

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4451840

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST
SEQUENCE:	4

CONVEYING PARTY DATA

Name	Execution Date
AUXILIUM US HOLDINGS, LLC	04/27/2017

RECEIVING PARTY DATA

Name:	WILMINGTON TRUST, NATIONAL ASSOCIATION, AS COLLATERAL TRUSTEE
Street Address:	1100 NORTH MARKET STREET
City:	WILMINGTON
State/Country:	DELAWARE
Postal Code:	19890

PROPERTY NUMBERS Total: 4

Property Type	Number
Patent Number:	8883187
Patent Number:	8465759
Patent Number:	8173152
Patent Number:	9364445

CORRESPONDENCE DATA

Fax Number: (714)755-8290

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ATTORNEY DOCKET NUMBER:	045495-0196
NAME OF SUBMITTER:	ANNA T KWAN
SIGNATURE:	/ATK/
DATE SIGNED:	06/08/2017

Total Attachments: 28

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**CONFIRMATORY GRANT OF SECURITY INTEREST
IN UNITED STATES PATENTS**

THIS CONFIRMATORY GRANT OF SECURITY INTEREST IN UNITED STATES PATENTS (as the same may be amended, restated, supplemented or otherwise modified from time to time, the "Confirmatory Grant") is made effective as of April 27, 2017 by and from ASTORA WOMEN'S HEALTH, LLC, AUXILIUM PHARMACEUTICALS, INC., AUXILIUM US HOLDINGS, LLC, ENDO PHARMACEUTICALS INC., ENDO PHARMACEUTICALS SOLUTIONS INC (both for itself and in its capacity as successor to INDEVUS PHARMACEUTICALS, INC), ENDO GENERICS HOLDINGS, INC (formerly known as PAR PHARMACEUTICAL COMPANIES, INC.) and PAR PHARMACEUTICAL, INC. (each a "Grantor", and collectively the "Grantors"), to and in favor of WILMINGTON TRUST, NATIONAL ASSOCIATION, for itself and as Collateral Trustee (as defined in the Collateral Trust Agreement referenced below) for the Secured Parties (as defined in the Collateral Trust Agreement referenced below) (in such capacities, the "Grantee").

WHEREAS, reference is made to (a) that certain Credit Agreement, dated as of April 27, 2017 (as the same may be amended, restated, amended and restated, supplemented or otherwise modified from time to time, the "Credit Agreement"), by and among ENDO INTERNATIONAL PLC, a company organized under the laws of Ireland (Registered Number 534814) ("Parent"), Endo Luxembourg Finance Company I S.à r.l., a *société à responsabilité limitée* (private limited liability company) incorporated under the laws of the Grand Duchy of Luxembourg, having its registered office at 2a, rue Nicolas Bové, L-1253 Luxembourg and registered with the Luxembourg Register of Commerce and Companies under number B182645 (the "Lux Borrower"), Endo LLC, a Delaware limited liability company (the "Co-Borrower" and, together with the Lux Borrower, the "Borrowers"), the lenders from time to time party thereto and JPMORGAN CHASE BANK, N.A., as administrative agent (in such capacity, together with its successor and permitted assigns, the "Credit Agreement Agent"), (b) that certain Indenture, dated as of April 27, 2017 (as the same may be amended, restated, amended and restated, supplemented or otherwise modified from time to time, the "Indenture"), by and among Endo Designated Activity Company, a company organized under the laws of Ireland (Registered Number 534651) ("EDAC"), Endo Finance LLC, a Delaware limited liability company ("Finance LLC") and Endo Finco Inc., a Delaware corporation (together with EDAC and Finance LLC, collectively, the "Issuers"), certain affiliates of the Issuers from time to time party thereto as guarantors, and Well Fargo Bank, National Association, as trustee (in such capacity, together with its successors and permitted assigns in such capacity, the "Indenture Trustee") and (c) that certain Collateral Trust Agreement, dated as of April 27, 2017 (as the same may be amended, restated, amended and restated, supplemented or otherwise modified from time to time, the "Collateral Trust Agreement"), by and among Parent, the Borrowers, the Issuers, the other grantors from time to time party thereto and Wilmington Trust, National Association, in its capacity as Collateral Trustee (the "Collateral Trustee") for the Secured Parties (as defined in the Collateral Trust Agreement), the Credit Agreement Agent, the Indenture Trustee and the other parties from time to time party thereto;

WHEREAS, the Grantor and certain Domestic Subsidiaries of Parent have entered into a US Pledge and Security Agreement dated as of April 27, 2017 (as may be

amended, restated, supplemented or otherwise modified from time to time, the "US Security Agreement"); and

WHEREAS, the Grantor owns the patents and patent applications listed on Schedule A attached hereto (the "Patents"), which Patents have been issued by or are pending applications in the United States Patent and Trademark Office;

WHEREAS, this Confirmatory Grant has been executed in conjunction with the security interest granted under the US Security Agreement to the Grantee for the benefit of the Secured Parties. In the event that any provisions of this Confirmatory Grant are deemed to conflict with the US Security Agreement, the provisions of the US Security Agreement shall govern.

NOW, THEREFORE, in consideration of the mutual covenants and agreements set forth herein and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, it is hereby agreed that:

1. Definitions. All capitalized terms not defined herein shall have the respective meaning given to them in the US Security Agreement.

2. The Security Interest.

(a) This Confirmatory Grant is made to secure the prompt and complete performance and payment of all the Secured Obligations. Upon the occurrence of the Termination Date (as defined in the US Security Agreement), the Grantee shall promptly, upon such satisfaction, execute, acknowledge, and deliver to the Grantor all reasonably requested instruments in writing releasing the security interest in the Patents acquired under the US Security Agreement and this Confirmatory Grant.

(b) The Grantor hereby pledges and grants to the Grantee, on behalf of and for the benefit of the Secured Parties, a security interest in all of the Grantor's right, title and interest, wherever located and whether now owned or hereafter acquired, in and to (1) any and all patents and patent applications, including the Patents; (2) all inventions and improvements described and claimed therein; (3) all reissues, divisions, continuations, renewals, extensions, and continuations-in-part thereof; (4) all income, royalties, damages, claims, and payments now or hereafter due or payable under and with respect thereto, including, without limitation, damages and payments for past and future infringements thereof; (5) all rights to sue for past, present, and future infringements thereof; and (6) all rights corresponding to any of the foregoing throughout the world.

3. Governing Law. **THIS CONFIRMATORY GRANT SHALL BE CONSTRUED IN ACCORDANCE WITH AND GOVERNED BY THE LAW OF THE STATE OF NEW YORK.**

4. Notwithstanding anything to the contrary set forth herein, the priority of the Liens created hereby and the rights and remedies of the Collateral Trustee hereunder are subject to the terms and provisions of the Collateral Trust Agreement. In the event of any inconsistency between the provisions of this Confirmatory Grant and the Collateral Trust Agreement with

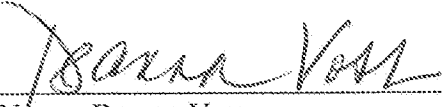
respect to the priority of the Liens created hereby and the rights and remedies of the Collateral Trustee, the provisions of the Collateral Trust Agreement shall supersede the provisions of this Confirmatory Grant. Any provision of this Confirmatory Grant to the contrary notwithstanding, the Grantor shall not be required to act or refrain from acting in a manner that is inconsistent with the terms and provisions of the Collateral Trust Agreement.

IN WITNESS WHEREOF, the Grantor has executed this Confirmatory Grant effective as of the date first written above.

