Country:	MISSOURI
Postal Code:	63042

PROPERTY NUMBERS Total: 4

Property Type	Number
Patent Number:	10004787
Application Number:	15633017
Application Number:	15456004
Application Number:	15987188

CORRESPONDENCE DATA

Fax Number:

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.

Phone: 2136207848

Email: iprecordations@whitecase.com

Correspondent Name: JUSTINE LU/WHITE & CASE LLP

Address Line 1: 555 SOUTH FLOWER STREET, SUITE 2700

Address Line 4: LOS ANGELES, CALIFORNIA 90071

ATTORNEY DOCKET NUMBER: 1111779-3049-S216

NAME OF SUBMITTER: JUSTINE LU

SIGNATURE:	/Justine Lu/
DATE SIGNED:	11/16/2023
Total Attachments: 36 source=MNK - Patents Release (2014 CA) (Executed)#page1.tif source=MNK - Patents Release (2014 CA) (Executed)#page2.tif source=MNK - Patents Release (2014 CA) (Executed)#page3.tif source=MNK - Patents Release (2014 CA) (Executed)#page4.tif source=MNK - Patents Release (2014 CA) (Executed)#page5.tif source=MNK - Patents Release (2014 CA) (Executed)#page6.tif source=MNK - Patents Release (2014 CA) (Executed)#page7.tif source=MNK - Patents Release (2014 CA) (Executed)#page8.tif source=MNK - Patents Release (2014 CA) (Executed)#page9.tif source=MNK - Patents Release (2014 CA) (Executed)#page10.tif source=MNK - Patents Release (2014 CA) (Executed)#page11.tif source=MNK - Patents Release (2014 CA) (Executed)#page12.tif source=MNK - Patents Release (2014 CA) (Executed)#page13.tif source=MNK - Patents Release (2014 CA) (Executed)#page14.tif source=MNK - Patents Release (2014 CA) (Executed)#page15.tif source=MNK - Patents Release (2014 CA) (Executed)#page16.tif source=MNK - Patents Release (2014 CA) (Executed)#page17.tif source=MNK - Patents Release (2014 CA) (Executed)#page18.tif source=MNK - Patents Release (2014 CA) (Executed)#page19.tif source=MNK - Patents Release (2014 CA) (Executed)#page20.tif source=MNK - Patents Release (2014 CA) (Executed)#page21.tif source=MNK - Patents Release (2014 CA) (Executed)#page22.tif source=MNK - Patents Release (2014 CA) (Executed)#page23.tif source=MNK - Patents Release (2014 CA) (Executed)#page24.tif source=MNK - Patents Release (2014 CA) (Executed)#page25.tif source=MNK - Patents Release (2014 CA) (Executed)#page26.tif source=MNK - Patents Release (2014 CA) (Executed)#page27.tif source=MNK - Patents Release (2014 CA) (Executed)#page28.tif source=MNK - Patents Release (2014 CA) (Executed)#page29.tif source=MNK - Patents Release (2014 CA) (Executed)#page30.tif source=MNK - Patents Release (2014 CA) (Executed)#page31.tif source=MNK - Patents Release (2014 CA) (Executed)#page32.tif source=MNK - Patents Release (2014 CA) (Executed)#page33.tif source=MNK - Patents Release (2014 CA) (Executed)#page34.tif source=MNK - Patents Release (2014 CA) (Executed)#page35.tif source=MNK - Patents Release (2014 CA) (Executed)#page36.tif	

