

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

EPAS ID: PAT6567025

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
CTI (ASSIGNMENT FOR THE BENEFIT OF CREDITORS), LLC	04/08/2020

**RECEIVING PARTY DATA**

<b>Name:</b>	MORNINGSIDE VENTURE INVESTMENTS LIMITED
<b>Street Address:</b>	1188 CENTRE STREET
<b>City:</b>	NEWTON CENTRE
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02459

**PROPERTY NUMBERS Total: 77**

Property Type	Number
Patent Number:	7780981
Patent Number:	8252321
Patent Number:	8372040
Patent Number:	8440221
Patent Number:	8673346
Patent Number:	8741336
Patent Number:	9555226
Patent Number:	9555227
Patent Number:	9669199
Patent Number:	10105487
Patent Number:	10213586
Patent Number:	10232156
Patent Number:	10258738
Patent Number:	10258778
Patent Number:	10716764
Application Number:	11083178
Application Number:	11162517
Application Number:	12835693
Application Number:	14156944
Application Number:	14162156

PATENT

<b>Property Type</b>	<b>Number</b>
Application Number:	15385665
Application Number:	16115415
Application Number:	16165720
Application Number:	16284933
Application Number:	16330111
Application Number:	16462971
Application Number:	16473981
Application Number:	16474083
Application Number:	16484477
Application Number:	60594981
Application Number:	60609418
Application Number:	60720076
Application Number:	60863607
Application Number:	60863608
Application Number:	60863613
Application Number:	60863618
Application Number:	60863640
Application Number:	60863654
Application Number:	60863666
Application Number:	60863671
Application Number:	60863677
Application Number:	60863686
Application Number:	61755307
Application Number:	61756339
Application Number:	61921187
Application Number:	62046730
Application Number:	62108959
Application Number:	62132436
Application Number:	62262745
Application Number:	62263516
Application Number:	62401043
Application Number:	62430121
Application Number:	62443421
Application Number:	62443526
Application Number:	62443549
Application Number:	62458325
Application Number:	62580884
Application Number:	62580895

Property Type	Number
Application Number:	62616340
Application Number:	62677494
Application Number:	62732952
Application Number:	62736899
Application Number:	62768768
PCT Number:	IB2004002947
PCT Number:	US2005032672
PCT Number:	US2006020248
PCT Number:	US2007023006
PCT Number:	US2014012465
PCT Number:	US2014012491
PCT Number:	US2016015469
PCT Number:	US2016022117
PCT Number:	US2017054093
PCT Number:	US2017064765
PCT Number:	US2018012568
PCT Number:	US2018012646
PCT Number:	US2018018047
PCT Number:	US2019034432

**CORRESPONDENCE DATA**

**Fax Number:** (650)212-7562  
*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:** 6502121700  
**Email:** jnguyen-perez@shayglenn.com, info@shayglenn.com  
**Correspondent Name:** SHAY GLENN LLP  
**Address Line 1:** 2929 CAMPUS DR., SUITE 225  
**Address Line 4:** SAN MATEO, CALIFORNIA 94403

<b>ATTORNEY DOCKET NUMBER:</b>	13164-001
<b>NAME OF SUBMITTER:</b>	KATHLEEN KELLEHER
<b>SIGNATURE:</b>	/Kathleen Kelleher, Reg. No. 62,230/
<b>DATE SIGNED:</b>	02/23/2021

**Total Attachments: 18**  
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INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT

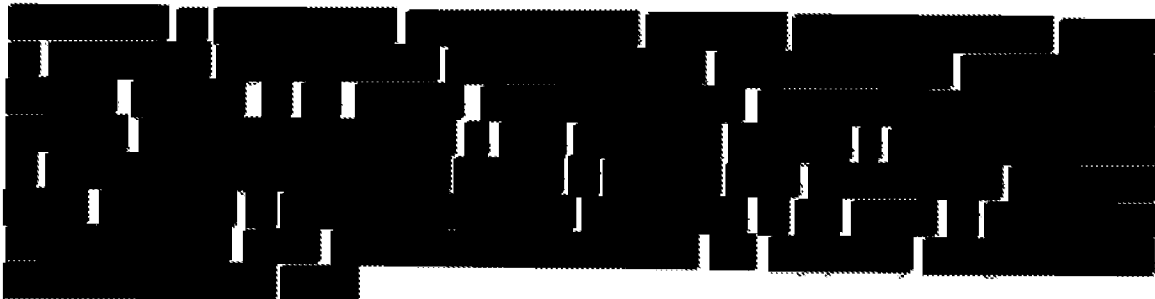
This Intellectual Property Assignment Agreement (the "Assignment") is hereby entered into on April 8, 2020 (the "Effective Date"), by, between, and among CTI (assignment for the benefit of creditors), LLC, a California limited liability company, in its sole and limited capacity as assignee for the benefit of creditors of Chrono Therapeutics, Inc. ("Assignor"), and Morningside Venture Investments Limited ("Assignee").

I. Assignor desires to transfer and assign to Assignee, and Assignee desires to accept the transfer and assignment of all of Assignor's right, title and interest in, to and under, all of the following (hereafter collectively referred to as "Intellectual Property");

(i) the entire worldwide right, title and interest of Assignor in and to each and all patents in the United States and in all foreign countries including, without limitation corresponding Patent Cooperation Treaty patent applications and corresponding National patent applications and all inventions, improvements and discoveries disclosed in said patents and applications, including but not limited to those set forth in Schedule A hereto, and in and to all substitutions, divisions, continuations, continuations-in-part, reexaminations, extensions, renewals and reissues (as applicable) thereof, including without limitation of generality, all rights of priority resulting from the filing of patent applications relating to any of the foregoing as well as any and all choses in action and any and all claims and demands, both at law and in equity, that Assignor has or may have for damages or profits accrued or to accrue on account of the infringement of any of said patents, patent applications, inventions, improvements and discoveries (or any provisional rights therein), the same to be held and enjoyed by Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor if the assignment set forth in this Assignment had not been made;

(ii) the full and complete right to file patent applications in the name of the Assignor, at the Assignee's, or its designee's election, on the aforesaid inventions, improvements, discoveries and applications in all countries of the world;

(iii) the entire right, title and interest of Assignor in and to any patent which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same;



[REDACTED]

[REDACTED]

2. Assignor, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, does hereby sell, convey, transfer and assign to Assignee, and Assignee hereby accepts the sale, conveyance, transfer and assignment of all right, title and interest of Assignor in, to and under the Intellectual Property, including all worldwide right, title and interest of Assignor in, to and under the Intellectual Property, together with the right of Assignor to claim priority in all countries in accordance with international law, any and all rights of Assignor corresponding to said Intellectual Property in countries throughout the world, and all of Assignor's rights to sue for past, present or future infringement of said Intellectual Property worldwide together with all claims for damages by reason of past, present or future infringement of said Intellectual Property, and the right to sue for and collect the same for Assignee's own use and enjoyment, all to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor had this Assignment not been made. Assignor hereby authorizes and requests the United States Patent and Trademarks Office to issue said Patents and Trademarks in accordance with this Assignment.