ASTORA WOMEN'S HEALTH, LLC
AUXILIUM PHARMACEUTICALS, LLC
ENDO GENERICS HOLDINGS, INC.
ENDO PHARMACEUTICALS INC.
ENDO PHARMACEUTICALS SOLUTIONS INC.
PAR PHARMACEUTICAL, INC.
each, as a Grantor

By: 
Name: Deanna Voss
Title: Assistant Secretary

ASTORA WOMEN'S HEALTH HOLDINGS, LLC, as a
Grantor

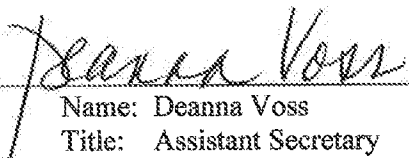
By: 

Name: Deanna Voss

Title: Assistant Secretary

AUXILIUM US HOLDINGS, LLC
as a Grantor

By: AUXILIUM PHARMACEUTICALS, LLC, as its
Manager

By: 
Name: Deanna Voss
Title: Assistant Secretary

Patents – United States registrations

Schedule A

No.	Title	App. No.	App. Date	Patent No.	Issue Date	Status	Owner
1.	Needless injection device components, systems, and methods	14493598	02/28/2017	9579462	09/23/2014	Issued	Astora Women's Health Holdings, LLC
2.	Method and apparatus for treating pelvic organ prolapse	12321546	01/22/2009	8211005	07/03/2012	Issued	Astora Women's Health, LLC*
3.	Method and apparatus for treating pelvic organ prolapse	12855792	08/13/2010	8206281	06/26/2012	Issued	Astora Women's Health, LLC*
4.	Methods and apparatus for monitoring battery charge depletion	12593787	09/29/2009	8200444	06/12/2012	Issued	Astora Women's Health, LLC
5.	Apparatus for treating stress and urge incontinence	11418790	05/05/2006	8195296	06/05/2012	Issued	Astora Women's Health, LLC
6.	Pelvic surgery drape	11986556	11/21/2007	8166977	5/1/2012	Issued	Astora Women's Health, LLC*
7.	Methods and apparatus for correction of urinary and gynecological pathologies, including treatment of male incontinence, and female cystocele	12346080	12/30/2008	8162814	4/24/2012	Issued	Astora Women's Health, LLC*
8.	Systems and methods for implanting tissue stimulation electrodes in the pelvic region	11775638	7/10/2007	8160710	4/17/2012	Issued	Astora Women's Health, LLC
9.	Method and apparatus for prolapse repair	12473747	5/28/2009	8109866	2/7/2012	Issued	Astora Women's Health, LLC*
10.	Surgical suture passers and methods	12586571	9/24/2009	8088131	1/3/2012	Issued	Astora Women's Health, LLC*
11.	Pelvic disorder treatment	12486492	6/17/2009	8083663	12/27/2011	Issued	Astora Women's Health, LLC#
12.	Method and apparatus for treatment of vaginal anterior repairs	11463654	8/10/2006	8062206	11/22/2011	Issued	Astora Women's Health, LLC*
13.	Implantable article and method	11983412	11/07/2007	8057382	11/15/2011	Issued	Astora Women's Health, LLC*
14.	Prolapse repair	12021092	1/28/2008	8038594	10/18/2011	Issued	Astora Women's Health, LLC
15.	Method and apparatus for cystocele repair	12059117	03/31/2008	7993261	08/09/2011	Issued	Astora Women's Health, LLC*
16.	Transobturator surgical articles and methods	11245364	10/05/2005	7988615	08/02/2011	Issued	Astora Women's Health, LLC*
17.	Sling assembly with secure and convenient attachment	11535018	9/25/2006	7972262	7/5/2011	Issued	Astora Women's Health, LLC
18.	Connector for mesh support insertion	11537891	10/2/2006	7909753	3/22/2011	Issued	Astora Women's Health,

No.	Title	App. No.	App. Date	Patent No.	Issue Date	Status	Owner
19.	Method for supporting vaginal cuff	11243802	10/5/2005	7901346	3/8/2011	Issued	Astora Women's Health, LLC
20.	Slings delivery system and method of use	11203136	08/15/2005	7867161	01/11/2011	Issued	Astora Women's Health, LLC
21.	Method of treating anal incontinence	11428090	6/30/2006	7828715	11/9/2010	Issued	Astora Women's Health, LLC*
22.	Articles, devices, and methods for pelvic surgery	12001836	12/13/2007	7811223	10/12/2010	Issued	Astora Women's Health, LLC*
23.	Method and apparatus for treating pelvic organ prolapse	11518932	09/12/2006	7811222	10/12/2010	Issued	Astora Women's Health, LLC*
24.	Implantable article for the treatment of incontinence	11166277	6/27/2005	7762942	7/27/2010	Issued	Astora Women's Health, LLC
25.	Articles, devices, and methods for pelvic surgery	11398368	4/5/2006	7740576	6/22/2010	Issued	Astora Women's Health, LLC
26.	Surgical implants and related methods	11115655	4/26/2005	7722527	5/25/2010	Issued	Astora Women's Health, LLC*
27.	Devices, methods, and systems for shrinking tissues	10866052	6/10/2004	7689290	3/30/2010	Issued	Astora Women's Health, LLC
28.	Surgical suture passers and methods	10155710	5/24/2002	7615059	11/10/2009	Issued	Astora Women's Health, LLC
29.	Pelvic disorder treatment device	10497397	03/23/2005	7613516	11/3/2009	Issued	Astora Women's Health, LLC#
30.	Surgical instruments for addressing pelvic disorders	10274524	10/17/2002	7037255	5/2/2006	Issued	Astora Women's Health, LLC
31.	Ribbed electrodes and methods for their use	10351245	1/23/2003	7004942	2/28/2006	Issued	Astora Women's Health, LLC
32.	Slings delivery system and method of use	10280341	10/25/2002	6971986	12/06/2005	Issued	Astora Women's Health, LLC
33.	Transobstrator surgical articles and methods	10377101	3/3/2003	6911003	6/28/2005	Issued	Astora Women's Health, LLC*
34.	Incontinence treatment device	10047135	01/15/2002	6896651	05/24/2005	Issued	Astora Women's Health, LLC
35.	Implantable article and method	10431719	5/8/2003	6884212	4/26/2005	Issued	Astora Women's Health, LLC*
36.	Powered bone screw device	10309669	12/04/2002	7087059	08/08/2006	Issued	Astora Women's Health, LLC#
37.	Surgical implant system and method	14777496	9/15/2015			Pending	Astora Women's Health, LLC#
38.	Implants, tools, and methods for treatments of pelvic conditions	14128991	4/1/2014			Pending	Astora Women's Health, LLC#
39.	Implants, tools, and methods for treatment of pelvic conditions	14115245	3/27/2014			Pending	Astora Women's Health, LLC#

No.	Title	App. No.	App. Date	Patent No.	Issue Date	Status	Owner
40.	Apparatus and methods of treatment of pathologic proliferative conditions uterine tissue	13383147	2/29/2012	8597262	12/3/2013	Issued	Astora Women's Health, LLC*
41.	Multi-levleed transgluteal tension-free levatorplasty for treatment of rectocele	12087552	7/9/2008	8585577	11/19/2013	Issued	Astora Women's Health, LLC*
42.	Sling delivery system and method of use	12984422	01/04/2011	8475357	07/02/2013	Issued	Astora Women's Health, LLC*
43.	Adjustable tension incontinence sling assemblies	12305874	06/30/2010	8460169	06/11/2013	Issued	Astora Women's Health, LLC
44.	Multi-zone stimulation implant system and method	12982657	12/30/2010	8380312	02/19/2013	Issued	Astora Women's Health, LLC
45.	Method of treating anal incontinence	12891941	9/28/2010	8371998	2/12/2013	Issued	Astora Women's Health, LLC *
46.	Incontinence treatment device	12138031	06/12/2008	8340786	12/25/2012	Issued	Astora Women's Health, LLC
47.	Method and apparatus for levator distension repair	12308083	04/10/2009	8262557	09/11/2012	Issued	Astora Women's Health, LLC*
48.	Tack device	10819560	04/07/2004	8241326	08/14/2012	Issued	Astora Women's Health, LLC
49.	Heating method for tissue contraction	10102596	3/19/2002	6882885	4/19/2005	Issued	Astora Women's Health, LLC
50.	Tissue anchor	13431594	3/27/2012	8774942	7/8/2014	Issued	Astora Women's Health, LLC
51.	Transobtrator methods for installing sling to treat incontinence, and related devices	13005238	1/12/2011	8771168	7/8/2014	Issued	Astora Women's Health, LLC
52.	Prolapse Repair	13235694	9/19/2011	8753260	6/17/2014	Issued	Astora Women's Health, LLC
53.	Implantable article and method	13252324	10/04/2011	8702586	04/22/2014	Issued	Astora Women's Health, LLC*
54.	Pelvic health implants and methods	11981597	10/31/2007	8702585	4/22/2014	Issued	Astora Women's Health, LLC*
55.	Methods and apparatus for correction of urinary and gynecological pathologies, including treatment of male incontinence, and female cystocele	13429947	03/26/2012	8684909	04/01/2014	Issued	Astora Women's Health, LLC*
56.	Pelvic implant and delivery system	13057186	2/2/2011	8678995	3/25/2014	Issued	Astora Women's Health, LLC*
57.	Methods and articles for treatment of rectal prolapse	11822793	07/10/2007	8672829	03/18/2014	Issued	Astora Women's Health, LLC
58.	Tack Device with Shield	11689806	03/22/2007	8672828	03/18/2014	Issued	Astora Women's Health, LLC
59.	Method for Supporting Vaginal Cuff	13023652	02/09/2011	8636643	01/28/2014	Issued	Astora Women's Health, LLC

