

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3626131

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
GENERAL ELECTRIC CAPITAL CORPORATION, AS RETIRING AGENT	11/17/2015

RECEIVING PARTY DATA

Name:	HEALTHCARE FINANCIAL SOLUTIONS, LLC, AS SUCCESSOR AGENT
Street Address:	2 BETHESDA METRO CENTER
Internal Address:	SUITE 600
City:	BETHESDA
State/Country:	MARYLAND
Postal Code:	20814-5318

PROPERTY NUMBERS Total: 39

Property Type	Number
Patent Number:	8042687
Patent Number:	D708758
Patent Number:	8657823
Patent Number:	8579925
Patent Number:	8333775
Patent Number:	7771439
Patent Number:	D495807
Patent Number:	6620097
Patent Number:	6638280
Patent Number:	6685710
Patent Number:	6530883
Patent Number:	6241659
Patent Number:	7776065
Patent Number:	7938839
Patent Number:	6599309
Patent Number:	6238414
Patent Number:	6077290
Patent Number:	5893875
Patent Number:	5755723

PATENT

Property Type	Number
Patent Number:	5849021
Patent Number:	5868786
Patent Number:	5728108
Patent Number:	6015426
Patent Number:	6019780
Patent Number:	5524755
Patent Number:	5603724
Patent Number:	RE36666
Patent Number:	D371203
Application Number:	14089975
Application Number:	14090082
Application Number:	14084460
Application Number:	13314973
Application Number:	14020446
Application Number:	61730536
Application Number:	13669592
Application Number:	13534378
Application Number:	13337530
Application Number:	12370956
Patent Number:	8894029

CORRESPONDENCE DATA

Fax Number: (703)712-5050
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.

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ATTORNEY DOCKET NUMBER:	2060236-0110
NAME OF SUBMITTER:	JOYCE MILLER
SIGNATURE:	/Joyce Miller/
DATE SIGNED:	11/20/2015

Total Attachments: 33
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**ASSIGNMENT OF INTELLECTUAL PROPERTY
SECURITY AGREEMENT**

This **ASSIGNMENT OF INTELLECTUAL PROPERTY SECURITY AGREEMENT** (this “Assignment”), dated as of November 17, 2015, is by **GENERAL ELECTRIC CAPITAL CORPORATION**, (as the current and resigning administrative agent, the “Retiring Agent”) and **HEALTHCARE FINANCIAL SOLUTIONS, LLC**¹ (as the successor administrative agent together with its successors and assigns, the “Successor Agent”).

RECITALS:

WHEREAS, Symmetry Surgical, Inc., Specialty Surgical Instrumentation, Inc., Olsen Medical, Inc., Symmetry Medical SSI Real Estate, LLC, Symmetry Surgical International, Inc., as “Grantor”, and Retiring Agent are parties to one or more intellectual property security agreements identified in Exhibit A attached hereto (as the same have been and may hereafter be amended, restated, supplemented or otherwise modified from time to time, collectively, the “Agreements”) pursuant to which Grantor granted a security interest in and to and lien upon the intellectual property identified in Exhibit B (the “Subject IP”); and

WHEREAS, pursuant to that certain Omnibus Agency Transfer Agreement by and between Retiring Agent and Successor Agent, Retiring Agent has assigned to Successor Agent all of its rights, remedies, duties and other obligations under, among other documents, the Agreements and the Subject IP, in each instance, in its capacity as administrative agent and collateral agent, as the case may be.

NOW, THEREFORE, in consideration of the foregoing, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Retiring Agent hereby assigns and transfers to Successor Agent and its successors and assigns, all of its rights, title and interest in and to the Agreements.

This Assignment may be executed in any number of counterparts, each of which when so executed shall be deemed an original and all of which taken together shall constitute one and the same instrument.

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¹ Healthcare Financial Solutions, LLC is a Delaware limited liability company that does business as HFS Healthcare Financial Solutions, LLC in Alabama, California, Florida, Illinois, Maryland, Missouri, New Jersey, New Mexico and Texas and as HFS Healthcare Financial Solutions in New Hampshire

IN WITNESS WHEREOF, Retiring Agent and Successor Agent have caused this Assignment to be duly executed as of the date first above written.

RETIRING AGENT:

GENERAL ELECTRIC CAPITAL CORPORATION as Retiring Agent

By: 

Name: H. Darren Alcus

Title: Duly Authorized Signatory

SUCCESSOR AGENT:

HEALTHCARE FINANCIAL SOLUTIONS, LLC, as Successor Agent

By: 

Name: H. Darren Alcus

Title: Duly Authorized Signatory

EXHIBIT A

Trademark Security Agreement dated as of December 5, 2014 and filed with the United States Patent and Trademark Office on December 8, 2014 at Reel 5414, Frame 0224.

Patent Security Agreement dated as of December 5, 2014 and filed with the United States Patent and Trademark Office on December 12, 2014 at Reel 034485, Frame 0011.

Patent Security Agreement dated as of August 28, 2015 and filed with the United States Patent and Trademark Office on August 28, 2015 at Reel 036452, Frame 0011.

EXHIBIT B

[See attached]

**SCHEDULE I
TO
PATENT SECURITY AGREEMENT**

Patent Registrations

I. REGISTERED PATENTS

Hemostatic Clip Cartridge

No. 8,042,687

Filed June 10, 2008

Application No. 12/136,593

Hemostatic clip cartridge having a plurality of individual compartments for holding preformed hemostatic clips. Each individual compartment progressively increases in width from the centerline of the cartridge. Flexible retaining fingers extend into each individual compartment and secure the hemostatic clip to a pedestal. Harvesting the hemostatic clip from that particular individual compartment by a clip applicator moves at least one of the retaining fingers from a first position to a post-harvest position. Subsequent removal of the clip applicator with the harvested hemostatic clip from that particular individual compartment leaves at least one of the retaining fingers in the post-harvest position different from the first position so that the post-harvest position of the at least one of the retaining fingers indicates that the particular individual compartment has been accessed by the clip applicator.