RELEASE OF PATENT SECURITY INTERESTS, dated as of November 14, 2023 (this “Release”), by Deutsche Bank AG New York Branch, as collateral agent under the Credit Agreement (as defined below) (in such capacity, the “Collateral Agent”) in favor of **MALLINCKRODT INTERNATIONAL FINANCE S.A.**, a Luxembourg private limited company with an address at 124 boulevard de la Petrusse, L-2330 Luxembourg, Luxembourg, **MALLINCKRODT CB LLC**, a Delaware limited liability company with an address at 675 McDonnell Boulevard, Hazelwood, Missouri 63042, **MALLINCKRODT FINANCE GMBH**, a Swiss limited liability company with an address at Victor von Bruns-Strasse 19, 8212 Neuhausen am Rheinfall, Switzerland, **MALLINCKRODT US HOLDINGS LLC** (f/k/a MALLINCKRODT US HOLDINGS INC.) a Delaware limited liability company with an address at 675 McDonnell Boulevard, Hazelwood, Missouri 63042, **MALLINCKRODT CARRIBEAN, INC.** a Delaware corporation with an address at 675 McDonnell Boulevard, Hazelwood, Missouri 63042, **MALLINCKRODT US POOL LLC**, a Nevada limited liability company with an address at 675 McDonnell Boulevard, Hazelwood, Missouri 63042, **MNK 2011 LLC** (f/k/a MALLINCKRODT INC.), a Delaware limited liability company with an address at 675 McDonnell Boulevard, Hazelwood, Missouri 63042, **LUDLOW LLC** (f/k/a LUDLOW CORPORATION) a Massachusetts limited liability company with an address at 675 McDonnell Boulevard, Hazelwood, Missouri 63042, **CNS THERAPEUTICS, INC.** a Delaware corporation with an address at 675 McDonnell Boulevard, Hazelwood, Missouri 63042, **MALLINCKRODT ENTERPRISES HOLDINGS LLC** (f/k/a MALLINCKRODT ENTERPRISES HOLDINGS, INC.), a California limited liability company with an address at 675 McDonnell Boulevard, Hazelwood, Missouri 63042, **MALLINCKRODT ENTERPRISES LLC**, a Delaware limited liability company with an address at 675 McDonnell Boulevard, Hazelwood, Missouri 63042, **MALLINCKRODT LLC**, a Delaware limited liability company with an address at 385 Marshall Avenue, Webster Groves, Missouri 63119, **LAFAYETTE PHARMACEUTICALS LLC**, a Delaware limited liability company with an address at 675 McDonnell Boulevard, Hazelwood, Missouri 63042, **LIEBEL-FLARSHEIM COMPANY LLC**, a Delaware limited liability company with an address at 675 McDonnell Boulevard, Hazelwood, Missouri 63042, **MALLINCKRODT BRAND PHARMACEUTICALS LLC** (f/k/a MALLINCKRODT BRAND PHARMACEUTICALS, INC.), a Delaware limited liability company with an address at 675 McDonnell Boulevard, Hazelwood, Missouri 63042, **MALLINCKRODT VETERINARY, INC.**, a Delaware corporation with an address at 675 McDonnell Boulevard, Hazelwood, Missouri 63042, **MALLINCKRODT US HOLDINGS LLC**, a Delaware limited liability company with an address at 675 McDonnell Boulevard, Hazelwood, Missouri 63042, **IMC EXPLORATION COMPANY**, a Maryland corporation with an address at 675 McDonnell Boulevard, Hazelwood, Missouri 63042, **MEH, INC.**, a Nevada corporation with an address at 675 McDonnell Boulevard, Hazelwood, Missouri 63042, **MALLINCKRODT HOSPITAL PRODUCTS IP UNLIMITED COMPANY** (f/k/a MALLINCKRODT HOSPITAL PRODUCTS IP LIMITED), an Ireland private unlimited company with an address at College Business & Technology Park Cruiserath, Blanchardstown, Dublin 15, Ireland, **MALLINCKRODT ARD IP UNLIMITED COMPANY** (f/k/a MALLINCKRODT ARD IP LIMITED, an Ireland private unlimited company with an address at College Business & Technology Park Cruiserath, Blanchardstown, Dublin 15, Ireland, **OCERA THERAPEUTICS LLC** (f/k/a OCERA THERAPEUTICS, INC.), a Delaware limited liability company with an address at 675 McDonnell Boulevard, Hazelwood, Missouri 63042, **SPECGX LLC**, a Delaware limited liability company with an address at 385 Marshall Avenue,

Webster Groves, Missouri 63119, **STRATATECH CORPORATION**, a Delaware corporation with an address at 510 Charmany Dr. No. 169, Madison, Wisconsin 53719, **SUCAMPO PHARMA AMERICAS LLC**, a Delaware limited liability company with an address at 675 McDonnell Boulevard, Hazelwood, Missouri 63042, **VTESSE LLC** (f/k/a VTESSE INC.), a Delaware limited liability company with an address at 675 McDonnell Boulevard, Hazelwood, Missouri 63042, **MALLINCKRODT PHARMACEUTICALS IRELAND LIMITED**, an Ireland private limited company with an address at College Business & Technology Park Cruiserath, Blanchardstown, Dublin 15, Ireland, **MALLINCKRODT PHARMA IP TRADING UNLIMITED COMPANY** (f/k/a MALLINCKRODT PHARMA IP TRADING D.A.C.), an Ireland unlimited company with an address at College Business & Technology Park Cruiserath, Blanchardstown, Dublin 15, Ireland, **INFACARE PHARMACEUTICAL CORPORATION**, a Delaware corporation with an address at 675 McDonnell Boulevard, Hazelwood, Missouri 63042, **ST SHARED SERVICES LLC**, a Delaware limited liability company with an address at 675 McDonnell Boulevard, Hazelwood, **THERAKOS, INC.**, a Florida corporation with an address at 675 McDonnell Boulevard, Hazelwood, Missouri 63042, **IKARIA THERAPEUTICS LLC**, a Delaware limited liability company with an address at 53 Frontage Road, Third Floor, Hampton, New Jersey 08827-9001 and **INO THERAPEUTICS LLC**, a Delaware limited liability company with an address at 675 McDonnell Boulevard, Hazelwood, Missouri 63042 (each a “Pledgor”, collectively the “Pledgors”). Capitalized terms used herein and not otherwise defined shall have the meanings assigned to such terms in the U.S. Collateral Agreement, referred to below.