3. Assignor represents and warrants that Assignor has made no other agreements establishing any other encumbrances, liens, security interests, or third-party interests on or to the Intellectual Property, and that Assignor has full and complete authority to make this Assignment.

4. This Assignment may be executed in multiple counterparts, each of which shall be deemed an original hereof, and all of which shall constitute a single agreement effective as of the date hereof. Any delivery of an executed counterpart of this Assignment by facsimile or electronic mail shall be as effective as delivery of a manually executed counterpart of this Assignment.

5. This Assignment shall be binding upon and shall inure to the benefit of the parties and their respective successors and assigns.

6. This Assignment shall be governed by and construed in accordance with federal law, to the extent applicable, and, where state law is implicated, the internal laws of the State of California, without giving effect to any principles of conflicts of law.

[Signature page follows]

IN WITNESS WHEREOF, Assignor and Assignee executed and delivered this Assignment by their duly authorized representatives as of the Effective Date.

ASSIGNOR:

ASSIGNEE:

CTI (assignment for the benefit of

MORNINGSIDE VENTURE  
INVESTMENTS LIMITED

creditors), LLC, solely as assignee for the benefit of creditors of Chrono Therapeutics, Inc.

By: WVH

By: \_\_\_\_\_

Its: Manager

Its: \_\_\_\_\_

ASSIGNOR:

CH (assignment for the benefit of

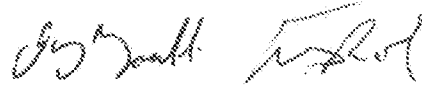
creditors), LLC, solely as assignee for the benefit of creditors of Chrono Therapeutics, Inc.

By: .....

Its: .....

ASSIGNEE:

For and on behalf of  
MORNINGSIDE VENTURE  
INVESTMENTS LIMITED



By: Jill Marie Franklin  
Frances Anne Elizabeth Richard .....

Its: Authorized Signatures .....



SCHEDULE A

*Patents*

(See attached)

Schedule A  
US Patents and Patent Applications

ATTORNEY DOCKET NO.	COUNTRY	PAPER TYPE	STATUS	TITLE	APPLICATION NO.	APPLICATION DATE	PUBLICATION NUMBER	PUBLICATION DATE	PATENT NUMBER	PATENT DATE
13164-701.400	United States of America	Utility - DIV	Issued	TRANSDERMAL DRUG DELIVERY METHOD AND SYSTEM	13/892,006	May 10, 2013	US-2013-093862-A1	Dec 19, 2013	8,675,346	Mar 18, 2015
13164-701.150	United States of America	Utility - NSPEY	Issued	TRANSFERAL DRUG DELIVERY METHOD AND SYSTEM	10/751,389	Sep 13, 2008	US-2007-023870-A1	Oct 27, 2007	8,640,121	May 04, 2013
13164-701.200	United States of America	Utility - ORG	Abandoned	PROPHYLACTIC AND THERAPEUTIC TREATMENT OF TOPICAL AND TRANSFERAL DRUG-INDUCED SKIN REACTIONS	11/083,178	Mar 17, 2005	US-2007-0042026-A1	Feb 23, 2007		
13164-702.100	United States of America	Pro - ORG	Expired	BIOSYNCHRONOUS TRANSFERAL DRUG DELIVERY	80/609,438	Sep 15, 2004				
13164-702.200	United States of America	Utility - ORG	Abandoned	BIOSYNCHRONOUS TRANSFERAL DRUG DELIVERY	13/162,517	Sep 13, 2005	US-2007-0191815-A1	Aug 16, 2007		
13164-702.201	United States of America	Utility - ORG	Issued	BIOSYNCHRONOUS TRANSFERAL DRUG DELIVERY	11/302,525	Sep 13, 2005	US-2006-0082838-A1	Mar 13, 2006	7,780,981	Aug 24, 2010
13164-702.300	United States of America	Utility - CON	Abandoned	BIOSYNCHRONOUS TRANSFERAL DRUG DELIVERY	13/307,150	Jan 23, 2010	US-2014-0200525-A1	Jul 17, 2014		
13164-702.301	United States of America	Utility - CON	Abandoned	BIOSYNCHRONOUS TRANSFERAL DRUG DELIVERY	12/849,889	Jul 13, 2010	US-2010-0289642-A1	Nov 4, 2010		
13164-702.302	United States of America	Utility - CON	Issued	BIOSYNCHRONOUS TRANSFERAL DRUG DELIVERY FOR LINGUISTY, ANTI-AGING, FATIGUE MANAGEMENT, OBESITY, WEIGHT LOSS, WEIGHT MANAGEMENT, DELIVERY OF NUTRACEUTICALS, AND THE TREATMENT OF HYPERTENSIA, ALZHEIMER'S DISEASE, SLEEP DISORDERS, PARKINSON'S DISEASE, AIDS, EPILEPSY, ATTENTION DEFICIT DISORDER, NICOTINE ADDICTION, CANCER, HEADACHE AND PAIN CONTROL, ASTHMA, ARTERIA, HYPERTENSION, DEPRESSION, COLIC, FLU AND THE LIKE	14/764,725	May 7, 2014	US-2014-0913423-A1	Oct 30, 2014	8,884,186	Jan 6, 2017
13164-702.303	United States of America	Utility - CON	Issued	TRANSFERAL DRUG DELIVERY METHOD AND SYSTEM	14/745,888	Jan 22, 2015	US-2015-0283366-A1	Jan 8, 2015	8,575,236	Jan 31, 2017
13164-702.304	United States of America	Utility - CON	Issued	BIOSYNCHRONOUS TRANSFERAL DRUG DELIVERY	14/745,704	Jan 22, 2015	US-2015-0283367-A1	Jan 8, 2015	8,505,237	Jan 31, 2017
13164-702.305	United States of America	Utility - CON	Published	TRANSFERAL DRUG DELIVERY METHOD AND SYSTEM	15/386,638	Dec 20, 2016	US-2017-0400572-A1	Apr 13, 2017		
13164-702.306	United States of America	Utility - CON	Published	BIOSYNCHRONOUS TRANSFERAL DRUG DELIVERY	15/386,665	Dec 20, 2016	US-2017-0400573-A1	Apr 13, 2017		
13164-702.307	United States of America	Utility - CON	Unfiled	BIOSYNCHRONOUS TRANSFERAL DRUG DELIVERY FOR LINGUISTY, ANTI-AGING, FATIGUE MANAGEMENT, OBESITY, WEIGHT LOSS, WEIGHT MANAGEMENT, DELIVERY OF NUTRACEUTICALS, AND THE TREATMENT OF HYPERTENSIA, ALZHEIMER'S DISEASE, SLEEP DISORDERS, PARKINSON'S DISEASE, AIDS, EPILEPSY, ATTENTION DEFICIT DISORDER, NICOTINE ADDICTION, CANCER, HEADACHE AND PAIN CONTROL, ASTHMA, ARTERIA, HYPERTENSION, DEPRESSION, COLIC, FLU AND THE LIKE						