**SCHEDULE I
TO
TRADEMARK SECURITY AGREEMENT**
Trademark Registrations
**SCHEDULE I
TO
TRADEMARK SECURITY AGREEMENT**
Trademark Registrations

**PATENT
REEL: 037150 FRAME: 0500**

I. REGISTERED TRADEMARKS

Trademark Name	Country	Serial #	Filing Date	Legal Owner	Future Owner	Issue Number	Issue Date	Status	Abandonment Date	Beginning of Renewal Period (One Year)	Next Period last	File
ACCESS SURGICAL INTERNATIONAL	United States	78/715, 400	9/19/2005	OEM	SS	3,484,913	8/12/2008	Live		5/27/2017		Symmetry 10.08
BOOKWALTER	United States	76/658320	4/12/2006	SS	SS	3376742	2/5/2008	Live		2/5/2017		SSI 12.30 US
	Also trademarked in Argentina, Bahrain, Bolivia, Brazil, Canada, Chile, China, Colombia, Cyprus, Denmark, Dominican Republic, Ecuador, Finland, Greece, Guatemala, Hong Kong, India, Indonesia, Iran, Ireland, Jamaica, Japan, Jordan, South Korea, Lebanon, Malaysia, Malta, Mexico, New Zealand, Norway, Oman, Panama, Philippines, Qatar, Saudi Arabia, Singapore, South Africa, Sweden, Taiwan, Thailand, Trinidad & Tobago, Turkey, United Arab Emirates, United Kingdom, Uruguay, Venezuela, Republic of Yemen											
BOOKWALTER ROTILT	United States	77/223535	7/6/2007	SS	SS	3391527	3/4/2008	Live		3/4/2017		SSI 12.19 US
	Also trademarked in Brazil, Singapore and Taiwan											

Trademark Name	Country	Serial #	Filing Date	Legal Owner	Future Owner	Issue Number	Issue Date	Status	Abandonment Date	Beginning of Next Period (Renewal Periods last One Year)	File
<u>CLASSIC PLUS</u>	United States	85/430, 899	9/23/2011	SS (Registered to J&J and that Todd Sullivan filed it on their behalf)	SS	4142652	5/15/2012	Live		5/15/2017	SSI 12.03 US
<u>CLASSIC PLUS</u>	United States	72/4421 03	11/1/1972	SS	SS	0984040	5/14/1974	Live		5/14/2023	SSI 12.04 US
Also trademarked in Argentina, Australia, Brazil, Canada, China, Denmark, Finland, Hong Kong, Norway, Singapore, Sweden, Taiwan											
<u>FLASH PAK</u>	United States	75/026,619	12/1/1995	OEM	SS	2080792	7/22/1997	Live		7/22/2016	Riley 016432-0011
<u>FLASHPAK (DESIGN ONLY)</u>	United States	77/852,405	10/20/2009	OEM	SS	3,884,970	12/7/2010	Live		12/7/2015	SSI
<u>MAGNACHE K</u>	Benelux	933519	3/3/1999	UNKNOW N	SS	646405	3/3/1999	Live		3/3/2018	SSI 12.09 BE
<u>MAGNAFRE E</u>	United States	75/373554	10/1/1997	SS	SS	2393864	10/10/2000	Live		10/10/2019	SSI 12.09 US
Also trademarked in Argentina, Australia, Bahrain, Bolivia, Brazil, Canada, Chile, China, Colombia, Cyprus, Denmark, Dominican Republic, Ecuador, Finland, Greece, Guatemala, Hong Kong, Iceland, India, Indonesia, Ireland, Jamaica, Japan, Jordan, South Korea, Lebanon, Malaysia, Malta, Mexico, New Zealand, Norway, Oman, Panama, Qatar, Saudi Arabia, Singapore, South Africa, Sweden, Taiwan, Thailand, Trinidad & Tobago, Turkey, United Arab Emirates, United Kingdom, Uruguay, Venezuela, Republic of Yemen											
<u>MICRO VASC</u>	United States	733720	6/1/1998	SS	SS	1278828	5/22/1984	Live		5/22/2023	SSI 12.23 US
<u>MICROCARE</u>	United States	73/3762	7/1/1998	SS	SS	131298	1/8/1998	Live		Active until 1/8/2015	SSI 12.18 US
Also trademarked in Canada											
<u>MICROPARK</u>	United States	77/652, 876	1/20/2009	Symmetry Medical	SS TO OEM	3651089	7/7/2009	Live		Active until 7/7/2015	Riley Medical