A. Reference is made to (i) the U.S. Collateral Agreement, dated as of March 19, 2014 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “U.S. Collateral Agreement”), among MALLINCKRODT INTERNATIONAL FINANCE S.A., a public limited liability company (société anonyme) incorporated under the laws of the Grand Duchy of Luxembourg, having its registered office at 124, boulevard de la Pétrusse, L-2330 Luxembourg, and registered with the Luxembourg Trade and Companies Register (R.C.S Luxembourg) under number B 172.865 (the “Lux Borrower”), MALLINCKRODT CB LLC, a Delaware limited liability company (the “Co-Borrower”, and together with the Lux Borrower, the “Borrowers”), Mallinckrodt Finance GmbH (the “Swiss Finco”), each other Subsidiary Loan Party listed on the signature pages thereof and each other Subsidiary Loan Party that becomes a party thereto after the Closing Date (as defined therein) and DEUTSCHE BANK AG NEW YORK BRANCH, as collateral agent (together with its successors and assigns in such capacity, the “Collateral Agent”) for the Secured Parties (as defined therein) and (ii) the Notices of Grant of Security Interest in Patents, dated as of March 19, 2014, April 16, 2015, September 25, 2015, June 15, 2016, September 16, 2016, August 17, 2017, September 25, 2017, December 22, 2017, July 19, 2019, December 9, 2019, April 21, 2020 and August 25, 2023 among the Pledgors party thereto and the Collateral Agent (such documents set forth in clauses (i) and (ii) the “Security Documents”).

B. Pursuant to the Security Documents, the Pledgors granted to the Collateral Agent, for the benefit of the Secured Parties, a security interest in all right, title and interest of the Pledgors in, to and under, among other things, the Patents of the Pledgors set forth on Schedule I hereto (collectively, the “Patent Collateral”), which security interest was recorded with the United States Patent and Trademark Office on March 19, 2014 at Reel/Frame 032480/0001, on April 19,

2015 at Reel/Frame 035443/0241 and Reel/Frame 035454/0768, on September 25, 2015 at Reel/Frame 036662/0053, on July 1, 2016 at Reel/Frame 039237/0147, on September 16, 2016 at Reel/Frame 040059/0222, on August 18, 2017 at Reel/Frame 043596/0080, Reel/Frame 043601/0025, Reel/Frame 043596/0107, Reel/Frame 043596/0124, Reel/Frame 043596/0259 and Reel/Frame 043596/0277, on October 10, 2017 at Reel/Frame 044173/0574, on December 22, 2017 at Reel/Frame 044949/0634, on July 22, 2019 at Reel/Frame 049821/0425, Reel/Frame 049822/0674, Reel/Frame 049822/0829, Reel/Frame 049823/0213, Reel/Frame 049823/0220, Reel/Frame 049823/0233, Reel/Frame 049823/0301 and Reel/Frame 049823/0308, on December 9, 2019 at Reel/Frame 051231/0961, on April 21, 2020 at Reel/Frame 052456/0158, and on August 25, 2023 at Reel/Frame 064709/0055.

Accordingly, for good and valuable consideration, the receipt and sufficiency of the which are hereby acknowledged, in accordance with the U.S. Collateral Agreement, the Collateral Agent does hereby release, relinquish and discharge any and all security interests it has against the Patent Collateral. If and to the extent that the Collateral Agent has acquired any right, title or interest in and to the Patent Collateral, the Collateral Agent, without representation or warranty of any kind, hereby re-transfers, re-conveys and re-assigns such right, title or interest to the applicable Pledgor. The Collateral Agent acknowledges and agrees that the Issuers or their designees shall, on behalf of the Collateral Agent (at the Issuers' sole cost and expenses), make filings, including of this Release, with the United States Patent and Trademark Office and other necessary filings to evidence the release and termination of the Collateral Agent's security interests in the Patent Collateral. The Collateral Agent agrees to take all further actions, and provide to each Pledgor and its successors, assigns or other legal representatives, all such cooperation and assistance (including, without limitation, the execution and delivery of any and all documents or other instruments), reasonably requested by the Pledgors, at the Pledgors' sole cost and expense, to more fully and effectively effectuate the purposes of this Release.

THIS RELEASE SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK AND SHALL BE BINDING UPON THE COLLATERAL AGENT'S REPRESENTATIVES, SUCCESSORS, ASSIGNS AND TRANSFEREES.

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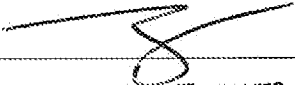
IN WITNESS WHEREOF, the Collateral Agent has caused this Release to be duly executed as of the day and year first above written.