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60.	Floating Sling for Treatment of Incontinence	11766202	6/21/2007	8617046	12/31/2013	Issued	Astora Women's Health, LLC
61.	Pelvic floor health articles and procedures	12215637	6/27/2008	8608641	12/17/2013	Issued	Astora Women's Health, LLC*
62.	Methods and apparatus for correction of urinary and gynecological pathologies, including treatment of male incontinence, and female cystocele	10625199	7/23/2003	7608036	10/27/2009	Issued	Astora Women's Health, LLC*
63.	Control of urge incontinence	10671144	09/24/2003	7582053	09/01/2009	Issued	Astora Women's Health, LLC
64.	Endo-pelvic fascia penetrating heating systems and methods for incontinence treatment	11040815	01/21/2005	7536225	05/19/2009	Issued	Astora Women's Health, LLC
65.	Implantable article and method	10873472	06/22/2004	7517313	04/14/2009	Issued	Astora Women's Health, LLC
66.	Method and apparatus for treating pelvic organ prolapse	10834943	04/30/2004	7500945	03/10/2009	Issued	Astora Women's Health, LLC
67.	Devices, methods, and systems for shrinking tissues	10463976	06/17/2003	7483755	01/27/2009	Issued	Astora Women's Health, LLC
68.	Electrically heated/phase change probe temperature control	10768778	1/30/2004	7476242	1/13/2009	Issued	Astora Women's Health, LLC
69.	Surgical articles and methods	10280945	10/25/2002	7048682	05/23/2006	Issued	Astora Women's Health, LLC
70.	Pelvic disorder treatment	09996668	11/29/2001	6862480	3/1/2005	Issued	Astora Women's Health, LLC
71.	Needle deployment for temperature sensing from an electrode	10211973	08/01/2002	6852110	02/08/2005	Issued	Astora Women's Health, LLC
72.	Medical sling procedures and anchor insertion methods and devices	09994276	11/26/2001	6592610	7/15/2003	Issued	Astora Women's Health, LLC
73.	Sling assembly with secure and convenient attachment	13115311	5/25/2011	8784295	7/22/2014	Issued	Astora Women's Health, LLC
74.	Surgical articles and methods for treating pelvic conditions	13758481	02/04/2013	8777837	7/15/2014	Issued	Astora Women's Health, LLC*
75.	Pelvic health implants and methods	11983430	11/07/2007	8777836	07/15/2014	Issued	Astora Women's Health, LLC*
76.	Method and apparatus for correction of urinary and gynecological pathologies, including treatment of incontinence cystocele	10423662	4/25/2003	7407480	8/5/2008	Issued	Astora Women's Health, LLC*
77.	Pelvic floor health articles and procedures	11413285	4/28/2006	7393320	7/1/2008	Issued	Astora Women's Health, LLC*
78.	Incontinence treatment device	10999824	11/30/2004	7387603	06/17/2008	Issued	Astora Women's Health, LLC*

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79.	Handle and surgical article	10739668	12/18/2003	7357773	04/15/2008	Issued	Astora Women's Health, LLC*
80.	Tack device with shield	10322891	12/18/2002	7226408	06/05/2007	Issued	Astora Women's Health, LLC
81.	Surgical instruments	11414484	05/01/2006	7223229	05/29/2007	Issued	Astora Women's Health, LLC
82.	Incontinence treatment with urethral guide	10798717	03/10/2004	7179219	02/20/2007	Issued	Astora Women's Health, LLC
83.	Energy induced bulking and buttressing of tissue for incontinence	10827887	04/19/2004	7167757	01/23/2007	Issued	Astora Women's Health, LLC
84.	Sling assembly with secure and convenient attachment	10616938	07/11/2003	7112171	9/26/2006	Issued	Astora Women's Health, LLC
85.	Implantable article for treatment of urinary incontinence	10616925	07/11/2003	7083568	08/01/2006	Issued	Astora Women's Health, LLC
86.	Transobturator surgical articles and methods	10306179	11/27/2002	7070556	7/4/2006	Issued	Astora Women's Health, LLC*
87.	Method and apparatus for cystocele repair	10840646	05/07/2004	7351197	04/01/2008	Issued	Astora Women's Health, LLC*
88.	Prolapse repair	10804718	03/19/2004	7347812	03/25/2008	Issued	Astora Women's Health, LLC
89.	Energy induced bulking and buttressing of tissues for incontinence	10828027	4/19/2004	7317949	1/8/2008	Issued	Astora Women's Health, LLC
90.	Non-surgical incontinence treatment system and method	10759732	1/15/2004	7315762	1/1/2008	Issued	Astora Women's Health, LLC
91.	Surgical article and methods for treating female urinary incontinence	10645588	08/22/2003	7303525	12/4/2007	Issued	Astora Women's Health, LLC
92.	Pelvic surgery drape	09749254	12/27/2000	7299803	11/27/2007	Issued	Astora Women's Health, LLC
93.	Surgical articles and methods	10675816	09/30/2003	7291104	11/06/2007	Issued	Astora Women's Health, LLC
94.	Surgical instrument and method	10616926	07/11/2003	7267645	09/11/2007	Issued	Astora Women's Health, LLC
95.	Heating method for tissue contraction	10768780	01/30/2004	7251531	07/31/2007	Issued	Astora Women's Health, LLC
96.	Pelvic floor implant system and method of assembly	10335119	12/31/2002	7229453	06/12/2007	Issued	Astora Women's Health, LLC
97.	Bone suturing device	10005760	11/12/2001	6843796	01/18/2005	Issued	Astora Women's Health, LLC
98.	Systems and methods using vasoconstriction for improved thermal treatment of tissues	10029000	12/20/2001	6840954	01/11/2005	Issued	Astora Women's Health, LLC
99.	Surgical instrument and method	09917445	07/27/2001	6802807	10/12/2004	Issued	Astora Women's Health, LLC

No.	Title	App. No.	App. Date	Patent No.	Issue Date	Status	Owner
100.	Tack device	09889068	07/06/2001	67301110	05/04/2004	Issued	Astora Women's Health, LLC
101.	Low power consumption implantable pressure sensor	10076869	02/15/2002	6712772	3/30/2004	Issued	Astora Women's Health, LLC
102.	Slings adjustment and tensioning accessory	09968239	10/01/2001	6702827	03/09/2004	Issued	Astora Women's Health, LLC
103.	Method for correction of urinary and gynecological pathologies including treatment of incontinence	10252179	09/23/2002	6691711	2/17/2004	Issued	Astora Women's Health, LLC
104.	Incontinence treatment with urethral guide	09991368	11/20/2001	6685623	02/03/2004	Issued	Astora Women's Health, LLC
105.	Implantable article and method for treating urinary incontinence using means for repositioning the implantable article	09917562	7/27/2001	6652450	11/25/2003	Issued	Astora Women's Health, LLC
106.	Control of urge incontinence	09806970	07/20/2001	6652449	11/25/2003	Issued	Astora Women's Health, LLC
107.	Implantable article	10004185	10/30/2001	6648921	11/18/2003	Issued	Astora Women's Health, LLC
108.	Slings assembly with secure and convenient attachment	09990108	11/21/2001	6641525	11/04/2003	Issued	Astora Women's Health, LLC
109.	Noninvasive devices, methods, and systems for shrinking of tissues	09768985	01/23/2001	6629535	10/7/2003	Issued	Astora Women's Health, LLC
110.	Implantable article and method	09939282	08/24/2001	6592515	07/15/2003	Issued	Astora Women's Health, LLC
111.	Devices, methods, and systems for shrinking tissues	09598076	06/20/2000	6587731	07/01/2003	Issued	Astora Women's Health, LLC
112.	Apparatus and methods for enhancing the functional longevity and for facilitating the implantation of medical devices	09749301	12/27/2000	6582443	6/24/2003	Issued	Astora Women's Health, LLC
113.	Slings delivery system and method of use	13903474	05/28/2013	8852077	10/07/2014	Issued	Astora Women's Health, LLC*
114.	Surgical implants, tools, and methods for treating pelvic conditions	12308436	10/29/2010	8834350	9/16/2014	Issued	Astora Women's Health, LLC*
115.	Articles, devices, and methods for pelvic surgery	12890095	09/24/2010	8801595	08/12/2014	Issued	Astora Women's Health, LLC*
116.	Method of treating anal incontinence	13746996	01/22/2013	8801593	08/12/2014	Issued	Astora Women's Health, LLC*
117.	Urinary incontinence diagnostic system	09851662	05/08/2001	6579266	06/17/2003	Issued	Astora Women's Health, LLC
118.	Medical sling procedures and anchor insertion methods and devices	10034960	12/27/2001	6575998	6/10/2003	Issued	Astora Women's Health, LLC
119.	Medical sling procedures and anchor	10034958	12/27/2001	6575984	06/10/2003	Issued	Astora Women's Health, LLC