Trademark Name	Country	Serial #	Filing Date	Legal Owner	Future Owner	Issue Number	Issue Date	Status	Abandonment Date	Beginning of Renewal Period (Renewal Periods One Year)	Next Period (Renewal Periods last)	File
<u>MICROSECT</u>	United States	75/053790	2/1/1996	SS	SS	2154109	4/28/1998	Live		4/28/2017		SSI 12.24 US
<u>MIDAS TOUCH</u>	United States	75/316,925	6/30/1997	SS	SS	2246611	5/18/1999	Live		5/18/2018		SSI 11.12 US
<u>OLSEN</u>	United States	76/446,875	9/3/2002	SS	SS	3,390,498	3/4/2008	Live		3/4/2017		SSI 11.11 US
<u>OLSEN MEDICAL</u>	United States	78/181649	11/5/2002	SS	SS	2940694	4/12/2005	Live		Active until 4/12/2015		SSI 11.09
<u>OPT-LENGTH</u>	United States	76/691813	8/4/2008	SS	SS	3555766	1/6/2009	Live		1/6/2018		SSI 12.26 US
<u>PLASMAPAK</u>	Europe	000266775	6/31/1996	OEM	SS	266775	6/23/1998	Live		6/23/2017		Riley 016432 - 0027EP
<u>PRESERVE</u>	United States	73149338	11/21/1997	SS	SS	1106966	11/28/1998	Live		11/28/2017		SSI 12.17 US
<u>PRESERVE, PLUS DESIGN (CANADA)</u>	Canada	398401	5/1/1997	SS	SS	TMA225,862	2/3/1998	Live		2/3/2017		SSI 12.07 CA
<u>RAPIDCLEAN</u>	United States	76/103195	8/7/2000	SS	SS	2940326	4/12/2005	Live		Active until 4/12/2015		SSI 12.02 US

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REEL: 037150 FRAME: 0502

Trademark Name	Country	Serial #	Filing Date	Legal Owner	Future Owner	Issue Number	Issue Date	Status	Abandonment Date	Beginning of Next Period (Renewal Periods last One Year)	File
SLOGO	United States	85/635, 846	5/25/2012	SS	SS	4,415,627	10/8/2013	Live		10/8/2018	SSI 12.56
		856358	5/25/2012		SS	4404275	9/17/2013	Live			
		856359	5/25/2012		SS	4304347	3/19/2013	Live			
		13									
SECTO	United States	71/6710	8/31/1995	SS	SS	0609976	8/2/1995	Live		Active until 8/2/2015	SSI 12.25 US
		38	4				5				
SSI	United States	76/217, 048	2/27/2001	SS	SS	2699437	3/25/2003	Live		3/25/2012	SSI
		76/564, 537	12/1/02	SS	SS	2939332	5/12/2005	Live		4/12/2025	SSI
SYMMETRY	United States	85/552, 001	2/24/2012	OEM	SS	4,407,825	9/24/2013	Live		9/23/2018	SSI 12.12
		Pending in Japan, New Zealand, Australia and also registered in Taiwan and Hong Kong									
SYMMETRY	United States	85/552, 017	2/24/2012	OEM	SS	4,407,826	9/24/2013	Live		9/23/2018	SSI 12.13
		85/552, 055	2/24/2012	OEM	SS	4,407,827	9/24/2013	Live		9/23/2018	SSI 12.11 US

PATENT

REEL: 037150 FRAME: 0503

Trademark Name	Country	Serial #	Filing Date	Legal Owner	Future Owner	Issue Number	Issue Date	Status	Abandonment Date	Beginning of Next Period (Renewal Periods last One Year)	File
<u>SYMMETRY SURGICAL</u>	United States	85528900	1/30/2012	OEM	SS	4407791	9/24/2013	Live		9/24/2018	SSI
Also registered in Taiwan, Japan, Russia, Hong Kong, and the European Union. Pending in Australia, Mexico, China, Saudi Arabia, Thailand, Singapore, United Arab Emirates, South Africa, New Zealand, Turkey, Brazil, India, South Korea, Canada, and Israel											
<u>SYMMETRY SURGICAL</u>	United States	85526378	1/26/2012	OEM	SS	4404038	9/17/2013	Live		9/17/2018	SSI
<u>SYMMETRY SURGICAL</u>	United States	85526317	1/26/2012	OEM	SS	4404027	9/17/2013	Live		9/17/2018	SSI
<u>ULTRA INSTRUMENTS</u>	United States	76709039	9/12/2011	OEM	SS	4239562	11/13/2012	Live		11/13/2017	SMI0189,US
<u>ULTRA POINT</u>	United States	74575,858	9/19/1994	SS	SS	2,086,741	8/12/1997	Live		8/12/2016	Symmetry 10.18
<u>WHEN A SPECIALIST NEEDS A SPECIALIST</u>	United States	76223,424	3/12/2001	SS	SS	2678853	1/21/2003	Live		1/21/2012	SSI
<u>YOUR SPECIALIST IN SURGERY</u>	United States	77241,023	7/27/2007	SS	SS	3,439,620	6/3/2008	Live		6/3/2017	SSI
<u>MICROPAK</u>	United States	77652,876	1/20/2009	Symmetry Medical Manufacturing, Inc.	SS TO OEM	3651089	7/7/2009	Live		Active until 7/7/2015	Riley Medical
<u>MULTIPAK</u>	United States	74534,902	6/8/1994	Symmetry Medical Manufacturing, Inc.	SS TO OEM	1,969,288	April 23, 1996	Live		4/23/2015	Riley 016432-0022
Also trademarked in France, Britain, Germany and Italy											
<u>MULTIPAK III</u>	United States	77652,906	1/20/2009	Symmetry Medical Manufacturing, Inc.	SS TO OEM	3660682	7/28/2009	Live		7/28/2014	Riley Medical