Schedule A  
US Patents and Patent Applications

13164-702.801	United States of America	Utility - DPP	Issued	DISYNCRONOUS TRANSDERMAL DRUG DELIVERY FOR LONGEVITY, ANTI-AGING, FATIGUE MANAGEMENT, OBESITY, WEIGHT LOSS, WEIGHT MANAGEMENT, DELIVERY OF NUTRACEUTICALS, AND THE TREATMENT OF HYPERTENSION, ALZHEIMER'S DISEASE, SLEEP DISORDERS, PARKINSON'S DISEASE, AIDS, EPILEPSY, ATTENTION DEFICIT DISORDER, NICOTINE ADDICTION, CANCER, HEADACHE AND PAIN CONTROL, ASTHMA, ANGINA, HYPERTENSION, DEPRESSION, COOLD, FLU AND THE LIKE	13/988,195	Jan 9, 2012	US-2012-0302542-A1	Nov 28, 2012	7,643,296	Jan 3, 2013
13164-702.802	United States of America	Utility - DPP	Issued	DISYNCRONOUS TRANSDERMAL DRUG DELIVERY FOR LONGEVITY, ANTI-AGING, FATIGUE MANAGEMENT, OBESITY, WEIGHT LOSS, WEIGHT MANAGEMENT, DELIVERY OF NUTRACEUTICALS, AND THE TREATMENT OF HYPERTENSION, ALZHEIMER'S DISEASE, SLEEP DISORDERS, PARKINSON'S DISEASE, AIDS, EPILEPSY, ATTENTION DEFICIT DISORDER, NICOTINE ADDICTION, CANCER, HEADACHE AND PAIN CONTROL, ASTHMA, ANGINA, HYPERTENSION, DEPRESSION, COOLD, FLU AND THE LIKE	13/988,282	Apr 21, 2012	US-2012-0224611-A1	Aug 10, 2012	7,298,238	Apr 30, 2013
13164-702.803	United States of America	Utility - DPP	Issued	DISYNCRONOUS TRANSDERMAL DRUG DELIVERY FOR LONGEVITY, ANTI-AGING, FATIGUE MANAGEMENT, OBESITY, WEIGHT LOSS, WEIGHT MANAGEMENT, DELIVERY OF NUTRACEUTICALS, AND THE TREATMENT OF HYPERTENSION, ALZHEIMER'S DISEASE, SLEEP DISORDERS, PARKINSON'S DISEASE, AIDS, EPILEPSY, ATTENTION DEFICIT DISORDER, NICOTINE ADDICTION, CANCER, HEADACHE AND PAIN CONTROL, ASTHMA, ANGINA, HYPERTENSION, DEPRESSION, COOLD, FLU AND THE LIKE	13/988,891	Mar 14, 2012	US-2012-0182295-A1	Jan 29, 2012	7,298,778	Apr 10, 2013
13164-702.301	United States of America	Utility - DPP	Issued	DISYNCRONOUS TRANSDERMAL DRUG DELIVERY FOR LONGEVITY, ANTI-AGING, FATIGUE MANAGEMENT, OBESITY, WEIGHT LOSS, WEIGHT MANAGEMENT, DELIVERY OF NUTRACEUTICALS, AND THE TREATMENT OF HYPERTENSION, ALZHEIMER'S DISEASE, SLEEP DISORDERS, PARKINSON'S DISEASE, AIDS, EPILEPSY, ATTENTION DEFICIT DISORDER, NICOTINE ADDICTION, CANCER, HEADACHE AND PAIN CONTROL, ASTHMA, ANGINA, HYPERTENSION, DEPRESSION, COOLD, FLU AND THE LIKE	13/981,677	Oct 31, 2007	US-2008-0126092-A1	Sep 11, 2008	7,252,321	Aug 28, 2012
13164-703.100	United States of America	Proc - ORF	Expired	PORTABLE DEVICE FOR TRANSDERMAL DRUG DELIVERY	60/564,992	May 24, 2005				
13164-703.101	United States of America	Proc - ORF	Expired	PERCUTANEOUS MICROPUMP	60/726,075	Sep 24, 2005				