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	insertion methods and devices						LLC
120.	Interspersed heating/cooling to shrink tissues for incontinence	09636795	08/11/2000	6572639	06/03/2003	Issued	Astora Women's Health, LLC
121.	Noninvasive devices, methods, and systems for shrinking of tissues	09765923	01/19/2001	6558381	05/06/2003	Issued	Astora Women's Health, LLC
122.	Tack device with shield	09684108	10/6/2000	6544273	4/8/2003	Issued	Astora Women's Health, LLC
123.	Ribbed electrodes and methods for their use	09925501	10/23/2000	6533780	3/18/2003	Issued	Astora Women's Health, LLC
124.	Noninvasive devices, methods, and systems for shrinking of tissues	08910775	8/13/1997	6480746	11/12/2002	Issued	Astora Women's Health, LLC
125.	Method for making an electrode balloon	09565995	05/06/2000	6468462	10/22/2002	Issued	Astora Women's Health, LLC
126.	Method and apparatus for treatment of vaginal anterior repairs	13247565	9/28/2011	8979732	3/17/2015	Issued	Astora Women's Health, LLC*
127.	Transobstrator surgical articles and methods	11346750	2/3/2006	8968178	3/3/2015	Issued	Astora Women's Health, LLC*
128.	Surgical needle and anchor system with retractable features	12606758	10/27/2009	8944990	2/3/2015	Issued	Astora Women's Health, LLC
129.	Implantable article and method	13873983	04/30/2013	8905912	12/09/2014	Issued	Astora Women's Health, LLC*
130.	Surgical articles and methods	11202315	8/12/2005	8864646	10/21/2014	Issued	Astora Women's Health, LLC
131.	Sling delivery system and method of use	09917443	7/27/2001	6612977	9/2/2003	Issued	Astora Women's Health, LLC
132.	Powered bone screw device	09776545	2/2/2001	6602260	8/5/2003	Issued	Astora Women's Health, LLC
133.	Transvaginal bone anchor implantation device	09742750	12/20/2000	6599235	07/29/2003	Issued	Astora Women's Health, LLC
134.	Device for alleviating urinary incontinence	09560946	4/28/2000	6461291	10/8/2002	Issued	Astora Women's Health, LLC
135.	Valve and methods for urinary control	09767208	1/22/2001	6443886	9/3/2002	Issued	Astora Women's Health, LLC
136.	Tack device	09475870	12/30/1999	6387041	5/14/2002	Issued	Astora Women's Health, LLC
137.	Implants, tools, and methods for treatments of pelvic conditions	13537612	6/29/2012	9351723	5/31/2016	Issued	Astora Women's Health, LLC*
138.	Implantable Sling Systems and Methods	13520125	09/13/2012	9345473	05/24/2016	Issued	Astora Women's Health, LLC
139.	Prolapse Repair	14306135	6/16/2014	9339366	05/17/2016	Issued	Astora Women's Health, LLC
140.	Pelvic floor treatments and related tools and implants	14263184	05/10/2016	9333065	04/28/2014	Issued	Astora Women's Health, LLC

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141.	Methods and systems for treatment of prolapse	14743259	06/18/2015	9283064	03/15/2016	Issued	Astora Women's Health, LLC*
142.	Tibial nerve stimulation device	14342592	5/6/2014	9265927	2/23/2016	Issued	Astora Women's Health, LLC
143.	Drug releasing pelvic treatment system and method	14000270	8/19/2013	9233238	1/12/2016	Issued	Astora Women's Health, LLC*
144.	Implantable article and method	14532576	11/4/2014	9211177	12/15/2015	Issued	Astora Women's Health, LLC*
145.	Implants, tools, and methods for treatment of pelvic conditions	14462154	08/18/2014	9179992	11/10/2015	Issued	Astora Women's Health, LLC*
146.	Apparatus and method for repairing vaginal reconstruction	13614012	09/13/2012	9149351	10/06/2015	Issued	Astora Women's Health, LLC*
147.	Bladder drug eluting device	13741918	1/15/2013	9061125	6/23/2015	Issued	Astora Women's Health, LLC*
148.	Methods and systems for treatment of prolapse	14025988	9/13/2013	9060839	6/23/2015	Issued	Astora Women's Health, LLC*
149.	Implantable article and method	14169586	1/31/2014	9022921	5/5/2015	Issued	Astora Women's Health, LLC*
150.	Pelvic floor treatments and related tools and implants	12678923	3/18/2010	8708885	4/29/2014	Issued	Astora Women's Health, LLC*
151.	Methods and systems for treatment of prolapse	11989256	2/24/2009	8535217	9/17/2013	Issued	Astora Women's Health, LLC*
152.	Transvaginal system and method for treating female urinary incontinence	09236212	1/23/1999	6328686	12/11/2001	Issued	Astora Women's Health, LLC
153.	Temperature sensing devices and methods to shrink tissues	09170765	10/13/1998	6322584	11/27/2001	Issued	Astora Women's Health, LLC
154.	Endopelvic fascia treatment for incontinence	09413100	10/6/1999	6292700	9/18/2001	Issued	Astora Women's Health, LLC
155.	Limited heat transfer devices and methods to shrink tissues	09170470	10/13/1998	6236891	5/22/2001	Issued	Astora Women's Health, LLC
156.	Noninvasive devices, methods, and systems for shrinking of tissues	09133496	8/12/1998	6216704	4/17/2001	Issued	Astora Women's Health, LLC
157.	Valve and methods for urinary control	09034250	3/4/1998	6200261	3/13/2001	Issued	Astora Women's Health, LLC
158.	Device for alleviating urinary incontinence	08984976	12/04/1997	6056687	5/2/2000	Issued	Astora Women's Health, LLC
159.	Tuck and fold fascia shortening for incontinence	09103352	06/23/1998	6044847	4/4/2000	Issued	Astora Women's Health, LLC
160.	System and a method for the long term cure of recurrent urinary female incontinence	09111525	07/08/1998	6039686	03/21/2000	Issued	Astora Women's Health, LLC
161.	Noninvasive devices, methods, and systems for shrinking of tissues	08910369	08/13/1997	6035238	03/07/2000	Issued	Astora Women's Health, LLC

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162.	Kit For Levator Avulsion Repair	12594408	6/25/2010	8550980	10/8/2013	Issued	Astora Women's Health, LLC*
163.	Suture-less Tissue Fixation for Implantable Device	12983077	12/31/2010	9393091	07/19/2016	Issued	Astora Women's Health, LLC
164.	Adjustable tension incontinence sling assemblies	14153717	01/13/2014	9375302	06/28/2016	Issued	Astora Women's Health, LLC*
165.	Implant Systems with Tensioning Feedback	13520068	9/13/2012	9364308	6/14/2016	Issued	Astora Women's Health, LLC
166.	Electrical stimulation device having remote access	14352597	4/17/2014	9114261	8/25/2015	Issued	Astora Women's Health, LLC
167.	Tibial nerve stimulation therapy device calibration	14085320	11/20/2013	9084897	7/21/2015	Issued	Astora Women's Health, LLC
168.	Method and articles for treatment of stress urinary incontinence	12227426	4/15/2009	9084664	7/21/2015	Issued	Astora Women's Health, LLC*
169.	Patterned sling implant and method	12964502	12/9/2010	9060837	6/23/2015	Issued	Astora Women's Health, LLC
170.	PATTERNED IMPLANT AND METHOD	12953268	11/23/2010	9060836	6/23/2015	Issued	Astora Women's Health, LLC
171.	Collapsible Tissue Anchor Device and Method	12468754	5/19/2009	9017382	4/28/2015	Issued	Astora Women's Health, LLC
172.	Minimally Invasive Implant and Method	13335472	12/22/2011	9017243	4/28/2015	Issued	Astora Women's Health, LLC
173.	LEVATOR FOR REPAIR OF PERINEAL PROLAPSE	12087534	7/9/2008	8992414	3/31/2015	Issued	Astora Women's Health, LLC*
174.	MINIMALLY INVASIVE IMPLANT AND METHOD	13060467	5/4/2011	8968181	3/3/2015	Issued	Astora Women's Health, LLC*
175.	Surgical Articles and Methods for Treating Pelvic Conditions	12467634	5/18/2009	8951185	2/10/2015	Issued	Astora Women's Health, LLC
176.	Minimally invasive levator avulsion repair	12994982	11/29/2010	8708887	4/29/2014	Issued	Astora Women's Health, LLC*
177.	Adjustable tension incontinence sling assemblies	12308598	7/26/2010	8628463	1/14/2014	Issued	Astora Women's Health, LLC*
178.	Pelvic floor treatments and related tools and implants	12669099	5/13/2010	8597173	12/3/2013	Issued	Astora Women's Health, LLC*
179.	Electrical stimulation device having remote access	14801972	7/17/2015			Pending	Astora Women's Health, LLC
180.	Method and articles for treatment of stress urinary incontinence	14801288	7/16/2015			Pending	Astora Women's Health, LLC*
181.	Implants, tools, and methods for treatments of pelvic conditions	14795508	7/9/2015			Pending	Astora Women's Health, LLC*
182.	Vaginal dilator/manipulator	14776067	9/14/2015			Pending	Astora Women's Health, LLC
183.	Implants, tools, and methods for	14775203	9/11/2015			Pending	Astora Women's Health, LLC

