

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT8282081

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	RELEASE OF PATENT SECURITY INTERESTS RECORDED AT REEL 043596, FRAME 0080

**CONVEYING PARTY DATA**

Name	Execution Date
DEUTSCHE BANK AG NEW YORK BRANCH, AS COLLATERAL AGENT	11/14/2023

**RECEIVING PARTY DATA**

<b>Name:</b>	MALLINCKRODT INTERNATIONAL FINANCE S.A.
<b>Street Address:</b>	124 BOULEVARD DE LA PETRUSSE
<b>City:</b>	L-2330 LUXEMBOURG
<b>State/Country:</b>	LUXEMBOURG
<b>Name:</b>	MALLINCKRODT CB LLC
<b>Street Address:</b>	675 MCDONNELL BOULEVARD
<b>City:</b>	HAZELWOOD
<b>State/Country:</b>	MISSOURI
<b>Postal Code:</b>	93042
<b>Name:</b>	MALLINCKRODT FINANCE GMBH
<b>Street Address:</b>	VICTOR VON BRUNS-STRASSE 19
<b>City:</b>	8212 NEUHAUSEN AM RHEINFALL
<b>State/Country:</b>	SWITZERLAND
<b>Name:</b>	MALLINCKRODT US HOLDINGS LLC (F/K/A MALLINCKRODT US HOLDINGS INC.)
<b>Street Address:</b>	675 MCDONNELL BOULEVARD
<b>City:</b>	HAZELWOOD
<b>State/Country:</b>	MISSOURI
<b>Postal Code:</b>	63042
<b>Name:</b>	MALLINCKRODT CARRIBEAN, INC.
<b>Street Address:</b>	675 MCDONNELL BOULEVARD
<b>City:</b>	HAZELWOOD
<b>State/Country:</b>	MISSOURI
<b>Postal Code:</b>	63042
<b>Name:</b>	MALLINCKRODT US POOL LLC
<b>Street Address:</b>	675 MCDONNELL BOULEVARD
<b>City:</b>	HAZELWOOD
<b>State/Country:</b>	MISSOURI

PATENT

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

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

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

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

**PROPERTY NUMBERS Total: 3**

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

**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

<b>ATTORNEY DOCKET NUMBER:</b>	1111779-3049-S216
<b>NAME OF SUBMITTER:</b>	JUSTINE LU
<b>SIGNATURE:</b>	/Justine Lu/

**DATE SIGNED:**

11/16/2023

**Total Attachments: 36**

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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 Rheinfeld, 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.

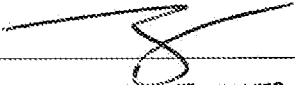
Accordingly, for good and valuable consideration, the receipt and sufficiency of the which are hereby acknowledged, in accordance with the U.S. Collateral Agreement, the Collateral Agent does hereby release, relinquish and discharge any and all security interests it has against the Patent Collateral. 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.

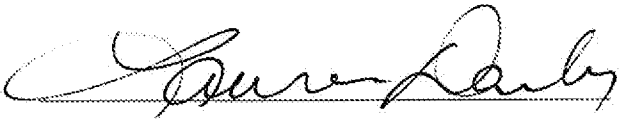
THIS RELEASE SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK AND SHALL BE BINDING UPON THE COLLATERAL AGENT'S REPRESENTATIVES, SUCCESSORS, ASSIGNS AND TRANSFEREES.

[The remainder of this page intentionally left blank]

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: Philip Tancorra  
Title: Director

By:   
Name: Lauren Danbury  
Title: 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
Application Number:	13794141
Application Number:	13800248
Application Number:	13802935
Application Number:	13808707
Application Number:	13808721
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
Application Number:	13939357
Application Number:	13978725
Application Number:	13988800
Application Number:	13995810
Application Number:	14003893
Application Number:	14010571
Application Number:	14019828

Application Number:	14045009
Application Number:	14092375
Application Number:	14092483
Application Number:	14092559
Application Number:	14109052
Application Number:	14115363
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
Application Number:	61780000
Application Number:	61780272
Application Number:	61791387
Application Number:	61792951
Application Number:	61794848
Application Number:	61798525
Application Number:	61799341
Application Number:	61840103
Application Number:	61858189
Application Number:	61871690
Application Number:	61871956
Application Number:	61878446
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<b>Application Number:</b>	13139544
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**Reel/Frame 052456/0158**