Schedule A  
US Patents and Patent Applications

13164-703.200	United States of America	Utility - DRG	Issued	PORTABLE DRUG DELIVERY DEVICE INCLUDING A DETACHABLE AND REPLACEMENT ADMINISTRATION OR DOSING ELEMENT	11/040,109	May 28, 2008	US-2008-0271020-A1	Nov 30, 2008	8,372,080	Feb 11, 2013
13164-708.700	United States of America	Utility - HEIS	Issued	PORTABLE DRUG DELIVERY DEVICE INCLUDING A DETACHABLE AND REPLACEMENT ADMINISTRATION OR DOSING ELEMENT	14/815,812	Feb 5, 2015			8,446,217	Nov 29, 2016
13164-704.106	United States of America	Prev - DRG	Expired	TRANSDERMAL DRUG DELIVERY SYSTEM AND METHOD	81/755,307	Jan 22, 2003				
13164-704.200	United States of America	Utility - DRG	Abandoned	TRANSDERMAL DRUG DELIVERY SYSTEM AND METHOD	14/158,948	Jan 16, 2014	US-2014-0197047-A1			Jul 24, 2014
13164-705.100	United States of America	Prev - DRG	Expired	OPTIMIZED BIOSYNCHRONOUS TRANSDERMAL DRUG DELIVERY	81/754,339	Jan 24, 2003				
13164-705.200	United States of America	Utility - DRG	Issued	OPTIMIZED BIO-SYNCHRONOUS BIOMETRIC AGENT DELIVERY SYSTEM	14/159,998	Jan 15, 2014	US-2014-0207048-A1			Jul 24, 2014
13164-705.400	United States of America	Utility - DRG	Published	OPTIMIZED BIO-SYNCHRONOUS BIOMETRIC AGENT DELIVERY SYSTEM	18/168,720	Oct 19, 2018	US-2018-0054235-A1			Feb 21, 2019
13164-706.100	United States of America	Prev - DRG	Expired	FEEDBACK CONTROLLED SUBSTANCE DELIVERY DEVICE	82/046,736	Sep 5, 2014				
13164-707.100	United States of America	Prev - DRG	Expired	DEVICE AND METHOD FOR PROGRAMMABLE TRANSDERMAL BIOMETRIC NICOTINE DELIVERY	81/801,187	Dec 27, 2003				
13164-708.100	United States of America	Prev - DRG	Expired	BIOSYNCHRONOUS TRANSDERMAL DELIVERY OF NUTRACEUTICALS	80/883,807	Oct 31, 2000				
13164-708.101	United States of America	Prev - DRG	Expired	TRANSDERMAL DRUG DELIVERY FOR THE TREATMENT OF HYPERTENSIVE	80/883,608	Oct 31, 2000				
13164-708.102	United States of America	Prev - DRG	Expired	BIOSYNCHRONOUS TRANSDERMAL DRUG DELIVERY FOR LONGEVITY AND AGING	80/883,613	Oct 31, 2000				
13164-708.103	United States of America	Prev - DRG	Expired	TRANSDERMAL DRUG DELIVERY FOR FATIGUE MANAGEMENT	80/883,618	Oct 31, 2000				
13164-708.104	United States of America	Prev - DRG	Expired	BIOSYNCHRONOUS TRANSDERMAL DRUG DELIVERY FOR OBESITY, WEIGHT LOSS AND WEIGHT MANAGEMENT	80/883,640	Oct 31, 2000				
13164-708.105	United States of America	Prev - DRG	Expired	BIOSYNCHRONOUS TRANSDERMAL DRUG DELIVERY FOR THE TREATMENT OF ALZHEIMER'S DISEASE (AD)	80/883,624	Oct 31, 2000				
13164-708.106	United States of America	Prev - DRG	Expired	BIOSYNCHRONOUS TRANSDERMAL DRUG DELIVERY FOR THE TREATMENT OF SLEEP DISORDERS	80/883,685	Oct 31, 2000				
13164-708.107	United States of America	Prev - DRG	Expired	BIOSYNCHRONOUS TRANSDERMAL DRUG DELIVERY FOR THE TREATMENT OF PARKINSON'S DISEASE (PD)	80/883,671	Oct 31, 2000				
13164-708.108	United States of America	Prev - DRG	Expired	BIOSYNCHRONOUS TRANSDERMAL DRUG DELIVERY FOR THE TREATMENT OF ATTENTION DEFICIT DISORDER (ADD/ADHD)	80/883,677	Oct 31, 2000				
13164-708.109	United States of America	Prev - DRG	Expired	BIOSYNCHRONOUS TRANSDERMAL DRUG DELIVERY FOR THE TREATMENT OF NICOTINE ADDICTION	80/883,668	Oct 31, 2000				
13164-708.100	United States of America	Prev - DRG	Expired	DRUG DELIVERY METHODS AND SYSTEMS	82/108,939	Jan 28, 2013				
13166-792.200	United States of America	Utility - DRG	Issued	DRUG DELIVERY METHODS AND SYSTEMS	15/009,693	Jan 28, 2016	US-2016-0220796-A1	Aug 4, 2016	10,213,506	Feb 26, 2018

Schedule A  
US Patents and Patent Applications

13164-709.300	United States of America	Utility - CON	Published	DRUG DELIVERY METHODS AND SYSTEMS	15/204,433	Feb 25, 2019	US-2019-0176308-A1	Sep 12, 2019		
13164-709.400	United States of America	Utility - DRV	Issued	DRUG DELIVERY METHODS AND SYSTEMS	15/099,382	Sep 8, 2017	US-2018-0117291-A1	May 3, 2018	10,232,136	Mar 15, 2019
13164-710.300	United States of America	Proc - DRG	Expired	TRANSDERMAL DRUG DELIVERY DEVICE WITH SENSORY REMOVAL FEATURES	02/263,516	Dec 9, 2015				
13164-711.100	United States of America	Proc - DRG	Expired	CRAWING INPUT AND SUPPORT SYSTEM	02/137,436	Mar 12, 2015				
13164-711.301	United States of America	Proc - DRG	Closed	CRAWING INPUT AND SUPPORT SYSTEM						
13164-711.300	United States of America	Utility - CON	Published	CRAWING INPUT AND SUPPORT SYSTEM	16/136,415	Aug 28, 2018	US-2018-0374381-A1	Oct 27, 2018		
13164-711.400	United States of America	Utility - NSPCT	Published	CRAWING INPUT AND SUPPORT SYSTEM	15/051,178	Mar 31, 2019	US-2019-0025730-A1	Feb 1, 2019		
13164-712.100	United States of America	Proc - DRG	Expired	MODIFYING ONE SHIRT	02/262,785	Dec 3, 2015				
13164-712.101	United States of America	Proc - DRG	Expired	MODIFYING ONE SHIRT	02/260,121	Dec 5, 2015				
13164-712.102	United States of America	Utility - NSPCT	Pending	TRANSDERMAL DRUG DELIVERY DEVICE AND METHODS	16/464,371	Dec 5, 2017				
13164-713.100	United States of America	Proc - DRG	Expired	TRANSDERMAL DRUG DELIVERY DEVICE FOR DELIVERING OPPIOIDS	02/401,963	Sep 28, 2016				
13164-713.101	United States of America	Utility - NSPCT	Published	TRANSDERMAL DRUG DELIVERY DEVICE FOR DELIVERING OPPIOIDS	18/930,111	Oct 26, 2017	US-2019-0231707-A1	Aug 1, 2019		
13164-714.100	United States of America	Proc - DRG	Expired	TRANSDERMAL DRUG DELIVERY DEVICES AND METHODS	04/448,421	Jan 6, 2017				
13164-714.150	United States of America	Utility - NSPCT	Pending	TRANSDERMAL DRUG DELIVERY DEVICES AND METHODS	16/673,081	Jan 5, 2018				
13164-715.100	United States of America	Proc - DRG	Expired	TRANSDERMAL DRUG DELIVERY DEVICES AND METHODS	02/850,325	Feb 13, 2017				
13164-715.150	United States of America	Utility - NSPCT	Pending	TRANSDERMAL DRUG DELIVERY DEVICES AND METHODS	16/484,477	Feb 13, 2018				
13164-716.100	United States of America	Proc - DRG	Expired	TRANSDERMAL DRUG DELIVERY DEVICES AND METHODS	02/443,526	Jan 6, 2017				
13164-717.100	United States of America	Proc - DRG	Expired	METHODS AND DEVICES FOR TREATING LEVODOPA INDUCED DYSKINESIA	02/443,549	Jan 6, 2017				
13164-717.150	United States of America	Utility - NSPCT	Pending	METHODS AND DEVICES FOR TREATING LEVODOPA INDUCED DYSKINESIA	16/674,083	Jan 5, 2018				
13164-718.100	United States of America	Proc - DRG	Expired	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	02/909,453	Apr 2, 2007				
13164-718.101	United States of America	Proc - DRG	Expired	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	02/956,296	Aug 16, 2007				
13164-718.102	United States of America	Proc - DRG	Expired	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	02/956,657	Aug 17, 2007				
13164-718.200	United States of America	Utility - DRG	Issued	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	12/067,587	Apr 2, 2008	US-2008-0250825-A1	Oct 13, 2008	7,718,677	May 18, 2010
13164-718.300	United States of America	Utility - CON	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	12/542,897	Jul 14, 2008	US-2009-0025713-A1	Feb 4, 2010		