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184.	treatments of pelvic conditions Systems, tools, and methods for connecting to tissue	14775188	9/11/2015			Pending	Astora Women's Health, LLC*
185.	Implants, tools, and methods for treating pelvic conditions	14775183	9/11/2015			Pending	Astora Women's Health, LLC*
186.	Tibial nerve stimulation therapy device calibration	14750258	6/25/2015			Pending	Astora Women's Health, LLC
187.	Patterned Slings Implant and Method	14746694	6/22/2015			Pending	Astora Women's Health, LLC
188.	Patterned Implant and Method	14746653	06/22/2015			Pending	Astora Women's Health, LLC
189.	Minimally Invasive Implant and Method	14697525	04/27/2015			Pending	Astora Women's Health, LLC
190.	Collapsible Tissue Anchor Device and Method	14696479	4/26/2015			Pending	Astora Women's Health, LLC
191.	Levator for repair of perineal prolapse	14673213	3/30/2015			Pending	Astora Women's Health, LLC*
192.	Minimally invasive implant and method	14627537	2/20/2015			Pending	Astora Women's Health, LLC*
193.	Surgical Articles and Methods for Treating Pelvic Conditions	14617789	2/9/2015			Pending	Astora Women's Health, LLC
194.	Pelvic floor health articles and procedures	14582311	12/24/2014			Pending	Astora Women's Health, LLC*
195.	Conductive and degradable implant for pelvic tissue treatment	14432390	03/30/2015			Pending	Astora Women's Health, LLC*
196.	Pelvic implant and treatment method	14346383	3/21/2014			Pending	Astora Women's Health, LLC
197.	Surgical needle system with anchor retention features	14343843	3/7/2014			Pending	Astora Women's Health, LLC
198.	Implantable electrode assembly	14343276	3/6/2014			Pending	Astora Women's Health, LLC
199.	Adjustable sling and method of treating pelvic conditions	14266791	4/30/2014			Pending	Astora Women's Health, LLC
200.	Minimally invasive levator avulsion repair	14262997	04/28/2014			Pending	Astora Women's Health, LLC*
201.	Pelvic health implants and methods	14257475	4/21/2014			Pending	Astora Women's Health, LLC*
202.	Implants, tools, and methods for treatments of pelvic conditions	14232043	01/10/2014			Pending	Astora Women's Health, LLC*
203.	Vaginal laxity therapy utilizing cell-based bulking compositons	14170305	01/31/2014			Pending	Astora Women's Health, LLC*
204.	Method for supporting vaginal cuff	14164462	01/27/2014			Pending	Astora Women's Health, LLC*

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205.	Implant Tissue Fixation System and Method	14148459	1/6/2014			Pending	Astora Women's Health, LLC
206.	Pelvic floor treatments and related tools and implants	14081728	11/15/2013			Pending	Astora Women's Health, LLC*
207.	Adjustable suture restriction system and method	14061580	10/23/2013			Pending	Astora Women's Health, LLC
208.	Adjustable Pessary Device and Method	14056805	10/17/2013			Pending	Astora Women's Health, LLC
209.	Kit for levator avulsion repair	14041774	9/30/2013			Pending	Astora Women's Health, LLC*
210.	Rectal Prolapse Treatment Methods, Devices, and Systems	14025748	9/12/2013			Pending	Astora Women's Health, LLC
211.	Implants, tools, and methods for treatment of pelvic conditions	14008208	11/26/2013			Pending	Astora Women's Health, LLC*
212.	Implants, tools, and methods for treatment of pelvic conditions	14008170	11/26/2013			Pending	Astora Women's Health, LLC*
213.	Film Encapsulated Pelvic Implant System and Method	14007646	11/15/2013			Pending	Astora Women's Health, LLC
214.	Implants, tools, and methods for treatments of pelvic conditions	14006875	4/14/2014			Pending	Astora Women's Health, LLC*
215.	Micro-needle bladder balloon	13993752	8/26/2013			Pending	Astora Women's Health, LLC*
216.	Surgical tools, systems, and related implants and methods	13990017	05/28/2013			Pending	Astora Women's Health, LLC
217.	Perineum overlay device	13965815	08/13/2013			Pending	Astora Women's Health, LLC
218.	Systems, tools, and methods for treatments of pelvic conditions	13876034	03/26/2013			Pending	Astora Women's Health, LLC*
219.	Surgical Needle Device	13846139	03/18/2013			Pending	Astora Women's Health, LLC
220.	Systems, tools, and methods for connecting to tissue	13832319	3/15/2013			Pending	Astora Women's Health, LLC
221.	Systems, tools, and methods for treatments of pelvic conditions	13825997	03/26/2013			Pending	Astora Women's Health, LLC*
222.	Surgical cutting instrument and related methods	13664915	10/31/2012			Pending	Astora Women's Health, LLC*
223.	Implants with absorbable and non-absorbable features for the treatment of female pelvic conditions	13877695	4/4/2013			Issued	Astora Women's Health, LLC*
224.	Transobstrator surgical articles and methods	14518159	10/20/2014			Issued	Astora Women's Health, LLC*
225.	Deployable electrode lead anchor	13167541	06/23/2011	9427573	08/30/2016	Issued	Astora Women's Health, LLC

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226.	Bioabsorbable mesh for surgical implants	14673253	3/30/2015	9421079	8/23/2016	Issued	Astora Women's Health, LLC*
227.	Pelvic Implant System and Method	13556167	7/23/2012	9414903	8/16/2016	Issued	Astora Women's Health, LLC
228.	Electronic stimulator device pulse generator circuit	13547530	07/12/2012	9399135	07/26/2016	Issued	Astora Women's Health, LLC
229.	Electrode lead including a deployable tissue anchor	13490600	6/7/2012	9220887	12/29/2015	Issued	Astora Women's Health, LLC
230.	Electrical stimulation device having multiple stimulation channels	14352594	4/17/2014	9180294	11/10/2015	Issued	Astora Women's Health, LLC
231.	Surgical articles and methods for treating pelvic conditions	12223846	6/7/2010	9144426	9/29/2015	Issued	Astora Women's Health, LLC*
232.	Implants, tools, and methods for treatment of pelvic conditions	13432624	3/28/2012	9089393	7/28/2015	Issued	Astora Women's Health, LLC*
233.	Bioabsorbable mesh for surgical implants	13579491	9/25/2012	8992411	3/31/2015	Issued	Astora Women's Health, LLC*
234.	Transobuturator surgical articles and methods	13236287	9/19/2011	8864648	10/21/2014	Issued	Astora Women's Health, LLC
235.	Surgical articles and methods for treating pelvic conditions	12447073	2/12/2010	8517914	8/27/2013	Issued	Astora Women's Health, LLC*
236.	Electrode lead including a deployable tissue anchor	14947502	11/20/2015			Pending	Astora Women's Health, LLC
237.	Implants, tools, and methods for treatment of pelvic conditions	14932584	11/4/2015			Pending	Astora Women's Health, LLC
238.	Transobuturator methods for installing sling to treat incontinence, and related devices	14932410	11/4/2015			Pending	Astora Women's Health, LLC
239.	Electrical stimulation device having multiple stimulation channels	14878222	10/08/2015			Pending	Astora Women's Health, LLC
240.	Apparatus and method for repairing vaginal reconstruction	14867593	9/28/2015			Pending	Astora Women's Health, LLC*
241.	Surgical articles and methods for treating pelvic conditions	14843317	9/2/2015			Pending	Astora Women's Health, LLC*
242.	Pelvic Implant Needle System and Method	14811834	7/29/2015			Pending	Astora Women's Health, LLC
243.	Implants, tools, and methods for treatment of pelvic conditions	14807382	7/23/2015			Pending	Astora Women's Health, LLC*
244.	Pelvic Implant Sizing Systems and Methods	13652145	10/15/2012			Pending	Astora Women's Health, LLC
245.	Pelvic Implant Needle System and Method	13602857	9/4/2012			Pending	Astora Women's Health, LLC
246.	Surgical articles and methods for treating pelvic conditions	13595287	08/27/2012			Pending	Astora Women's Health, LLC*