DEUTSCHE BANK AG NEW YORK BRANCH,
as Collateral Agent

By: _____

Name:

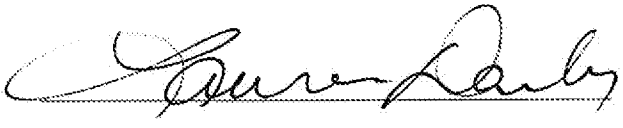
Title:


Philip Tancorra
Director

By: _____

Name:

Title:


Lauren Danbury
Vice President

[SIGNATURE PAGE TO RELEASE OF PATENT SECURITY INTERESTS]

Schedule I

Patents

Reel/Frame 032480/0001

Property Type	Number
Patent Number:	5456670
Patent Number:	5519984
Application Number:	13215864
Application Number:	13233227
Application Number:	13241368
Application Number:	13260575
Application Number:	13260578
Application Number:	13263087
Application Number:	13272904
Application Number:	13294546
Application Number:	13303723
Application Number:	13319761
Application Number:	13319771
Application Number:	13353888
Application Number:	13353923
Application Number:	13369407
Application Number:	13383243
Application Number:	13465223
Application Number:	13473571
Application Number:	13473578
Application Number:	13473584
Application Number:	13473586
Application Number:	13491676
Application Number:	13520202
Application Number:	13549066
Application Number:	13563822
Application Number:	13599777
Application Number:	13599819
Application Number:	13626473
Application Number:	13646848

Application Number:	13657711
Application Number:	13664457
Application Number:	13670506
Application Number:	13676219
Application Number:	13689694
Application Number:	13697149
Application Number:	13705205
Application Number:	13722500
Application Number:	13742147
Application Number:	13742154
Application Number:	13749805
Application Number:	13762431
Application Number:	13772572
Application Number:	13787042
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Application Number:	13814088
Application Number:	13855971
Application Number:	13865244
Application Number:	13865286
Application Number:	13869822
Application Number:	13876040
Application Number:	13878252
Application Number:	13890815
Application Number:	13925680
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Application Number:	13978725
Application Number:	13988800
Application Number:	13995810
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Application Number:	14010571
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Application Number:	14092375
Application Number:	14092483
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Application Number:	14109052
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Application Number:	14131764
Application Number:	14131921
Application Number:	14132500
Application Number:	14149027
Application Number:	14149616
Application Number:	14173190
Application Number:	14232305
Application Number:	61529694
Application Number:	61771203
Application Number:	61779902
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Application Number:	61780272
Application Number:	61791387
Application Number:	61792951
Application Number:	61794848
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Application Number:	61882039
Application Number:	61886695
Application Number:	61898634
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Application Number:	61905312

Application Number:	61926027
Application Number:	61926523
Application Number:	61928853
Application Number:	90009455
Application Number:	90009536
Application Number:	90007967
Application Number:	90009653
Patent Number:	5529787
Patent Number:	5619545
Patent Number:	5648536
Patent Number:	5655741
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Patent Number:	5665074
Patent Number:	5681286
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Patent Number:	6254572
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Patent Number:	7321038
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Patent Number:	7343724
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Patent Number:	7452324

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Patent Number:	7725168
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Patent Number:	7728145
Patent Number:	7750187
Patent Number:	7753835
Patent Number:	7771389
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Patent Number:	7794429
Patent Number:	7812322
Patent Number:	7824374
Patent Number:	7834184
Patent Number:	7838677
Patent Number:	7838844

Patent Number:	7854726
Patent Number:	7859473
Patent Number:	7898416
Patent Number:	7901667
Patent Number:	7918009
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Patent Number:	7935821
Patent Number:	7963936
Patent Number:	7975922
Patent Number:	7985858
Patent Number:	7988677
Patent Number:	7991451
Patent Number:	7998133
Patent Number:	7999105
Patent Number:	8003967
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Patent Number:	8022181
Patent Number:	8035517
Patent Number:	8038182
Patent Number:	8067596
Patent Number:	8067597
Patent Number:	8080661
Patent Number:	8101757
Patent Number:	8115002
Patent Number:	8118780
Patent Number:	8119103
Patent Number:	8133198
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Patent Number:	8141598
Patent Number:	8148528
Patent Number:	8163912
Patent Number:	8168790
Patent Number:	8170172

Patent Number:	81 80434
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Patent Number:	8193347
Patent Number:	8217175
Patent Number:	8227483
Patent Number:	8227608
Patent Number:	8227611
Patent Number:	8232396
Patent Number:	8232397
Patent Number:	8232398
Patent Number:	8232400
Patent Number:	8242277
Patent Number:	8246930
Patent Number:	8251071
Patent Number:	8252808
Patent Number:	8252928
Patent Number:	8257683
Patent Number:	8262644
Patent Number:	8269006
Patent Number:	8269201
Patent Number:	8273887
Patent Number:	8273888
Patent Number:	8277416
Patent Number:	8282595
Patent Number:	8283472
Patent Number:	8288744
Patent Number:	8293906
Patent Number:	8293907
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Patent Number:	8303933
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Patent Number:	8308698
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Patent Number:	8314237
Patent Number:	8317099