<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16724786
<b>Application Number:</b>	16704530
<b>Application Number:</b>	16748319
<b>Application Number:</b>	16677435
<b>Application Number:</b>	16696142
<b>Application Number:</b>	16779912
<b>Application Number:</b>	16785983
<b>Application Number:</b>	16785978
<b>Application Number:</b>	62948513
<b>Application Number:</b>	16778696
<b>Application Number:</b>	16732861
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<b>Application Number:</b>	16779796

**Reel/Frame 049821/0425**

<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	10286041
<b>Patent Number:</b>	10232018
<b>Patent Number:</b>	7608616
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Reel/Frame 049822/0674

Property Type	Number
Patent Number:	9987238
Patent Number:	D823472
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Patent Number:	9616193
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Patent Number:	8944051
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Application Number:	16298603
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Application Number:	15737163

Reel/Frame 049822/0829

Property Type	Number
Application Number:	15457674

<b>Application Number:</b>	16030575
<b>Application Number:</b>	15761676

**Reel/Frame 049823/0213**

<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	10004787
<b>Application Number:</b>	15633017
<b>Application Number:</b>	15456004
<b>Application Number:</b>	15987188

**Reel/Frame 049823/0220**

<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15751442
<b>Application Number:</b>	16037655
<b>Application Number:</b>	15133087
<b>Application Number:</b>	15750009
<b>Application Number:</b>	15349910

**Reel/Frame 049823/0233**

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

**Reel/Frame 049823/0301**

<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16036619
<b>Application Number:</b>	16122598

**Reel/Frame 049823/0308**

<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16134028

**Reel/Frame 039237/0147**

<b>Property Type</b>	<b>Number</b>
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<b>Patent Number:</b>	9127009
<b>Patent Number:</b>	9181237
<b>Patent Number:</b>	9193737
<b>Patent Number:</b>	9217009
<b>Application Number:</b>	14187939
<b>Application Number:</b>	14192971
<b>Application Number:</b>	14207260
<b>Application Number:</b>	14208297
<b>Application Number:</b>	14208324
<b>Application Number:</b>	14208350
<b>Application Number:</b>	14211307
<b>Application Number:</b>	14266873
<b>Application Number:</b>	14301658
<b>Application Number:</b>	14316149
<b>Application Number:</b>	14316271
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<b>Application Number:</b>	62190975
<b>Application Number:</b>	62221244

Reel/Frame 051231/0961

<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	10363251
<b>Patent Number:</b>	10213385

Patent Number:	9949949
Patent Number:	<b>10173964</b>
Patent Number:	10258602
Application Number:	16369690
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Application Number:	16598786
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<b>Application Number:</b>	62910887
<b>Application Number:</b>	16150048
<b>Application Number:</b>	16372899
<b>Application Number:</b>	16430664

**Reel/Frame 064709/0055**

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

**Reel/Frame 035443/0241**



APPLICATION NUMBER: 62068357

**Reel/Frame 035454/0768**

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

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

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

**Reel/Frame 040059/0222**

<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	6846675
<b>Patent Number:</b>	6974697
<b>Patent Number:</b>	7541188
<b>Patent Number:</b>	7407805
<b>Patent Number:</b>	7955790

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

**Reel/Frame 044173/0574**

<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	6818763
<b>Patent Number:</b>	7375216
<b>Patent Number:</b>	7777028
<b>Patent Number:</b>	8178664
<b>Patent Number:</b>	7960371
<b>Patent Number:</b>	8530458
<b>Patent Number:</b>	8835416
<b>Patent Number:</b>	9107927
<b>Patent Number:</b>	9517239
<b>Patent Number:</b>	8735574

<b>Patent Number:</b>	9181285
<b>Application Number:</b>	15343967
<b>Patent Number:</b>	9688705
<b>Application Number:</b>	15603654
<b>Application Number:</b>	13691677

**Reel/Frame 043596/0080**

<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15141530
<b>Application Number:</b>	15383969
<b>Application Number:</b>	14313903

**Reel/Frame 043601/0025**

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

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

**Reel/Frame 043596/0107**

<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15184056
<b>Application Number:</b>	62352962
<b>Application Number:</b>	62353283

**Reel/Frame 043596/0124**

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

**Reel/Frame 043596/0259**

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

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

**Reel/Frame 043596/0277**

<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15375755
<b>Application Number:</b>	15377316
<b>Application Number:</b>	15377323
<b>Application Number:</b>	62451379

**Reel/Frame 044949/0634**

<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	8173706
<b>Patent Number:</b>	8492439



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

**Reel/Frame 036662/0053**

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