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247.	Pelvic Implant System and Method	13568093	8/6/2012			Pending	Astora Women's Health, LLC
248.	Devices, systems, and related methods for delivery of fluid to tissue	13554176	07/20/2012			Pending	Astora Women's Health, LLC*
249.	Systems, implants, tools, and methods for treatments of pelvic conditions	13537977	6/29/2012			Pending	Astora Women's Health, LLC*
250.	Elongate Implant System and Method for Treating Pelvic Conditions	13520138	06/29/2012			Pending	Astora Women's Health, LLC
251.	Systems, implants, tools, and methods for treatments of pelvic conditions	13519492	1/3/2013			Pending	Astora Women's Health, LLC*
252.	Surgical needle device	29530998	06/22/2015	D775729	01/03/2017	Issued	Astora Women's Health, LLC
253.	Surgical indicators	29511190	12/08/2014	D746462	12/29/2015	Issued	Astora Women's Health, LLC
254.	Surgical indicator with backers	29401193	09/08/2011	D736382	08/11/2015	Issued	Astora Women's Health, LLC
255.	Surgical needle device	29450457	03/18/2013	D733298	06/30/2015	Issued	Astora Women's Health, LLC
256.	Surgical indicators	29401196	09/08/2011	D721807	01/27/2015	Issued	Astora Women's Health, LLC
257.	Backers for surgical indicators	29401194	09/08/2011	D721175	01/13/2015	Issued	Astora Women's Health, LLC
258.	Implant	29450446	03/18/2013	D705427	05/20/2014	Issued	Astora Women's Health, LLC
259.	Implant	29450472	03/18/2013	D696780	12/31/2013	Issued	Astora Women's Health, LLC
260.	Implant	29450454	03/18/2013	D694887	12/03/2013	Issued	Astora Women's Health, LLC
261.	Implant	29422909	05/24/2012	D694886	12/03/2013	Issued	Astora Women's Health, LLC
262.	Implant	29422988	05/25/2012	D685476	07/02/2013	Issued	Astora Women's Health, LLC
263.	Implant	29422901	05/24/2012	D681813	05/07/2013	Issued	Astora Women's Health, LLC
264.	Implant	29423014	05/25/2012	D680649	04/23/2013	Issued	Astora Women's Health, LLC
265.	Anatomic Female Pelvic Model	29319601	06/11/2008	D607936	01/12/2010	Issued	Astora Women's Health, LLC
266.	Handle for a surgical instrument	29195937	12/18/2003	D543626	05/29/2007	Issued	Astora Women's Health, LLC
267.	Handle for a surgical instrument	29179866	04/15/2003	D534650	01/02/2007	Issued	Astora Women's Health, LLC
268.	Surgical articles and methods for treating	14298471	06/06/2014	9585739	03/07/2017	Issued	Astora Women's Health, LLC

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269.	pelvic conditions Implantable Slings and Anchor Systems	13334002	12/21/2011	9572648	02/21/2017	Issued	Astora Women's Health, LLC
270.	Surgical Articles and Methods	14497892	09/26/2014	9554884	01/31/2017	Issued	Astora Women's Health, LLC
271.	Electrode implantation in a pelvic floor muscular structure	12406434	03/18/2009	9539433	01/10/2017	Issued	Astora Women's Health, LLC
272.	Tools and methods for treatment of pelvic conditions	14115239	12/05/2013	9510825	12/06/2016	Issued	Astora Women's Health, LLC
273.	Expandable Implant System	13435057	03/30/2012	9492259	11/15/2016	Issued	Astora Women's Health, LLC
274.	Tools and methods for treatment of pelvic conditions	13566613	08/03/2012	9492191	11/15/2016	Issued	Astora Women's Health, LLC*
275.	Implants, tools, and methods for treatments of pelvic conditions	13763296	02/08/2013	9192458	11/24/2015	Issued	Astora Women's Health, LLC
276.	Surgical articles and methods for treating pelvic conditions	12309170	06/21/2010	8932201	01/13/2015	Issued	Astora Women's Health, LLC
277.	Surgical articles and methods for treating pelvic conditions	12446492	10/27/2010	8388514	03/05/2013	Issued	Astora Women's Health, LLC*
278.	Continence augmentor and methods for urinary control	09126670	07/30/1998	6030337	02/29/2000	Issued	Astora Women's Health, LLC
279.	IMPLANTS, TOOLS, AND METHODS FOR TREATMENTS OF PELVIC CONDITIONS	14946068	11/19/2015			Pending	Astora Women's Health, LLC
280.	Systems, implants, tools, and methods for treatments of pelvic conditions	14573859	12/17/2014			Pending	Astora Women's Health, LLC
281.	Surgical articles and methods for treating pelvic conditions	14563567	12/08/2014			Pending	Astora Women's Health, LLC
282.	Surgical implants, tools, and methods for treating pelvic conditions	14462140	08/18/2014			Pending	Astora Women's Health, LLC*
283.	Releasably securable needle and handle system and method	14377149	08/06/2014			Pending	Astora Women's Health, LLC
284.	Pelvic Implants having Perimeter Imaging Features	13520029	06/29/2012			Pending	Astora Women's Health, LLC
285.	Implants, tools, and methods for treatment of pelvic conditions	13432652	03/28/2012			Pending	Astora Women's Health, LLC
286.	Treatment of a pelvic condition through indirect electrical stimulation	13201828	08/16/2011			Pending	Astora Women's Health, LLC
287.	Connector for Mesh Support Insertion	13034842	02/25/2011			Pending	Astora Women's Health, LLC
288.	Surgical articles and methods for treating pelvic conditions	12666953	10/01/2010			Pending	Astora Women's Health, LLC

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289.	Electrode Sling for Treating Stress and Urge Incontinence	12281075	10/20/2008			Pending	Astora Women's Health, LLC
290.	Pelvic floor implant system and method of assembly	11755422	05/30/2007			Pending	Astora Women's Health, LLC
291.	Compositions and methods for treating collagen-mediated diseases	15160392	5/20/2016			Pending	Auxilium Pharmaceuticals, Inc. #
292.	Stabilized compositions containing alkaline labile drugs	13463375	05/03/2012	8883187	11/11/2014	Issued	Auxilium US Holdings, LLC
293.	Process for the preparation of a hot-melt extruded laminate	12294372	09/24/2008	8465759	06/18/2013	Issued	Auxilium US Holdings, LLC
294.	Stabilized compositions containing alkaline labile drugs	12294367	09/24/2008	8173152	05/08/2012	Issued	Auxilium US Holdings, LLC
295.	Delivery vehicle composition and methods for delivering antigens and other drugs	09888235	06/22/2001	7767197	8/3/2010	Issued	Endo Pharmaceuticals Colorado, Inc. ¹
296.	Particulate drug-containing products and method of manufacture	10717429	11/19/2001	7125566	10/24/2006	Issued	Endo Pharmaceuticals Colorado, Inc. ²
297.	Composition for delivery of hematopoietic growth factor	09893339	6/26/2001	6875441	4/5/2005	Issued	Endo Pharmaceuticals Colorado, Inc. ³
298.	Particulate insulin-containing products and method of manufacture	09469733	12/21/1999	6761909	7/13/2004	Issued	Endo Pharmaceuticals Colorado, Inc. ⁴
299.	Treatment of mucositis	09993383	11/21/2001	6685917	2/3/2004	Issued	Endo Pharmaceuticals Colorado, Inc. ⁵
300.	Particulate drug-containing products and method of manufacture	09740573	12/18/2000	6669960	12/30/2003	Issued	Endo Pharmaceuticals Colorado, Inc. ⁶
301.	Methods for use of delivery composition for expanding, activating, committing or mobilizing one or more pluripotent, self-	09893372	06/26/2001	6649189	11/18/2003	Issued	Endo Pharmaceuticals Colorado, Inc. ⁷ and Board of Regents of the

¹ Former name of Endo Pharmaceuticals, Inc.

² Former name of Endo Pharmaceuticals, Inc.

³ Former name of Endo Pharmaceuticals, Inc.

⁴ Former name of Endo Pharmaceuticals, Inc.

⁵ Former name of Endo Pharmaceuticals, Inc.

⁶ Former name of Endo Pharmaceuticals, Inc.