Schedule A  
US Patents and Patent Applications

13164-718.301	United States of America	Utility - CON	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	12/534,536	Aug 4, 2009	US-2010-0166735-A1	Jul 1, 2010		
13164-718.302	United States of America	Utility - CON	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	12/534,535	Aug 4, 2009	US-2010-0158895-A1	Jun 24, 2010		
13164-718.303	United States of America	Utility - CON	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	12/764,677	Feb 12, 2010				
13164-718.304	United States of America	Utility - CON	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	12/901,354	Oct 9, 2010	US-2013-0071276-A1	Mar 31, 2013		
13164-718.305	United States of America	Utility - CON	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	14/950,840	Sep 20, 2015	US-2015-0230732-A1	Aug 18, 2016		
13164-718.306	United States of America	Utility - CON	Published	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	15/613,725	Jun 3, 2017	US-2018-0130753-A1	Apr 26, 2018		
13164-718.900	United States of America	Utility - DIV	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	12/534,841	Aug 4, 2009	US-2010-0136903-A1	Aug 5, 2010		
13164-718.403	United States of America	Utility - DIV	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	12/534,946	Aug 4, 2009	US-2010-0159094-A1	Jun 24, 2010		
13164-719.000	United States of America	Proc - ORG	Expired	COMPOSITIONS AND METHODS FOR TREATMENT OF PARKINSON'S DISEASE	01/504,974	Jul 6, 2001				
13164-719.000	United States of America	Utility - ORG	Abandoned	COMPOSITIONS AND METHODS FOR TREATMENT OF SYMPTOMS IN PARKINSON'S DISEASE PATIENTS	13/641,335	Jul 3, 2012	US-2013-0037256-A1	Jan 17, 2013		
13164-719.300	United States of America	Utility - CON	Abandoned	COMPOSITIONS AND METHODS FOR TREATMENT OF SYMPTOMS IN PARKINSON'S DISEASE PATIENTS	14/938,368	Aug 27, 2015	US-2016-0129553-A1	Aug 4, 2016		
13164-719.301	United States of America	Utility - CON	Published	COMPOSITIONS AND METHODS FOR TREATMENT OF SYMPTOMS IN PARKINSON'S DISEASE PATIENTS	15/698,383	Jul 15, 2017	US-2018-0084078-A1	Feb 21, 2018		
13164-720.000	United States of America	Proc - ORG	Expired	SMART ABUSE-DEFERENT TRANSDERMAL DRUG DELIVERY SYSTEM	02/540,806	Nov 2, 2001				
13164-720.101	United States of America	Proc - ORG	Expired	SMART ABUSE-DEFERENT TRANSDERMAL DRUG DELIVERY SYSTEM	02/626,240	Jan 13, 2002				
13164-720.102	United States of America	Proc - ORG	Pending	SMART ABUSE-DEFERENT TRANSDERMAL DRUG DELIVERY SYSTEM	02/732,052	Sep 16, 2002				
13164-721.000	United States of America	Proc - ORG	Expired	TRANSDERMAL DELIVERY DEVICE WITH MULTIPLE DRUG CHAMBERS	02/680,895	Nov 2, 2001				
13164-721.100	United States of America	Proc - ORG	Expired	TRANSDERMAL DELIVERY DEVICE WITH MULTIPLE DRUG CHAMBERS	02/677,494	Aug 25, 2001				
13164-723.100	United States of America	Proc - ORG	Pending/To Be Abandoned	OSMOTIC SOLVENT REMOVAL SYSTEM	02/736,059	Sep 26, 2002				
13164-724.100	United States of America	Proc - ORG	Pending	THERMALLY REGULATED TRANSDERMAL DRUG DELIVERY SYSTEM	02/768,768	Nov 25, 2002				