PATENT

REEL: 037150 FRAME: 0504

Trademark Name	Country	Serial #	Filing Date	Legal Owner	Future Owner	Issue Number	Issue Date	Status	Abandonment Date	Beginning of Next Period (Renewal Periods last One Year)	File
<u>ONEPAK</u>	United States	77/640, 420	12/29/2008	Symmetry Medical Manufacturing, Inc.	SS TO OEM	3657309	7/21/2009	Live		7/21/2014	Polyvac.5015
<u>OPTICARE (U.S.)</u>	United States	74/629, 533	2/3/1995	Symmetry Medical Manufacturing, Inc.	SS TO OEM	1,984,739	7/2/1996	Live		7/2/2015	SMI0018; US Riley Medical
<u>QUAD-LOCK</u>	United States	85/3010 34	4/21/2011	Specialty Surgical Instrumentation Inc.	SS TO OEM	4072058	12/13/2011	Live		8/16/2016	SSI 12.05 US
<u>RILEY MEDICAL</u>	United States	76/7042 16	8/23/2010	Symmetry Medical Manufacturing, Inc.	SS TO OEM	4139294	5/8/2012	Live		5/8/2017	SMI0184; US
<u>RILEY MEDICAL LEADING THE WAY IN STERILIZATION (THIS IS THE RILEY LOGO)</u>	United States	76/7042 15	8/23/2010	Symmetry Medical Manufacturing, Inc.	SS TO OEM	4175809	7/17/2012	Live		7/17/2017	SMI0183; US
<u>SCOPEPAK</u>	United States	77/652, 847	1/20/2009	Symmetry Medical Manufacturing, Inc.	SS TO OEM	3651088	7/7/2009	Live		Active until 7/7/2014	Riley Medical
<u>STACKPAK & DES</u>	United States	76/504, 928	4/7/2003	Symmetry Medical Manufacturing, Inc.	SS TO OEM	2,842,580	5/18/2004	Live		5/18/2023	Riley 016432-0041

Also trademarked in Argentina, Australia, Bahrain, Belarus, Bolivia, Brazil, Canada, Chile, China, Colombia, Croatia, Dominican Republic, Ecuador, Egypt, European Community (EU), Guatemala, Hong Kong, Iceland, India, Indonesia, Jamaica, Japan, Jordan, South Korea, Lebanon, Malaysia, New Zealand, Norway, Oman, Panama, Philippines, Qatar, Russian Federation, Saudi Arabia, Singapore, South Africa, Switzerland, Thailand, Trinidad & Tobago, Turkey, Ukraine, United Arab Emirates, United Kingdom, Uruguay, Venezuela, Republic of Yemen

Trademark Name	Country	Serial #	Filing Date	Legal Owner	Future Owner	Issue Number	Issue Date	Status	Abandonment Date	Beginning of Renewal Period (Renewal Periods last One Year)	Next Period last	File
THE ULTRA SYSTEM	United States	76350635	12/20/2001	Symmetry Medical Manufacturing, Inc.	SS TO OEM	2793721	12/16/2003	Live		Active 12/23/2014	until	SMI0174.US
TRANSPAK	United States	74/438,596	12/5/1995	Symmetry Medical Manufacturing, Inc.	SS TO OEM	1,939,147	12/5/1995	Live		12/5/2014		Riley 016432-0019

PATENT
REEL: 037150 FRAME: 0506

II. TRADEMARK APPLICATIONS

File	Title/Mark	Serial Number	Filing Date	Legal Owner	Future Owner	Issue Number/ Issue Date	Description	Comments	Confirmed 2/2012
SM10110;US	SPACE CASE (U.S.)			OEM	SS TO OEM		TRADEMARK	Trademark search initiated.	Abandoned
SM10177;US	REVEAL	Filed	1/15/2010	SS	SS		TRADEMARK	Application	Yes
SM10190;AR	<u>OLSEN</u>	3118756		SS	SS	Pending	Trademark		
SSI 14.02	Sharp Kerrison	86/287,200	5/21/2014	SS	SS				
Symmetry 11.11	SymmetrySurgical.com			SS	SS				
	RAPIDCLEAN	86/343515	7/21/2014	SS	SS	Pending	Trademark		
	SSI	86/293573	5/28/2014	SS	SS	Pending	Trademark		

PATENT

REEL: 037150 FRAME: 0507

**SCHEDULE I
TO
PATENT SECURITY AGREEMENT**

Patent Registrations

I. REGISTERED PATENTS

Document No.	Title	Abstract	Inventors	Priority Date	File Date	Publish/Grant Date	Expiration Date
USD708758	Metal bellow valve		Jacene, Michael; Griffiths, Jerry R.; Johnson, Christopher M.; Kiapour, Ali	8/24/2012	8/24/2012	7/8/2014	7/8/2028
US8657823	Rongeur with detachable tips	A rongeur has an elongated shank having a distal end and a proximal end. An elongated crossbar, which moves between a retracted position and a tissue capturing position position, has a distal end and a proximal end and reciprocates axially with respect to the shank. A first tip is selectively connected to the shank. The first tip has a proximal end and a distal end. The proximal end has a reduced diameter post. In the selectively connected position, the reduced diameter post of the first tip is received in a bore of the shank. A second tip is selectively connected to the crossbar. The second tip has a proximal end and a distal end. The proximal end has a reduced diameter post. In the selectively connected position, the reduced diameter post of the second tip is received in a bore of the crossbar.	Agbodoe, Victor B.	12/12/2011	12/12/2011	2/25/2014	2/25/2018
US8579925	Medical clamp	A medical clamp includes a lower arm assembly, an upper arm assembly, and a belt. The upper arm assembly is pivotally connected to the lower arm assembly. The lower arm assembly and the upper arm assembly are configured for clamping relative to one another. The belt is connected to the lower arm assembly and the	Staggs, Stephen M.	7/7/2010	7/7/2011	11/12/2013	11/12/2017