⁷ Former name of Endo Pharmaceuticals, Inc.

No.	Title	App. No.	App. Date	Patent No.	Issue Date	Status	Owner
	renewing and committed stem cells						University of Nebraska
302.	Sustained release formulations of nalbuphine	11509347	08/24/2006	8771732	7/8/2014	Issued	Endo Pharmaceuticals Inc
303.	Sustained release formulation of nalbuphine	13773136	02/21/2013	8765175	07/01/2014	Issued	Endo Pharmaceuticals Inc
304.	Sustained release matrix systems for highly soluble drugs	11729024	03/27/2007	8679535	03/25/2014	Issued	Endo Pharmaceuticals Inc
305.	Sustained release formulations of nalbuphine	12154496	5/23/2008	8394812	3/12/2013	Issued	Endo Pharmaceuticals Inc
306.	Chronotherapeutic dosage forms and methods of treatment using chronotherapy	12985137	01/05/2011				Endo Pharmaceuticals Inc
307.	Intradermal-penetration agents for topical local anesthetic administration	10201901	07/25/2002	6746689	6/8/2004	Issued	Endo Pharmaceuticals Inc
308.	Sustained release formulation of nalbuphine	14290413	5/29/2014	9351938	5/31/2016	Issued	Endo Pharmaceuticals Inc
309.	Sustained release matrix systems for highly soluble drugs	14195127	03/03/2014			Pending	Endo Pharmaceuticals Inc
310.	Intradermal-penetration agents for topical local anesthetic administration	09523652	03/10/2000	6455066	09/24/2002	Issued	Endo Pharmaceuticals Inc.
311.	Treatment of xerostomia	11605983	11/29/2006	7501452	3/10/2009	Issued	Endo Pharmaceuticals Inc.
312.	Sustained release formulations of oxymorphone	10189932	07/03/2002	7276250	10/02/2007	Issued	Endo Pharmaceuticals Inc.
313.	Method of forming adhesive patch for applying medication to the skin	09629783	07/31/2000	6361790	03/26/2002	Issued	Endo Pharmaceuticals Inc.
314.	Method of treating pain utilizing controlled release oxymorphone pharmaceutical compositions and instruction on dosing for renal impairment	12716973	3/3/2010	8808737	8/19/2014	Issued	Endo Pharmaceuticals Inc.
315.	Oxymorphone controlled release formulations	11427438	06/29/2006	8329216	12/11/2012	Issued	Endo Pharmaceuticals Inc.
316.	Oxymorphone controlled release formulations	11680432	2/28/2007	8309122	11/13/2012	Issued	Endo Pharmaceuticals Inc.
317.	Analgesic drug composition containing a capsaicinoid and potentiator therefor	09441268	11/16/1999	6277398	8/21/2001	Issued	Endo Pharmaceuticals Inc.
318.	Anticonvulsant containing composition	09253598	2/22/1999	6187338	2/13/2001	Issued	Endo Pharmaceuticals Inc.

No.	Title	App. No.	App. Date	Patent No.	Issue Date	Status	Owner
	for treating neuropathic pain						
319.	Analgesic composition and method for alleviating pain	09063754	04/21/1998	6054451	4/25/2000	Issued	Endo Pharmaceuticals Inc.
320.	Analgesic composition and method for treating pain	09042248	3/13/1998	6007841	12/28/1999	Issued	Endo Pharmaceuticals Inc.
321.	Method and composition for treating migraine	09226297	1/7/1999	6043244	3/28/2000	Issued	Endo Pharmaceuticals Inc.
322.	Method of treating pain utilizing controlled release oxymorphone pharmaceutical compositions and instruction on dosing for renal impairment	14336753	7/21/2014			Pending	Endo Pharmaceuticals Inc.
323.	Implantation device for subcutaneous implantation of an object under the skin	12415681	3/31/2009	7850639	12/14/2010	Issued	Endo Pharmaceuticals Solutions Inc.
324.	Methods for making 2-(7-chloro-1,8-naphthyridine-2-yl)-3-(5-methyl-2-oxo-hexyl)-1-isoidolone	11206144	08/18/2005	7057047	06/06/2006	Issued	Endo Pharmaceuticals Solutions Inc.
325.	Sulfonic acid and aldehyde condensation polymers for the treatment and prevention of hpv	12393778	2/26/2009	8604086	12/10/2013	Issued	Endo Pharmaceuticals Solutions Inc.
326.	Controlled release formulations of octreotide	12814293	6/11/2010	8507432	8/13/2013	Issued	Endo Pharmaceuticals Solutions Inc.
327.	A method of manufacturing an implantable device	12844357	7/27/2010	8475820	7/2/2013	Issued	Endo Pharmaceuticals Solutions Inc.
328.	Octreotide implant having a release agent	13098138	04/29/2011	8383577	2/26/2013	Issued	Endo Pharmaceuticals Solutions Inc.
329.	Combination treatment for bladder cancer	12397831	3/4/2009	8273721	9/25/2012	Issued	Endo Pharmaceuticals Solutions Inc.
330.	Methods and compositions for alleviating stuttering	12973515	12/20/2010	8242132	8/14/2012	Issued	Endo Pharmaceuticals Solutions Inc.
331.	An implantable device for the sustained release of a polypeptide	12490971	6/24/2009	8071537	12/6/2011	Issued	Endo Pharmaceuticals Solutions Inc.
332.	Compositions and methods for treating precocious puberty	11155822	6/17/2005	8062652	11/22/2011	Issued	Endo Pharmaceuticals Solutions Inc.
333.	Octreotide implant having a release agent and uses thereof	12490979	6/24/2009	7960335	6/14/2011	Issued	Endo Pharmaceuticals Solutions Inc.
334.	METHODS AND COMPOSITIONS FOR ALLEVIATING STUTTERING	11046706	2/1/2005	7858638	12/28/2010	Issued	Endo Pharmaceuticals Solutions Inc.
335.	Method of manufacturing an implantable device	13897895	5/20/2013	9072786	7/7/2015	Issued	Endo Pharmaceuticals Solutions Inc.
336.	IMPLANTING DEVICE	29179382	4/9/2003	D492995	7/13/2004	Issued	Endo Pharmaceuticals Solutions Inc.
337.	IMPLANT DEVICE RELEASE AGENTS AND METHODS OF USING	12109852	04/25/2008	9120249	09/01/2015	Issued	Endo Pharmaceuticals Solutions Inc.

No.	Title	App. No.	App. Date	Patent No.	Issue Date	Status	Owner
338.	SAME Methods and compositions for alleviating stuttering	13489516	06/06/2012	8618127	12/31/2013	Issued	Endo Pharmaceuticals Solutions Inc.
339.	Controlled release formulations of octreotide	12240690	09/29/2008	7803773	09/28/2010	Issued	Endo Pharmaceuticals Solutions Inc.
340.	Delivery of dry formulations of octreotide	12171999	07/11/2008	7759312	07/20/2010	Issued	Endo Pharmaceuticals Solutions Inc.
341.	Method of inserting an object under the skin	11531311	09/13/2006	7510549	03/31/2009	Issued	Endo Pharmaceuticals Solutions Inc.
342.	Controlled release formulations of octreotide	11372749	03/10/2006	7452868	11/18/2008	Issued	Endo Pharmaceuticals Solutions Inc.
343.	Method for making 2-(7-chloro-1,8-naphthyridine-2-yl)-3-(5-methyl-2-oxo-hexyl)-1-isoindolinone	11411952	04/27/2006	7304158	12/04/2007	Issued	Endo Pharmaceuticals Solutions Inc.
344.	Implanting device and method of using same	10406397	04/03/2003	7214206	05/08/2007	Issued	Endo Pharmaceuticals Solutions Inc.
345.	Methods and compositions for alleviating stuttering	09628803	7/28/2000	6855721	2/15/2005	Issued	Endo Pharmaceuticals Solutions Inc.
346.	Sulfonic acid and aldehyde condensation polymers for preventing pregnancy	08847019	5/1/1997	5958399	9/28/1999	Issued	Endo Pharmaceuticals Solutions Inc.
347.	Methods for making 2-(7-chloro-1,8-naphthyridine-2-yl)-3-(5-methyl-2-oxo-hexyl)-1-isoindolinone	10400780	03/27/2003	6949653	09/27/2005	Issued	Endo Pharmaceuticals Solutions Inc.#
348.	Hydrogel compositions useful for the sustained release of macromolecules and methods of making same	09646066	12/7/2000	6361797	3/26/2002	Issued	Endo Pharmaceuticals Solutions Inc.
349.	USE OF PAGOCLOLONE FOR THE TREATMENT OF SOCIAL ANXIETY DISORDER	11352286	2/13/2006	7553847	6/30/2009	Issued	Endo Pharmaceuticals Solutions Inc.#
350.	METHODS OF TREATING OBSESSIVE-COMPULSIVE DISORDER	10133471	4/25/2002	7026332	4/11/2006	Issued	Endo Pharmaceuticals Solutions Inc.#
351.	High-concentration protein formulations and method of manufacture	10271832	10/16/2002	8372798	2/12/2013	Issued	Endo Pharmaceuticals Inc.
352.	Method for making analgesics	11866840	10/3/2007	7851482	12/14/2010	Issued	Endo Pharmaceuticals, Inc.
353.	Oxymorphone controlled release formulations	10190192	7/3/2002			Pending	Endo Pharmaceuticals, Inc.
354.	Sequential benzylic oxidations of the naloxone ring system	09520099	3/7/2000	6166211	12/26/2000	Issued	Endo Pharmaceuticals, Inc.
355.	Crystalline, anhydrous forms of oxymorphone hydrochloride	14613421	2/4/2015	9440986	9/13/2016	Issued	Endo Pharmaceuticals, Inc.
356.	Sustained release formulation of nalbuphine	14319833	6/30/2014	9186330	11/17/2015	Issued	Endo Pharmaceuticals, Inc.