Schedule A  
GIS Patent and Patent Applications

ATTORNEY DOCKET NO.	COUNTRY	PATENT TYPE	STATUS	TITLE	APPLICATION NO.	APPLICATION DATE	PUBLICATION NUMBER	PUBLICATION DATE	PATENT NUMBER	GRANT DATE
13164-700.500	PCT	Utility - CRG	Completed	TRANSDERMAL DRUG DELIVERY METHOD AND SYSTEM	PCT/US2006/022947	Sep 13, 2006	WO 2006/038086	May 1, 2006		
13164-700.LAD	Canada	Utility - NSPCT	Issued	TRANSDERMAL DRUG DELIVERY METHOD AND SYSTEM	7544295	Sep 13, 2006			2,544,291	Apr 8, 2008
13164-700.A190	Switzerland	Utility - CRG	Closed	TRANSDERMAL DRUG DELIVERY METHOD AND SYSTEM	1832703	Oct 27, 2006				
13164-700.A11	Switzerland	Utility - EP/PAT	Issued	TRANSDERMAL DRUG DELIVERY METHOD AND SYSTEM	04787507.5	Sep 13, 2006	1682211	Jul 26, 2006	1682211	Nov 18, 2006
13164-700.DED	Germany	Utility - EP/PAT	Issued	TRANSDERMAL DRUG DELIVERY METHOD AND SYSTEM	04787507.5	Sep 13, 2006	1682211	Jul 26, 2006	1682211	Nov 18, 2006
13164-700.EPU	European Patent Office	Utility - NSPCT	Completed	TRANSDERMAL DRUG DELIVERY METHOD AND SYSTEM	04787507.5	Sep 13, 2006	1682211	Jul 26, 2006	1682211	Nov 18, 2006
13164-700.ESR	Spain	Utility - EP/PAT	Issued	TRANSDERMAL DRUG DELIVERY METHOD AND SYSTEM	04787507.5	Sep 13, 2006	1682211	Jul 26, 2006	1682211	Nov 18, 2006
13164-700.F10	France	Utility - EP/PAT	Issued	TRANSDERMAL DRUG DELIVERY METHOD AND SYSTEM	04787507.5	Sep 13, 2006	1682211	Jul 26, 2006	1682211	Nov 18, 2006
13164-700.G80	United Kingdom	Utility - EP/PAT	Issued	TRANSDERMAL DRUG DELIVERY METHOD AND SYSTEM	04787507.5	Sep 13, 2006	1682211	Jul 26, 2006	1682211	Nov 18, 2006
13164-700.I10	Italy	Utility - EP/PAT	Issued	TRANSDERMAL DRUG DELIVERY METHOD AND SYSTEM	04787507.5	Sep 13, 2006	1682211	Jul 26, 2006	1682211	Nov 18, 2006
13164-700.M10	Netherlands	Utility - EP/PAT	Issued	TRANSDERMAL DRUG DELIVERY METHOD AND SYSTEM	04787507.5	Sep 13, 2006	1682211	Jul 26, 2006	1682211	Nov 18, 2006
13164-702.G01	PCT	Utility - CRG	Closed	TRANSDERMAL DRUG DELIVERY METHOD AND SYSTEM	PCT/US2006/022672	Sep 13, 2006	WO 2006/031855	Mar 23, 2006		
13164-702.A10	Australia	Utility - NSPCT	Issued	TRANSDERMAL DRUG DELIVERY METHOD AND SYSTEM	2006284708	Sep 13, 2006			705284708	Mar 22, 2008
13164-702.CAD	Canada	Utility - NSPCT	Issued	TRANSDERMAL DRUG DELIVERY METHOD AND SYSTEM	2502228	Sep 13, 2006			2,580,328	Jan 6, 2008
13164-702.EPU	European Patent Office	Utility - NSPCT	Published	TRANSDERMAL DRUG DELIVERY METHOD AND SYSTEM	05796698.8	Sep 13, 2006	1802278	Jul 8, 2007		
13164-702.I10	Japan	Utility - NSPCT	Issued	TRANSDERMAL DRUG DELIVERY METHOD AND SYSTEM	2007-281452	Sep 13, 2006	2008-012212	Apr 28, 2008	254636	Apr 26, 2008
13164-703.600	PCT	Utility - CRG	Completed	PORTABLE DRUG DELIVERY DEVICE	PCT/US2006/020246	May 28, 2006	WO 2006/107908	Nov 30, 2006		
13164-703.LAD	Canada	Utility - NSPCT	Issued	PORTABLE DRUG DELIVERY DEVICE	2609351	May 24, 2006			2,609,351	Jan 7, 2008
13164-703.DEG	Germany	Utility - EP/PAT	Issued	PORTABLE DRUG DELIVERY DEVICE INCLUDING A DETACHABLE AND RESEALABLE ADMINISTRATION OR DOSING ELEMENT	06721175.A	May 24, 2006	1805343	Feb 13, 2008	1805341	Dec 17, 2006
13164-703.EPO	European Patent Office	Utility - NSPCT	Completed	PORTABLE DRUG DELIVERY DEVICE INCLUDING A DETACHABLE AND RESEALABLE ADMINISTRATION OR DOSING ELEMENT	06721175.A	May 24, 2006	1805343	Feb 13, 2008	1805341	Dec 17, 2006

Schedule 6  
OIG Patents and Patent Applications

13164-703.EP1	European Patent Office	Utility - DIV	Published	PORTABLE DRUG DELIVERY DEVICE INCLUDING A DETACHABLE AND REPLACEABLE ADMINISTRATION OR DOSING ELEMENT	161575E.0	May 24, 2006	2971169	Sep 23, 2015		
13164-703.E50	Spain	Utility - EPBAI	Issued	PORTABLE DRUG DELIVERY DEVICE INCLUDING A DETACHABLE AND REPLACEABLE ADMINISTRATION OR DOSING ELEMENT	06771175.A	May 24, 2006	1895341	Feb 13, 2008	1688341	Dec 17, 2010
13164-703.F00	France	Utility - EPBAI	Issued	PORTABLE DRUG DELIVERY DEVICE INCLUDING A DETACHABLE AND REPLACEABLE ADMINISTRATION OR DOSING ELEMENT	06771175.A	May 24, 2006	1895341	Feb 13, 2008	1688341	Dec 17, 2010
13164-705.E80	United Kingdom	Utility - EPBAI	Issued	PORTABLE DRUG DELIVERY DEVICE INCLUDING A DETACHABLE AND REPLACEABLE ADMINISTRATION OR DOSING ELEMENT	06771175.A	May 24, 2006	1895341	Feb 13, 2008	1688341	Dec 17, 2010
13164-703.I10	Italy	Utility - EPBAI	Issued	PORTABLE DRUG DELIVERY DEVICE INCLUDING A DETACHABLE AND REPLACEABLE ADMINISTRATION OR DOSING ELEMENT	06771175.A	May 24, 2006	1895341	Feb 13, 2008	1688341	Dec 17, 2010
13164-704.F00	PCT	Utility - ORG	Completed	TRANSFERENTIAL DRUG DELIVERY SYSTEM AND METHOD	PCT/US2006/012405	Jan 22, 2006	WO 2014/11686G	Jul 31, 2014		
13164-704.F00	PCT	Utility - ORG	Completed	OPTIMIZED BIO-SYNCHRONOUS BIOACTIVE AGENT DELIVERY SYSTEM	PCT/US2006/012495	Jan 22, 2006	WO 2014/11688G	Jul 31, 2014		
13164-705.EP0	European Patent Office	Utility - NBPCT	Published	OPTIMIZED BIO-SYNCHRONOUS BIOACTIVE AGENT DELIVERY SYSTEM	14742894.9	Jan 22, 2010	1948896	Dec 2, 2015		
13164-705.JP0	Japan	Utility - NBPCT	Issued	OPTIMIZED BIO-SYNCHRONOUS BIOACTIVE AGENT DELIVERY SYSTEM	2015-025229	Jan 22, 2010		0549991		Mar 5, 2019
13164-708.F00	PCT	Utility - ORG	Completed	TRANSFERENTIAL DELIVERY TECHNIQUES FOR DRUGS, NUTRACEUTICALS AND OTHER ACTIVE SUBSTANCES	PCT/US2007/023096	Oct 31, 2007	WO 2008/094780	May 6, 2008		
13164-708.F00	Canada	Utility - NBPCT	Abandoned	TRANSFERENTIAL DELIVERY TECHNIQUES FOR DRUGS, NUTRACEUTICALS AND OTHER ACTIVE SUBSTANCES	2668184	Oct 31, 2007				
13164-709.F00	PCT	Utility - ORG	Completed	DRUG DELIVERY METHODS AND SYSTEMS	PCT/US2016/035463	Jan 28, 2016	WO 2016/113406	Aug 4, 2016		
13164-709.AU0	Australia	Utility - NBPCT	Pending	DRUG DELIVERY METHODS AND SYSTEMS	1016211330	Jan 28, 2016				
13164-709.CN0	Canada	Utility - NBPCT	Pending	DRUG DELIVERY METHODS AND SYSTEMS	2,374,324	Jan 28, 2016				