		upper arm assembly and is configured for forming a loop therebetween.					
US8333775	Gastric band insertion instrument	An endoscopic surgical instrument is used in minimally invasive laparoscopic surgery for inserting a gastric band into a patient's abdomen through a laparoscopic port. The gastric band insertion instrument includes a handle, an elongated shaft and a distal end assembly. The elongated shaft includes an actuator rod that opens and closes a movable jaw at the distal end. A pin at the distal end assembly engages a hole in the front of the gastric band, and the movable jaw is closed thereby securely capturing the front end of the gastric band. The shaft and the captured gastric band are inserted through a laparoscopic port into the patient's abdomen.	Griffiths, Jerry R.	12/22/2005	6/11/2010	12/18/2012	12/18/2016
US7771439	Gastric band insertion instrument	An endoscopic surgical instrument is used in minimally invasive laparoscopic surgery for inserting a gastric band into a patient's abdomen through a laparoscopic port. The gastric band insertion instrument includes a handle, an elongated shaft and a distal end assembly. The elongated shaft includes an actuator rod that opens and closes a movable jaw at the distal end. A pin at the distal end assembly engages a hole in the front of the gastric band, and the movable jaw is closed thereby securely capturing the front end of the gastric band. The shaft and the captured gastric band are inserted through a laparoscopic port into the patient's abdomen.	Griffiths, Jerry R.	2/4/2005	12/22/2005	8/10/2010	8/10/2018
USD495807	Tray		Agbodoe, Victor B.; Richardson, Gary	6/23/2003	6/23/2003	9/7/2004	9/7/2018
JP2003164460	RONGEUR WITH DRAINAGE	PROBLEM TO BE SOLVED: To provide a rongeur enabling the approach of a sterilizer or the like to component parts during cleaning or sterilization, and a method of sterilizing it.SOLUTION: The rongeur 10 has one or more drainage holes 88 passing through its shank 12 into a space between the shank and a crossbar 20 to enable the discharge of fluid while promoting cleaning and	Agbodoe, Victor B.	10/10/2001	10/9/2002	6/10/2003	

		sterilization.COPYRIGHT: (C)2003,JPO					
EP13021 68	Rongeur with drainage	Abstract of EP1302168 A rongeur (10) has one or more drainage holes (88) through its shank (12) into a space between its shank (12) and crossbar (20) to allow drainage of fluid therefrom and to enhance cleaning and sterilization.	Agbodoe, Victor B.	10/10/200 1	10/9/20 02	12/12/2 007	
EP13021 68	Rongeur with drainage	A rongeur (10) has one or more drainage holes (88) through its shank (12) into a space between its shank (12) and crossbar (20) to allow drainage of fluid therefrom and to enhance cleaning and sterilization.	Agbodoe, Victor B.	10/10/200 1	10/9/20 02	4/16/20 03	
CA2407 023	RON GEUR WITH DRAINAGE	A rongeur has one or more drainage holes through its shank into a space between its shank and crossbar to allow drainage of fluid therefrom and to enhance cleaning and sterilization.	AGBOD OE VICTOR B	10/10/200 1	10/9/20 02	4/10/20 03	
CA2407 023	RON GEUR WITH DRAINAGE	A rongeur has one or more drainage holes through its shank into a space between its shank and crossbar to allow drainage of fluid therefrom and to enhance cleaning and sterilization.	AGBOD OE VICTOR B	10/10/200 1	10/9/20 02	12/7/20 10	
MXPA0 2009981	RON GEUR WITH DRAINAGE	A rongeur has one or more drainage holes through its shank into a space between its shank and crossbar to allow drainage of fluid therefrom and to enhance cleaning and sterilization.	AGBOD OE VICTOR B	10/10/200 1	10/9/20 02	12/19/2 005	
DE60223 978	Chirurgische Ablaufvorrichtung	Schneidzange mit	AGBOD OE VICTOR B	10/10/200 1	10/9/20 02	1/24/20 08	
DE60223 978	Schneidzange mit Ablauf		Agbodoe, Victor B.	10/10/200 1	10/9/20 02		
AU2002 301343	Rongeur with drainage		AGBOD OE VICTOR B	10/10/200 1	10/7/20 02	2/15/20 07	
US66200 97	Three- dimen sional tilt ratchet mecha nism	A three-dimensional tilt ratchet mechanism that is able to rotate, pivot, and bend forwards or backwards with ease is provided. The mechanism includes a device for multi-dimensional movement and placement of a retractor blade which comprises a first member adapted to receive a stem of a retractor blade. The first member has a locking mechanism effective to enable selective lateral adjustment of the retractor blade relative to the first member. Also provided is a second member to which the first member is mated. The first	Bookwalt er, John R.; Cabrera, Rene; Memorro w, John; Moore, Kyle; Torres, Nelson	3/29/2002	3/29/20 02	9/16/20 03	9/16/2015