Patent Number:	8318113
Patent Number:	8342331
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Patent Number:	8367827
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Patent Number:	8420857
Patent Number:	8421044
Patent Number:	8431074
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Patent Number:	8431705
Patent Number:	8431909
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Patent Number:	8439863
Patent Number:	8445682
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Patent Number:	8446280
Patent Number:	8454560
Patent Number:	8461337
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Patent Number:	8486008
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Patent Number:	8492547
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Patent Number:	8513632
Patent Number:	8519133
Patent Number:	8523813
Patent Number:	8524006
Patent Number:	8524904
Patent Number:	8539644
Patent Number:	8562563
Patent Number:	8563724
Patent Number:	8563725
Patent Number:	8563727
Patent Number:	8563907
Patent Number:	8575100
Patent Number:	8597246
Patent Number:	8597681
Patent Number:	8614224
Patent Number:	8623888
Patent Number:	8624030
Patent Number:	8624031
Patent Number:	8627957
Patent Number:	8628514
Patent Number:	8629301
Patent Number:	8630694
Patent Number:	8633461
Patent Number:	8657787
Patent Number:	8658433
Patent Number:	8658631
Patent Number:	8663164
Patent Number:	8663166
Patent Number:	6344178
Patent Number:	D488864
Patent Number:	D547447

Patent Number:	D550838
Patent Number:	D572818
Patent Number:	D589157
Patent Number:	D602164
Patent Number:	D607117
Patent Number:	D617910
Patent Number:	D657886
Patent Number:	D683466
Patent Number:	6648860
Patent Number:	7491191
Application Number:	10588674
Application Number:	10780269
Application Number:	10811258
Application Number:	11073910
Application Number:	11073915
Application Number:	11458463
Application Number:	11551804
Application Number:	11618023
Application Number:	11618180
Application Number:	11677926
Application Number:	11677946
Application Number:	11877564
Application Number:	11909270
Application Number:	11915606
Application Number:	12097553
Application Number:	12159025
Application Number:	12179129
Application Number:	12247601
Application Number:	12282420
Application Number:	12296142
Application Number:	12299944
Application Number:	12374051
Application Number:	12403190
Application Number:	12529723
Application Number:	12546898

Application Number:	12552457
Application Number:	12553144
Application Number:	12560614
Application Number:	12615534
Application Number:	12668900
Application Number:	12676968
Application Number:	12679362
Application Number:	12681125
Application Number:	12701342
Application Number:	12738846
Application Number:	12742928
Application Number:	12742930
Application Number:	12746192
Application Number:	12757098
Application Number:	12773324
Application Number:	12810149
Application Number:	12811104
Application Number:	12921785
Application Number:	12921787
Application Number:	12921839
Application Number:	12973962
Application Number:	12975407
Application Number:	12996989
Application Number:	13014876
Application Number:	13014896
Application Number:	13015223
Application Number:	13015480
Application Number:	13015498
Application Number:	13063810
Application Number:	13080499
Application Number:	13102028
Application Number:	13103203
Application Number:	13103234
Application Number:	13103266
Application Number:	13120537

Application Number:	13139544
Application Number:	13146299
Application Number:	13196921
Application Number:	13201632

Reel/Frame 052456/0158

Property Type	Number
Application Number:	16724786
Application Number:	16704530
Application Number:	16748319
Application Number:	16677435
Application Number:	16696142
Application Number:	16779912
Application Number:	16785983
Application Number:	16785978
Application Number:	62948513
Application Number:	16778696
Application Number:	16732861
Application Number:	62965330
Application Number:	16779796

Reel/Frame 049821/0425

Property Type	Number
Patent Number:	10286041
Patent Number:	10232018
Patent Number:	7608616
Patent Number:	8796416
Application Number:	15967641
Application Number:	16251363
Application Number:	62748811
Application Number:	62794369
Application Number:	62789016

Reel/Frame 049822/0674

Property Type	Number
Patent Number:	9987238
Patent Number:	D823472
Patent Number:	7945301
Patent Number:	8703089
Patent Number:	9567226
Patent Number:	7238469
Patent Number:	8778413
Patent Number:	8282966
Patent Number:	8293284
Patent Number:	8431163
Patent Number:	8795741
Patent Number:	8846112
Patent Number:	8790715
Patent Number:	9278111
Patent Number:	7114510
Patent Number:	8573209
Patent Number:	8291904
Patent Number:	9265911
Patent Number:	8776795
Patent Number:	8776794
Patent Number:	9408993
Patent Number:	9295802
Patent Number:	8573210
Patent Number:	9770570
Patent Number:	10052426
Patent Number:	10188822
Patent Number:	9616193
Patent Number:	D730525
Patent Number:	D729937
Patent Number:	9629358
Patent Number:	9381212
Patent Number:	9279794
Patent Number:	8757148

Patent Number:	9895199
Patent Number:	7523752
Patent Number:	8091549
Patent Number:	8517015
Patent Number:	8397721
Patent Number:	8408206
Patent Number:	9351994
Patent Number:	8720440
Patent Number:	8607792
Patent Number:	8616204
Patent Number:	10099029
Patent Number:	8893717
Patent Number:	8944051
Patent Number:	9108016
Patent Number:	9795756
Patent Number:	9032959
Patent Number:	8770199
Patent Number:	9550039
Patent Number:	D701963
Patent Number:	D729936
Patent Number:	6818763
Patent Number:	7777028
Patent Number:	81 78664
Patent Number:	7375216
Patent Number:	7960371
Patent Number:	8530458
Patent Number:	8835416
Patent Number:	9107927
Patent Number:	9517239
Patent Number:	9902745
Patent Number:	8735574
Patent Number:	9181285
Patent Number:	9688705
Patent Number:	9399012
Patent Number:	10273255