Schedule A  
GIS Patents and Patent Applications

13164-708.IPO	European Patent Office	Utility - NSPCT	Pending	DRUG DELIVERY METHODS AND SYSTEMS	2017-04142.7	Jan 28, 2016	3259258		
13164-708.IPO	Japan	Utility - NSPCT	Pending	DRUG DELIVERY METHODS AND SYSTEMS	2017-040680	Jan 28, 2016			
13354-711.898	PCT	Utility - ORG	Completed	CRAWING INPUT AND SUPPORT SYSTEM	PCT/US2016/022117	Mar 15, 2016	895 2016/020373	Sep 25, 2016	
13354-711.A10	Australia	Utility - NSPCT	Pending	CRAWING INPUT AND SUPPORT SYSTEM	2016228778	Mar 11, 2016			
13154-711.CA0	Canada	Utility - NSPCT	Pending	CRAWING INPUT AND SUPPORT SYSTEM	2,377,855	Mar 11, 2016			
13164-711.IPO	European Patent Office	Utility - NSPCT	Published	CRAWING INPUT AND SUPPORT SYSTEM	18762646.6	Mar 11, 2016	3287875		
13164-711.IPO	Japan	Utility - NSPCT	Pending	CRAWING INPUT AND SUPPORT SYSTEM	2017-04067	Mar 11, 2016			
13164-712.891	PCT	Utility - ORG	Completed	TRANSDERMAL DRUG DELIVERY DEVICES AND METHODS	PCT/US2017/060765	Dec 5, 2017	895 2018/026723		
13154-712.A11	Australia	Utility - NSPCT	Pending	TRANSDERMAL DRUG DELIVERY DEVICES AND METHODS	201737667	Dec 5, 2017			
13154-712.CA1	Canada	Utility - NSPCT	Pending	TRANSDERMAL DRUG DELIVERY DEVICES AND METHODS	3,045,877	Dec 5, 2017			
13164-712.EP1	European Patent Office	Utility - NSPCT	Pending	TRANSDERMAL DRUG DELIVERY DEVICES AND METHODS	17872507.0	Dec 5, 2017			
13164-712.IPO	Japan	Utility - NSPCT	Pending	TRANSDERMAL DRUG DELIVERY DEVICES AND METHODS	2019-034091	Dec 5, 2017			
13164-713.EUR	PCT	Utility - ORG	Completed	TRANSDERMAL DRUG DELIVERY DEVICE FOR DELIVERING OPIOIDS	PCT/US2017/054093	Sep 28, 2017	895 2018/026727		
13154-713.A10	Australia	Utility - NSPCT	Pending	TRANSDERMAL DRUG DELIVERY DEVICE FOR DELIVERING OPIOIDS	2017336778	Sep 28, 2017			
13154-713.CA0	Canada	Utility - NSPCT	Pending	TRANSDERMAL DRUG DELIVERY DEVICE FOR DELIVERING OPIOIDS	3,035,622	Sep 28, 2017			
13164-713.EPO	European Patent Office	Utility - NSPCT	Published	TRANSDERMAL DRUG DELIVERY DEVICE FOR DELIVERING OPIOIDS	17857644.8	Sep 28, 2017	3518883		
13164-713.IPO	Japan	Utility - NSPCT	Pending	TRANSDERMAL DRUG DELIVERY DEVICE FOR DELIVERING OPIOIDS	2019-038100	Sep 28, 2017			
13164-714.890	PCT	Utility - ORG	Completed	TRANSDERMAL DRUG DELIVERY DEVICES AND METHODS	PCT/US2018/012508	Jan 5, 2018	895 2018/129304		
13164-714.A10	Australia	Utility - NSPCT	Pending	TRANSDERMAL DRUG DELIVERY DEVICES AND METHODS	2018295529	Jan 5, 2018			
13164-714.CA0	Canada	Utility - NSPCT	Pending	TRANSDERMAL DRUG DELIVERY DEVICES AND METHODS	3,048,529	Jan 5, 2018			
13164-714.EPO	European Patent Office	Utility - NSPCT	Pending	TRANSDERMAL DRUG DELIVERY DEVICES AND METHODS	18735792.6	Jan 5, 2018			
13154-715.IPO	Japan	Utility - NSPCT	Pending	TRANSDERMAL DRUG DELIVERY DEVICES AND METHODS	2019-036873	Jan 5, 2018			
13164-715.892	PCT	Utility - ORG	Completed	TRANSDERMAL DRUG DELIVERY DEVICES AND METHODS	PCT/US2018/018967	Feb 13, 2018	895 2018/148746		
13164-715.A10	Australia	Utility - NSPCT	Pending	TRANSDERMAL DRUG DELIVERY DEVICES AND METHODS	2018216432	Feb 13, 2018			
13164-715.CA0	Canada	Utility - NSPCT	Pending	TRANSDERMAL DRUG DELIVERY DEVICES AND METHODS	3,052,831	Feb 13, 2018			

Schedule A  
 OUS Patents and Patent Applications

13184-715.EPR	European Patent Office	Utility - NSPCT	Pending	TRANSORAL DRUG DELIVERY DEVICES AND METHODS	10750954.1	Feb 13, 2018			
13184-716.JP4	Japan	Utility - NSPCT	Pending	TRANSORAL DRUG DELIVERY DEVICES AND METHODS	2019-543292	Feb 13, 2018			
13184-717.WO	PCT	Utility - DRG	Completed	METHOD AND DEVICES FOR TREATING LEVODOPA INDUCED DYSKINESIA	PCT/US2018/012686	Jan 5, 2018	WO 2018/122953		
13184-717.AU0	Australia	Utility - NSPCT	Pending	METHODS AND DEVICES FOR TREATING LEVODOPA INDUCED DYSKINESIA	2018205251	Jan 5, 2018			
13184-717.CA0	Canada	Utility - NSPCT	Pending	METHODS AND DEVICES FOR TREATING LEVODOPA INDUCED DYSKINESIA	3,000,116	Jan 5, 2018			
13184-717.EP0	European Patent Office	Utility - NSPCT	Pending	METHODS AND DEVICES FOR TREATING LEVODOPA INDUCED DYSKINESIA	18796422.3	Jan 5, 2018			
13184-717.JP0	Japan	Utility - NSPCT	Pending	METHODS AND DEVICES FOR TREATING LEVODOPA INDUCED DYSKINESIA	2019-530816	Jan 5, 2018			
13184-719.WO	PCT	Utility - DRG	Completed	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	PCT/US2008/059174	Apr 2, 2008	WO 2008/127049	Oct 9, 2008	
13184-718.AU0	Australia	Utility - NSPCT	Issued/To Be Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	2008252454	Apr 2, 2008		2008252453	Oct 6, 2013
13184-718.CA0	Canada	Utility - DRG	Issued/To Be Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	2011203402	Apr 2, 2008		2011203402	Dec 18, 2014
13184-718.CA0	Canada	Utility - NSPCT	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	2,682,325	Apr 2, 2008			
13184-718.CH0	Switzerland	Utility - EP/PT	Issued	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	08251288.0	Apr 2, 2008	1977746	Oct 8, 2008	1977746
13184-718.CN0	China	Utility - NSPCT	Issued/To Be Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	200800039027.2	Apr 2, 2008	CN 201772348 A	Jul 7, 2009	2008 00039027.2
13184-718.CN1	China	Utility - DRG	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	201410137813.2	Apr 2, 2008	CN 100937009 A	Aug 13, 2004	
13184-718.DE0	Germany	Utility - EP/PT	Issued	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	08251288.0	Apr 2, 2008	1977746	Oct 8, 2008	2008 039 046.3
13184-718.EP0	European Patent Office	Utility - DRG	Completed	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	08251288.0	Apr 2, 2008	1977746	Oct 8, 2008	1977746