		member is vertically pivotable with respect to the second member to enable selective vertical pivoting adjustment of the retractor blade relative to the second member. A rotator indexing body is mated to the second member and is adapted to mount onto a rim of a surgical support. The second member is rotatable with respect to the rotator indexing body such that the first member, the second member and the retractor blade are able to selectively rotate about the longitudinal axis of the rotator indexing body.					
US6638280	Rongeur with drainage	A rongeur has one or more drainage holes through its shank into a space between its shank and crossbar to allow drainage of fluid therefrom and to enhance cleaning and sterilization.	Agbodo, Victor B.	10/10/2001	10/10/2001	10/28/2003	10/28/2015
US6685710	Rongeur with detachable crossbar	A rongeur has a detachable crossbar to enhance cleaning and sterilization. A pin in a slot on one of the rongeur's handles is moveable out of the slot to permit extended retraction of the crossbar to a position in which it may disengage from the shank of the rongeur.	Agbodo, Victor B.; Richardson, Gary; Torres, Nelson P.	10/10/2001	10/10/2001	2/3/2004	2/3/2016
US6530883	Surgical retractor assembly	A retractor systems includes a retractor blade with a blade portion and a handle portion that fit together in a modular way to allow different blades to be removably and interchangeably affixed to the handle assembly. A dovetail mounts the blade in a plane substantially transverse or perpendicular to the shaft. Preferably, the handle assembly translates within a multi-position locking mechanism to allow adjustment of the handle extension along one or more axes, while the in-plane swing of the blade about the shaft conveniently positions the tip of the blade under tissue to be retracted when bone or hard tissue may impede access along a retraction direction parallel to the axis of the shaft. The interchangeable blades may have different sizes between approximately 5 and 15 centimeters length, and are manually affixed to the handle to set the reach and scope of the retractor for a particular	Bookwalter, John R.; Cabrera, Rene J.; Walker, Wesley C.; Hayes, Kenneth R.	10/6/1999	6/1/2001	3/11/2003	6/1/2021

		operation. Preferably a blade is formed of a radiolucent polymer, permitting unobstructed imaging when the retractor is occluded during surgery on a joint, or during an anterior approach to the spine. The blade may be formed with its surface dished or curved in one or more directions, or may have a lip or flare adapted for a contacting or retracting a particular tissue or structure. The surface of the blade swings down to engage muscle along a path substantially tangent to a hard tissue structure or bone from which the tissue is to be retracted.					
EP1090589	Surgical retractor assembly with controlled rotation	A retractor assembly (20) for positioning tissue in a surgical arena, such retractor assembly (20) comprising a shaft (310) adapted for longitudinal movement in a clamp channel (42) of non-circular cross-sectional shape wherein the shaft (310) has at least one elongated surface ridge (311) such that the shaft (310) rotates freely within a limited range in said channel (42) for self alignment when contacting tissue and the shaft (310) jams against the channel (42) by interference of said ridge (311) with said channel (42) to automatically limit a range of rotation of the shaft (310).	Bookwalter, John R.; Cabrera, Rene J.; Walker, Wesley C.; Hayes, Kenneth R.	10/6/1999	10/5/2000	4/11/2001	
EP1090589	Surgical retractor assembly with controlled rotation	Abstract of EP1090589 A retractor assembly (20) for positioning tissue in a surgical arena, such retractor assembly (20) comprising a shaft (310) adapted for longitudinal movement in a clamp channel (42) of non-circular cross-sectional shape wherein the shaft (310) has at least one elongated surface ridge (311) such that the shaft (310) rotates freely within a limited range in said channel (42) for self alignment when contacting tissue and the shaft (310) jams against the channel (42) by interference of said ridge (311) with said channel (42) to automatically limit a range of rotation of the shaft (310).	Bookwalter, John R.; Cabrera, Rene J.; Walker, Wesley C.; Hayes, Kenneth R.	10/6/1999	10/5/2000	2/28/2007	
US6241659	Surgical retractor assembly	A retractor blade mounts on a shaft having a controlled degree of rotation and swings down to grip and retract tissue from bone or a hard tissue structure. The	Bookwalter, John R.; Cabrera, Rene J.;	10/6/1999	10/6/1999	6/5/2001	10/6/2019

	bly with controlled rotation	retractor blade includes a blade portion and a handle portion which may be integrally joined or may fit together in a modular way to allow different blades to be removably and interchangeably affixed to the handle assembly. A dovetail may mount the blade in a plane substantially transverse or perpendicular to the shaft. The shaft translates within a multi-position locking mechanism to allow adjustment of the handle extension along one or more axes, while the in-plane swing of the blade about the shaft conveniently positions the tip of the blade under tissue to be retracted when bone or hard tissue impedes access along the retraction direction parallel to the axis of the shaft. The retractor handle has a regular cross-section with one or more protruding lobes or ridges extending along the axial direction such that the edge-to-edge diameter of the handle varies with angular position about the axis, and peaks at one or more lobes or opposed pairs of lobes so that the ridges jam by interference against the walls of a channel in a clamping assembly. Preferably the blade is formed of a radiolucent polymer and may have its surface dished or curved in one or more directions, or may have a lip or flare adapted for contacting or retracting a particular tissue or structure.	Walker, Wesley C.; Hayes, Kenneth R.				
Issue Number: DI63049 52-0	RON GEUR TRAY						
Issue Number: 036180	RON GEUR TRAY						
Issue Number: 4030822 3.4	RON GEUR TRAY						
Issue Number: 4030822 3.4	RON GEUR TRAY						
US20130 082157 Issued:	RETR ACTOR RING	A retractor ring assembly includes a ring holder that has a first selectively engaged connection and a second	Agbodoe, Victor; Storz, Olaf;	9/30/2011	9/30/2011	4/4/2013	US20130 082157