Patent Number:	6219584
Patent Number:	6495366
Patent Number:	7534616
Patent Number:	8153083
Patent Number:	8722422
Patent Number:	6793643
Patent Number:	7186230
Patent Number:	9238097
Patent Number:	7850634
Patent Number:	7914477
Patent Number:	7503889
Patent Number:	7211037
Patent Number:	7479123
Patent Number:	7465285
Patent Number:	7476209
Patent Number:	8057785
Patent Number:	8481008
Patent Number:	9169461
Application Number:	15430677
Application Number:	15683290
Application Number:	15483138
Application Number:	15491835
Application Number:	16077276
Application Number:	16112297
Application Number:	62774687
Application Number:	16217998
Application Number:	16217969
Application Number:	15854643
Application Number:	16217981
Application Number:	16253834
Application Number:	16253871
Application Number:	16058402
Application Number:	15899063
Application Number:	16156453
Application Number:	15790300

Application Number:	15979154
Application Number:	16165679
Application Number:	16171096
Application Number:	16171089
Application Number:	15974881
Application Number:	15981332
Application Number:	15570996
Application Number:	16125190
Application Number:	16300362
Application Number:	15460334
Application Number:	15446110
Application Number:	15459060
Application Number:	13683444
Application Number:	13800287
Application Number:	16042031
Application Number:	14209096
Application Number:	14218067
Application Number:	14313767
Application Number:	14325993
Application Number:	14026807
Application Number:	15493578
Application Number:	14750429
Application Number:	14744298
Application Number:	13827240
Application Number:	15867900
Application Number:	15603654
Application Number:	13691677
Application Number:	16298603
Application Number:	15261968
Application Number:	15737163

Reel/Frame 049822/0829

Property Type	Number
Application Number:	15457674

Application Number:	16030575
Application Number:	15761676

Reel/Frame 049823/0213

Property Type	Number
Patent Number:	10004787
Application Number:	15633017
Application Number:	15456004
Application Number:	15987188

Reel/Frame 049823/0220

Property Type	Number
Application Number:	15751442
Application Number:	16037655
Application Number:	15133087
Application Number:	15750009
Application Number:	15349910

Reel/Frame 049823/0233

Property Type	Number
Application Number:	15714137
Application Number:	15568587
Application Number:	16002199
Application Number:	16002190
Application Number:	15977415
Application Number:	15464865
Application Number:	16002285
Application Number:	16201645
Application Number:	16219253
Application Number:	62736020
Application Number:	15710990
Application Number:	16254074

Reel/Frame 049823/0301

Property Type	Number
Application Number:	16036619
Application Number:	16122598

Reel/Frame 049823/0308

Property Type	Number
Application Number:	16134028

Reel/Frame 039237/0147

Property Type	Number
Patent Number:	9029799
Patent Number:	9127009
Patent Number:	9181237
Patent Number:	9193737
Patent Number:	9217009
Application Number:	14187939
Application Number:	14192971
Application Number:	14207260
Application Number:	14208297
Application Number:	14208324
Application Number:	14208350
Application Number:	14211307
Application Number:	14266873
Application Number:	14301658
Application Number:	14316149
Application Number:	14316271
Application Number:	14316415
Application Number:	14316443
Application Number:	14336357
Application Number:	14348522

Application Number:	14357644
Application Number:	14358061
Application Number:	14479129
Application Number:	14488048
Application Number:	14490357
Application Number:	14496376
Application Number:	14504750
Application Number:	14513994
Application Number:	14524196
Application Number:	14529368
Application Number:	14569309
Application Number:	14574733
Application Number:	14627879
Application Number:	14630960
Application Number:	14659819
Application Number:	14716269
Application Number:	14722541
Application Number:	14725714
Application Number:	14736752
Application Number:	14788908
Application Number:	14796069
Application Number:	14814580
Application Number:	14834536
Application Number:	14921188
Application Number:	62117299
Application Number:	62148549
Application Number:	62166911
Application Number:	62190975
Application Number:	62221244

Reel/Frame 051231/0961

Property Type	Number
Patent Number:	10363251
Patent Number:	10213385

Patent Number:	9949949
Patent Number:	10173964
Patent Number:	10258602
Application Number:	16369690
Application Number:	62852097
Application Number:	62857677
Application Number:	62873080
Application Number:	62873084
Application Number:	62794369
Application Number:	62789016
Application Number:	62823297
Application Number:	16365263
Application Number:	16378361
Application Number:	16411944
Application Number:	62849064
Application Number:	16502828
Application Number:	16504881
Application Number:	16505295
Application Number:	16537103
Application Number:	16537955
Application Number:	16598786
Application Number:	16665353
Application Number:	62928152
Application Number:	16669151
Application Number:	16677435
Application Number:	62774687
Application Number:	14750429
Application Number:	16300362
Application Number:	16408678
Application Number:	15817847
Application Number:	15751442
Application Number:	62845569
Application Number:	62916159
Application Number:	16611193
Application Number:	16529323