Schedule A  
 US Patents and Patent Applications

13164-718.EP1	European Patent Office	Irish - EP	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF GAG EFFECTS OF THERAPEUTIC TREATMENTS	11252129.0	Apr 2, 2008	13222598	May 18, 2011	
13164-718.EP2	European Patent Office	Irish - EP	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	11252137.3	Apr 2, 2008	13222186	May 16, 2011	
13294-718.EP3	European Patent Office	Irish - EP	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	11252139.5	Apr 2, 2008	13222167	May 18, 2011	
13164-718.ESP	Spain	Irish - EP PAT	Issued	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	08251280.6	Apr 2, 2008	1977746	Oct 8, 2008	Jul 30, 2014
13164-718.FRD	France	Irish - EP PAT	Issued	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	08251280.9	Apr 2, 2008	1977746	Oct 8, 2008	Jul 30, 2014
13164-718.GBD	United Kingdom	Irish - UK	Abandoned	SOLID ORALLY ADMINISTERED PHARMACEUTICAL COMPOSITIONS FOR THE REDUCTION OF SIDE EFFECTS OF A CYPANORFIC AGENT	0825991.7	Apr 2, 2008	2468224	Oct 8, 2008	Sep 3, 2010
13164-718.GES	United Kingdom	Irish - UK	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	0932941.2	Apr 2, 2008	2468224	Jan 6, 2010	Sep 29, 2010
13164-718.GBT	United Kingdom	Irish - UK	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	0902790.2	Apr 2, 2008	2468224	Sep 8, 2010	Nov 9, 2011
13164-718.HKD	Hong Kong	Irish - CNP	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	11109146.1	Jan 7, 2011	13459784	May 13, 2011	Sep 11, 2014
13164-718.HKI	Hong Kong	Irish - CNP	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	11109146.1	Apr 2, 2008	1335637A	May 28, 2010	Jul 25, 2011
13164-718.HKT	Hong Kong	Irish - CNP	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	11102141.6	Mar 5, 2011	1347861A	Aug 26, 2011	Jan 8, 2012
13164-718.IED	Ireland	Irish - EP PAT	Issued	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	08251280.0	Apr 2, 2008	1977746	Oct 8, 2008	Jul 30, 2014
13164-718.IJ2	Israel	Irish - NSEP	Intended to be Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	201269	Apr 2, 2008		201269	Aug 29, 2014

Schedule A  
 CUS Patents and Patent Applications:

13164-718.R.1	Israel	Utility - Div	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	131206	Apr 2, 2008				
13164-718.H0	India	Utility - NSPCT	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	6236/08/186/2008	Apr 2, 2008				
13164-719.J10	Italy	Utility - EP/PA	Abused	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	09/251196.0	Apr 2, 2008	1977746	Oct 6, 2009	1977746	Jul 30, 2014
13164-718.JP0	Japan	Utility - NSPCT	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	2010-502279	Apr 2, 2008	2010-523528		Jul 25, 2010	
13164-718.JP1	Japan	Utility - Div	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	2010-207130	Apr 2, 2008	2011-156109		Aug 25, 2012	
13164-718.JP2	Japan	Utility - Div	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	2010-204271	Apr 2, 2008	2016-20385		Feb 4, 2018	
13164-718.K00	Republic of Korea	Utility - NSPCT	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	10-2009-302260	Apr 2, 2008	10-2009-600-606		May 3, 2010	1121492
13164-718.K01	Republic of Korea	Utility - Div	Abandoned	METHODS AND COMPOSITIONS FOR REDUCTION OF SIDE EFFECTS OF THERAPEUTIC TREATMENTS	10-2011-201112	Apr 2, 2008				
13164-718.K02	PCT	Utility - DRG	Completed	COMPOSITIONS AND METHODS FOR TREATMENT OF PARKINSON'S DISEASE	PCT/US2012/04548	Jul 3, 2012	WO 2013/096043		Jun 10, 2013	
13164-718.C00	Canada	Utility - NSPCT	Pending/To Be Abandoned	COMPOSITIONS AND METHODS FOR TREATMENT OF PARKINSON'S DISEASE	2,841,785	Jul 3, 2012				
13164-719.L00	China	Utility - NSPCT	Closed	COMPOSITIONS AND METHODS FOR TREATMENT OF PARKINSON'S DISEASE		Jul 3, 2012				
13164-719.EP0	European Patent Office	Utility - NSPCT	Abandoned	COMPOSITIONS AND METHODS FOR TREATMENT OF PARKINSON'S DISEASE	12807195.7	Jul 3, 2012	2726146			
13164-718.H0	Israel	Utility - NSPCT	Closed	COMPOSITIONS AND METHODS FOR TREATMENT OF PARKINSON'S DISEASE		Jul 3, 2012				
13164-719.JP0	Japan	Utility - NSPCT	Abandoned	COMPOSITIONS AND METHODS FOR TREATMENT OF PARKINSON'S DISEASE		Jul 3, 2012				
13164-720.G00	PCT	Utility - DRG	Published	SMART ABUSE-DETERRENT TRANSDERMAL DRUG DELIVERY SYSTEM	PCT/US2018/059026	Nov 2, 2018	WO 2019/090125			
13164-712.G00	PCT	Utility - DRG	Pending	DRUG DELIVERY METHODS AND SYSTEMS	PCT/US2018/034032	May 29, 2018				