No.	Title	App. No.	App. Date	Patent No.	Issue Date	Status	Owner
357.	Crystalline, anhydrous forms of oxymorphone hydrochloride	14091399	11/27/2013	8969368	3/3/2015	Issued	Endo Pharmaceuticals, Inc.
358.	Methods for identifying compounds capable of supplementing the biological activity of leptin	10245616	09/17/2002	6953670	10/11/2005	Issued	Indevus Pharmaceuticals, Inc. ⁸
359.	Flocculated suspension of megestrol acetate	10136823	4/30/2002	6593320	7/15/2003	Issued	Par Pharmaceutical Companies, Inc. ⁹
360.	Flocculated Suspension Of Megestrol Acetate	09757261	1/9/2001	6593318	7/15/2003	Issued	Par Pharmaceutical Companies, Inc. ¹⁰
361.	Flocculated suspension of megestrol acetate	09416841	10/12/1999	6268356	7/31/2001	Issued	Par Pharmaceutical Companies, Inc. ¹¹
362.	Flocculated suspension of megestrol acetate	09063241	4/20/1998	6028065	2/22/2000	Issued	Par Pharmaceutical Companies, Inc. ¹²
363.	Epinephrine formulations	14818121	8/4/2015	9295657	03/29/2016	Issued	Par Pharmaceutical, Inc
364.	Epinephrine formulations	14657990	03/13/2015	9119876	09/01/2015	Issued	Par Pharmaceutical, Inc
365.	Use of Megestrol Acetate for Improving Heart Function and the Treatment of Heart Insufficiency	14956907	12/2/2015			Pending	Par Pharmaceutical, Inc
366.	Cyanocobalamin low viscosity aqueous formulations for intranasal delivery	14485228	9/12/2014	9415007	8/16/2016	Issued	Par Pharmaceutical, Inc.
367.	Vitamin B12 nasal spray and method of use	12618099	11/13/2009	9186374	11/17/2015	Issued	Par Pharmaceutical, Inc.
368.	Cyanocobalamin low viscosity aqueous formulations for intranasal delivery	13189061	7/22/2011	8940714	1/27/2015	Issued	Par Pharmaceutical, Inc.
369.	System and method for sorting data	13185599	7/19/2011	8620596	12/31/2013	Issued	Par Pharmaceutical, Inc.
370.	Nasal calcitonin formulations containing chlorobutanol	13371037	2/10/2012	8486891	7/16/2013	Issued	Par Pharmaceutical, Inc.
371.	Use of Megestrol Acetate for Improving Heart Function and the Treatment of Heart Insufficiency	11667899	9/24/2007	8383612	2/26/2013	Issued	Par Pharmaceutical, Inc.
372.	Nasal calcitonin formulations containing chlorobutanol	12878936	09/09/2010	8138149	3/20/2012	Issued	Par Pharmaceutical, Inc.

⁸ Former name of Endo Pharmaceuticals Solutions, Inc.

⁹ Former name of Endo Generics Holdings, Inc.

¹⁰ Former name of Endo Generics Holdings, Inc.

¹¹ Former name of Endo Generics Holdings, Inc.

¹² Former name of Endo Generics Holdings, Inc.

No.	Title	App. No.	App. Date	Patent No.	Issue Date	Status	Owner
373.	Cyanocobalamin low viscosity aqueous formulations for intranasal delivery	12142240	6/19/2008	8003353	8/23/2011	Issued	Par Pharmaceutical, Inc.
374.	System and method for sorting data	12466135	5/14/2009	7996170	8/9/2011	Issued	Par Pharmaceutical, Inc.
375.	Cyanocobalamin low viscosity aqueous formulations for intranasal delivery	12079875	3/27/2008	7879349	2/1/2011	Issued	Par Pharmaceutical, Inc.
376.	Nasal calcitonin formulations containing chlorobutanol	10805788	03/22/2004	7812120	10/12/2010	Issued	Par Pharmaceutical, Inc.
377.	System and method for sorting data	11810651	6/6/2007	7552020	6/23/2009	Issued	Par Pharmaceutical, Inc.
378.	Cyanocobalamin low viscosity aqueous formulations for intranasal delivery	10814399	03/31/2004	7404489	07/29/2008	Issued	Par Pharmaceutical, Inc.
379.	System and method for sorting data	11150614	6/10/2005	7246020	7/17/2007	Issued	Par Pharmaceutical, Inc.
380.	Cyanocobalamin low viscosity aqueous formulations for intranasal delivery	10787385	02/26/2004	7229636	06/12/2007	Issued	Par Pharmaceutical, Inc.
381.	Processes for preparing putanide compounds and compounds prepared by such processes	09685443	10/11/2000	6228401	05/08/2001	Issued	Par Pharmaceutical, Inc.
382.	System and method for sorting data	14108047	12/16/2013			Pending	Par Pharmaceutical, Inc.
383.	Use of megestrol acetate for the treatment of obstructive pulmonary diseases	11997274	07/13/2008			Pending	Par Pharmaceutical, Inc.
384.	Vasopressin formulations for use in treatment of hypotension	14717882	5/20/2015	9375478	06/28/2016	Issued	Par Pharmaceutical, Inc.
385.	Vitamin B12 nasal spray and method of use	14878430	10/8/2015			Pending	Par Pharmaceutical, Inc.
386.	Epinephrine Formulations	14863112	9/23/2015			Pending	Par Pharmaceutical, Inc.
387.	Vitamin B12 nasal spray and method of use	14738417	6/12/2015			Pending	Par Pharmaceutical, Inc.
388.	Vasopressin formulations for use in treatment of hypotension	14717877	5/20/2015			Pending	Par Pharmaceutical, Inc.
389.	Vasopressin formulations for use in treatment of hypotension	15289640	10/10/2016			Pending	Par Pharmaceuticals, Inc. ¹³
390.	Stabilized compositions containing alkaline labile drugs	14517140	10/17/2014	9364445	6/14/2016	Issued	Auxilium US Holdings, LLC
391.	Chronotherapeutic dosage forms	12380642	3/2/2009	9278076	3/5/2016	Issued	Endo Pharmaceuticals Inc.
392.	Controlled release formulations of octreotide	15246020	8/24/2016			Pending	Endo Pharmaceutical Solutions Inc.
393.	Delivery of dry formulations of octreotide	15246009	8/24/2016			Pending	Endo Pharmaceutical Solutions Inc.
394.	Sustained release formulation of nalbuphine	15162062	5/23/2016			Pending	Endo Pharmaceuticals Inc.

¹³ A corrective has been filed with the USPTO against this patent.

No.	Title	App. No.	App. Date	Patent No.	Issue Date	Status	Owner
395.	Implantable device for the delivery of octreotide and methods of use thereof	14534415	11/6/2014			Pending	Endo Pharmaceutical Solutions Inc.
396.	Oxymorphone controlled release compositions	14798619	7/14/2015			Pending	Endo Pharmaceuticals Inc.
397.	Minimally invasive implant and method	13335472	12/22/2011	9017243	4/28/2015	Issued	Astora Women's Health, LLC
398.	Surgical articles and methods for treating pelvic conditions	12467634	5/18/2009	8951185	2/10/2015	Issued	Astora Women's Health, LLC
* A corrective to address the incorrect spelling of "Companion" in the assignment has been filed with the USPTO.							
# Parent will use commercially reasonable efforts to address inventor assignment issues shown on the face of the record.							

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