Application Number:	16549151
Application Number:	16574699
Application Number:	16600874
Application Number:	16481405
Application Number:	62907308
Application Number:	62910887
Application Number:	16150048
Application Number:	16372899
Application Number:	16430664

Reel/Frame 064709/0055

Property Type	Number
Application Number:	17/863778
Application Number:	17/865707
Application Number:	17/976502
Application Number:	17/976606
Application Number:	17/976603
Application Number:	17/942396
Application Number:	17/984893
Application Number:	18/084113
Application Number:	17/685072
Application Number:	18/082174
Application Number:	17/946243
Application Number:	17/983051
Application Number:	18/103202
Application Number:	18/117917
Application Number:	17/926978
Application Number:	17/694245
Application Number:	17/787836
Application Number:	18/014951
Application Number:	17/854460
Application Number:	17/827270

Reel/Frame 035443/0241

APPLICATION NUMBER: 62068357

Reel/Frame 035454/0768

Property Type	Number
Patent Number:	5670127
Patent Number:	5692495
Patent Number:	5699790
Patent Number:	5732693
Patent Number:	5732694
Patent Number:	5752504
Patent Number:	5918596
Patent Number:	6089229
Patent Number:	6109260
Patent Number:	6125846
Patent Number:	6164276
Patent Number:	6581592
Patent Number:	7114510
Patent Number:	7238469
Patent Number:	7523752
Patent Number:	7574246
Patent Number:	7945301
Patent Number:	8091549
Patent Number:	8282966
Patent Number:	8291904
Patent Number:	8293284
Patent Number:	8397721
Patent Number:	8408206
Patent Number:	8431163
Patent Number:	8517015
Patent Number:	8573209
Patent Number:	8573210
Patent Number:	8607792
Patent Number:	8616204
Patent Number:	8703089

Patent Number:	8720440
Patent Number:	8757148
Patent Number:	8770199
Patent Number:	8776794
Patent Number:	8776795
Patent Number:	8778413
Patent Number:	8790715
Patent Number:	8795741
Patent Number:	8846112
Patent Number:	8893717
Patent Number:	8944051
Patent Number:	D701963
Application Number:	13420852
Application Number:	13537146
Application Number:	13671057
Application Number:	13683444
Application Number:	13778596
Application Number:	13800287
Application Number:	13827240
Application Number:	14026807
Application Number:	14065962
Application Number:	14095621
Application Number:	14096548
Application Number:	14096910
Application Number:	14193323
Application Number:	14209096
Application Number:	14211919
Application Number:	14218067
Application Number:	14299772
Application Number:	14301692
Application Number:	14307664
Application Number:	14312003
Application Number:	14313767
Application Number:	14325993
Application Number:	14328150
Application Number:	14394433

Application Number:	14402786
Application Number:	14451057
Application Number:	14454373
Application Number:	14482704
Application Number:	14551186
Application Number:	14556364
Application Number:	14593085
Application Number:	14626409
Application Number:	14629742
Application Number:	29464499
Application Number:	29467025
Application Number:	29467028
Application Number:	29471765
Application Number:	61952553
Application Number:	61973544
Application Number:	61987852
Application Number:	61991028
Application Number:	61991032
Application Number:	61991083
Application Number:	61996798
Application Number:	62008218
Application Number:	62014817
Application Number:	62015088
Application Number:	62017004
Application Number:	62058135
Application Number:	62065046
Application Number:	62115931

Reel/Frame 040059/0222

Property Type	Number
Patent Number:	6846675
Patent Number:	6974697
Patent Number:	7541188
Patent Number:	7407805
Patent Number:	7955790

Patent Number:	7501238
Patent Number:	7988959
Patent Number:	8808685
Patent Number:	7498167
Patent Number:	7915042
Patent Number:	7807148
Patent Number:	7462448
Patent Number:	7888496
Patent Number:	7674291
Patent Number:	8092531
Patent Number:	8790636
Patent Number:	9216202
Patent Number:	9163076
Patent Number:	9295543
Patent Number:	8580314
Patent Number:	8685463
Patent Number:	8992997
Application Number:	14335534
Application Number:	12271455
Application Number:	14669095
Application Number:	12784699
Application Number:	14208439

Reel/Frame 044173/0574

Property Type	Number
Patent Number:	6818763
Patent Number:	7375216
Patent Number:	7777028
Patent Number:	8178664
Patent Number:	7960371
Patent Number:	8530458
Patent Number:	8835416
Patent Number:	9107927
Patent Number:	9517239
Patent Number:	8735574

Patent Number:	9181285
Application Number:	15343967
Patent Number:	9688705
Application Number:	15603654
Application Number:	13691677