8,894,029	HOLDER	selectively engaged connection. A first and second ring portion each has a proximal end and a distal end. The proximal end of the first and second ring portions are selectively connected to the respective first and second selectively engaged connections of the ring holder. The distal end of the first ring portion has a third selectively engaged connection. The distal end of the second ring portion has a fourth selectively engaged connection. The third selectively engaged connection and the fourth selectively engaged connection are connectable to form a reinforced closed ring configuration, and are disconnectable to form an open ring configuration.	Bookwalter, John R.				
CA2680258	IMPROVED END EFFECTOR MECHANISM FOR A SURGICAL INSTRUMENT	Improved end effector mechanisms for a surgical instrument used in minimally invasive surgical instruments as well as instruments for general surgery or as part of robotically controlled end effectors. These end effector mechanisms include multiple grasping elements paired with drive links. Each grasping element also serves as a stabilizing link for the next most distal grasping element, forcing it to maintain its relative angle with respect to the opposing grasping elements.	DIFRANCESCO FRANCIS J; GRIFFITHS JERRY R	3/20/2007	10/19/2007	9/25/2008	
CA2680258	IMPROVED END EFFECTOR MECHANISM FOR A SURGICAL INSTRUMENT	Improved end effector mechanisms for a surgical instrument used in minimally invasive surgical instruments as well as instruments for general surgery or as part of robotically controlled end effectors. These end effector mechanisms include multiple grasping elements paired with drive links. Each grasping element also serves as a stabilizing link for the next most distal grasping element, forcing it to maintain its relative angle with respect to the opposing grasping elements.	GRIFFITHS JERRY R; DIFRANCESCO FRANCIS J	3/20/2007	10/19/2007	3/20/2012	
US776065	End effector mechanism for a surgical	Improved end effector mechanisms for a surgical instrument used in minimally invasive surgical instruments as well as instruments for general surgery or as part of robotically controlled end effectors. These end effector mechanisms include	Griffiths, Jerry R.; Difrancesco, Francis J.	3/20/2007	9/24/2007	8/17/2010	8/17/2018

	instru ment	multiple grasping elements paired with drive links. Each grasping element also serves as a stabilizing link for the next most distal grasping element, forcing it to maintain its relative angle with respect to the opposing grasping elements.					
US79388 39	Interlo cking trigger assem bly for a suturin g device	An endoscopic suturing device having an interlocking trigger assembly for preventing premature needle deployment. The suturing device comprises a handle assembly that includes a movable handle interlocking with a trigger. The suturing device further comprises an end effector having an upper jaw, a lower jaw and a needle/suture mechanism. The motion of the movable handle causes the upper jaw to move relative to the lower jaw. The activation of the trigger causes deployment of the needle/suture mechanism. The interlocking mechanism ensures that the needle/suture is deployed only when the upper jaw is below a maximum allowable distance from the lower jaw.	Difrances co, Francis J.; Griffiths, Jerry R.	6/13/2003	2/26/20 04	5/10/20 11	5/10/2015
US65993 09	Pin- less surgic al instru ment	A miniature articulated tip instrument for surgical and like uses, comprising: a thumb housing with an elongated fixed jaw assembly mounted thereto and extending therefrom. A movable jaw actuator member is slidably mounted in a groove formed in the said fixed jaw assembly, the proximal end of the actuator member being seated in a finger housing which is mounted to and spring biased from the thumb housing. A movable jaw defining at least one arcuate projection extending therefrom for pivotal engagement with the actuator member is additionally provided with a second arcuate projection and a concentric cutout on its opposite side from the second arcuate projection to engage the fixed jaw member and provide a pivot point. The actuator member drives the movable jaw member in a pivoting motion within a throughgoing slot formed in the fixed jaw member within a range of movement with respect to the fixed jaw assembly	Gilman, Brian W.	9/9/1999	8/22/20 00	7/29/20 03	7/29/2015

		between extended and retracted positions for effecting selective user controlled working movement.					
US6238414	Laparoscopic instrument with parallel actuated jaws	A surgical instrument including a handle assembly, and end effector mechanism including jaws, an elongated shaft assembly having a longitudinal actuation rod linearly reciprocating within a hollow sheath, slidably connecting the handle assembly to the jaws. Jaws having first and second grasping members have a mechanically controlled linkage assembly enabling the jaws to be adapted such that they can only open in parallel relationship to each other. The linkage assembly having a pair of toggle links which are rotatively connected to a linear translation member to cause the jaws to open or close. The linkage assembly further having a pair of stabilizing links, which at one end are pivotally anchored to a non-reciprocal movement member, and at an opposite end interconnected with the jaws to maintain the opposing serrated grasping surfaces of the jaws in a parallel relationship to each other.	Griffiths, Jerry R.	1/20/2000	1/20/2000	5/29/2001	1/20/2020
US6077290	Endoscopic instrument with removable front end	An endoscopic instrument having a ball and socket connection for releasably attaching a front end assembly to an actuating handle assembly comprising of a base having a downwardly extending stationary handle and a pivoting handle. The socket comprising a plurality of resilient prongs to create a friction fit that can be disengaged by the surgeon retracting the pivoting thumb handle. The socket disposed in the base and linkage provided for actuating the instrument.	Marini, Louis J.	9/10/1999	9/10/1999	6/20/2000	9/10/2019
US5893875	Surgical instrument with replaceable jaw assembly	A detachable and replaceable end effector assembly. The detachable mechanism is made of standard end effectors attached to an actuating tip and pinned inside a yoke assembly. Replacement is made by pulling back a spring loaded radial lock 90, to disengage two rear tabs 51 on the outer tip 50. The yoke assembly is then rotated 90	O'connor, Paul D.; Batchelder, Christopher M.; Lombardo, Giuseppe	10/7/1994	5/15/1997	4/13/1999	5/15/2017