Reel/Frame 043596/0080

Property Type	Number
Application Number:	15141530
Application Number:	15383969
Application Number:	14313903

Reel/Frame 043601/0025

Property Type	Number
Application Number:	14672447
Application Number:	14674327
Application Number:	14700594
Application Number:	14709298
Application Number:	14709308
Application Number:	14709316
Application Number:	14712419
Application Number:	13615777
Application Number:	14706449
Application Number:	14744298
Application Number:	14750429
Application Number:	14863274
Application Number:	14886556
Application Number:	14920392
Application Number:	15001020
Application Number:	15008048
Application Number:	15010999
Application Number:	15066659
Application Number:	15066672
Application Number:	15094467
Application Number:	15167048

Application Number:	15170130
Application Number:	15204176
Application Number:	15256053
Application Number:	15260118
Application Number:	15261968
Application Number:	15277253
Application Number:	15281176
Application Number:	15281512
Application Number:	15284611
Application Number:	15320635
Application Number:	15341142
Application Number:	15341262
Application Number:	15341584
Application Number:	15343314
Application Number:	15412342
Application Number:	15412348
Application Number:	15418837
Application Number:	15420689
Application Number:	29578294
Application Number:	29578295
Application Number:	62316663
Application Number:	62331117
Application Number:	29544067
Application Number:	29544072
Application Number:	14827523
PCT Number:	US1530217

Reel/Frame 043596/0107

Property Type	Number
Application Number:	15184056
Application Number:	62352962
Application Number:	62353283

Reel/Frame 043596/0124

Property Type	Number
Application Number:	14188582
Application Number:	15046243
Application Number:	15065635
Application Number:	15147621
Application Number:	15162072
Application Number:	15164483
Application Number:	15202670
Application Number:	15235312
Application Number:	15255979
Application Number:	15385812
Application Number:	15417541
Application Number:	15420386
Application Number:	62292463
Application Number:	62315952
Application Number:	62418950
Application Number:	62431524
Application Number:	15054739

Reel/Frame 043596/0259

Property Type	Number
Application Number:	14804669
Application Number:	11877396
Application Number:	11539276
Application Number:	12510890
Application Number:	12757432
Application Number:	13471746
Application Number:	12097027
Application Number:	10635847
Application Number:	12138922
Application Number:	29339045
Application Number:	13139781
Application Number:	12326835
Application Number:	12935235

Application Number:	29394931
Application Number:	11157707
Application Number:	13321954
Application Number:	12643890
Application Number:	13322754
Application Number:	13520632
Application Number:	12935114
Application Number:	12988353
Application Number:	13002797
Application Number:	13147969
Application Number:	13995267
Application Number:	14055712
Application Number:	14131012
Application Number:	14178086
Application Number:	14773212
Application Number:	14877354
Application Number:	15233297
Application Number:	15331942
Application Number:	15400628
Application Number:	15422114
Application Number:	14178093
Application Number:	12636718

Reel/Frame 043596/0277

Property Type	Number
Application Number:	15375755
Application Number:	15377316
Application Number:	15377323
Application Number:	62451379

Reel/Frame 044949/0634

Property Type	Number
Patent Number:	8173706
Patent Number:	8492439

Patent Number:	8785498
Patent Number:	9034925
Patent Number:	9604909
Patent Number:	6144488
Patent Number:	6010154
Patent Number:	9260379
Patent Number:	6087284
Patent Number:	8946473
Patent Number:	5749255
Patent Number:	8921521
Patent Number:	9493505
Patent Number:	7169899
Patent Number:	7550431
Patent Number:	8557765
Patent Number:	8008440
Patent Number:	8188216
Patent Number:	9409945
Patent Number:	9181298
Patent Number:	9018419
Patent Number:	8497242
Patent Number:	7491695
Patent Number:	8450268
Patent Number:	8349887
Patent Number:	RE42624
Patent Number:	7476653
Patent Number:	8334256
Patent Number:	RE42013
Patent Number:	7521420
Patent Number:	8129561
Patent Number:	7452862
Patent Number:	8022252
Patent Number:	8440851
Patent Number:	9371297
Patent Number:	8088733
Patent Number:	9133235

Reel/Frame 036662/0053

Property Type	Number
Patent Number:	5984887
Patent Number:	6491656
Patent Number:	5921951
Patent Number:	5951509
Patent Number:	6069687
Patent Number:	6228995
Patent Number:	5985914
Patent Number:	6219584
Patent Number:	8153083
Patent Number:	7534616
Patent Number:	6495366
Patent Number:	6793643
Patent Number:	7186230
Patent Number:	7211037
Patent Number:	7479123
Patent Number:	7914477
Patent Number:	7503889
Patent Number:	7850634
Patent Number:	7465285
Patent Number:	7476209
Patent Number:	8057785
Patent Number:	8722422
Patent Number:	8481008
Application Number:	12781451
Application Number:	11579319
Application Number:	12795308
Application Number:	13738039