		degrees to disengage the rear yoke pin 9 from the tubular shaft 70. This rotation of 90 degrees also unlocks the T-bar 45 from the front "T" slot of the long actuator 80. The end effector or jaw assembly is then free to be pulled away from the remainder of the shaft. In addition there is a bayonet connection to hold the parts together and prevent accidental disconnection.					
US5755723	Retrograde surgical instrument	A handle-activated retrograde endoscopic instrument with an extension shaft rotatably connected to a fixed handle, the rotation limited by a spring-loaded lock into shaft detents corresponding to rotational position options, and with an extension of an outer tip and reduction of open range of effector movement to shield any pinch area.	Lombardo, Giuseppe	4/18/1997	4/18/1997	5/26/1998	4/18/2017
US5849021	Elongated thumb loop for surgical instrument	A handle for endoscopic surgical instruments with an elongated thumb loop optimized for providing support and driving force in endoscopic surgery.	Difrancesco, Francis J.; Reay-Young, Clive B.	4/18/1997	4/18/1997	12/15/1998	4/18/2017
US5868786	Integral log linkage for micro-instrument	A articulating tip structure with a pivot lug and a rotatable jaw with a pivot seat which wraps around the lug in normal operation and provides a gap for disengagement of the lug to allow disassembly and assembly.	Difrancesco, Francis J.	4/18/1997	4/18/1997	2/9/1999	4/18/2017
US5728108	Rotary drive mechanism for instrument handle	A handle and drive mechanism for providing a reciprocating rotary action of a driveshaft, first in one rotational direction and then reversing the rotational direction, suitable for suturing and other endoscopic operations.	Griffiths, Jerry R.; Young Jr., John	3/20/1997	3/20/1997	3/17/1998	3/20/2017
US6015426	Rotatable linkage for micro-instrument	A rotatable linkage for use in handling small objects at a distance, for example, in endoscopic surgery, by converting the longitudinal motion of a drive member to the opening and closing of jaws at the distal end of the drive member wherein the drive member is enclosed in an elongated housing on which the jaws are mounted which may be rotated relative to the drive member on a bearing by rotation	Griffiths, Jerry Richard	7/13/1994	2/27/1997	1/18/2000	2/27/2017

		of the housing.							
US6019780	Dual pin and groove pivot for micro-instrument	A miniature articulating tip for an endoscopic instrument comprising a jaw with a curved slot through which two pivot lugs pass and are anchored in or integral to a fixed outer tip. The two pivot lugs guide the jaw over a path defined by the curved slot and provide stops at the ends of the curve.	Lombardo, Giuseppe; Difrancesco, Francis J.; Gilman, Brian W.; Burke, Roger M.	1/30/1997	1/30/1997	2/1/2000	1/30/2017		
US5524755	Sterilization container	Deeds, Charles D.	3/14/1994	5/22/1995	6/11/1996	5/22/2015			
US5603724	Suction punch	A cutting-suctioning tool for micro-surgery including closing jaws, that in closed position, provide a suctioning/fluid channel axially through the jaws for removal of tissue and fluids.	O'connor, Paul D.	2/13/1995	2/13/1995	2/18/1997	2/13/2015		
USRE3666	Micro-instrument	A microsurgical instrument with opposing jaws rotatable relative to one another using a pivot integral to a frame comprising one jaw for rotating the other jaw and a linkage to push one jaw rotatably towards the other jaw wherein a distal-most surface of that jaw pushes against a surface of jaw to be moved.	Honkanen Deceased., George P.; Burke, legal representative; by Roger M.; Burke, Roger M.; Weaver, Paul C.	5/31/1990	10/6/1994	4/18/2000	4/18/2017		
Issue Number: D371203	Sterilization Container (Ultra Container holes)	Medical Device Systems, Inc.1 Missing assignment				3/14/1994	Issue Date: 6/25/1996		

II. PENDING PATENTS

Document No.	Title	Abstract	Inventors	Priority Date	File Date	Publish/Grant Date
WO/2014/085718	LINEAR SLIDE INDICATOR	The present invention provides a linear slide indicator used in connection with a medical device to indicate radial expansion or linear translation of a component within the device. The medical instrument includes a shaft, a handle, an end effector and a linear slide indicator. The shaft extends along a shaft axis and is configured to travel linearly along the shaft axis. The handle is configured to be attached to a proximal end of the shaft and to rotate around the shaft axis. The end effector is configured to be attached to a distal end of the shaft and to travel linearly with the shaft along the shaft axis via the rotational motion of the handle. The linear slide indicator is configured to indicate a magnified value of an actual traveled linear distance of the end effector.	ATTAR, Matthew	11/29/2012	11/27/2013	6/5/2014
US20140171748	THREE DIMENSIONAL TILT RATCHET WITH SELF RETAINING MECHANISM	A ratchet assembly for multi-dimensional movement and placement of a retractor blade includes a retractor blade holder, a housing member, a rotating indexer and a self-retaining locking mechanism. The retractor blade holder is shaped and dimensioned to receive a stem of a retractor blade and includes a locking mechanism that enables selective lateral adjustment of the retractor blade relative to the retractor blade holder. The retractor blade holder is mated to the housing member and is vertically pivotable with respect to the housing member to enable selective vertical pivoting adjustment of the retractor blade relative to the housing	Bookwalter, John; Redmond, Kevin	11/28/2012	11/26/2013	6/19/2014

		<p>member. The rotating indexer is mated to the housing member, and the housing member is rotatable with respect to the rotating indexer so that the retractor blade holder, the housing member and the retractor blade are able to selectively rotate about the longitudinal axis of the rotating indexer. The rotating indexer is shaped and dimensioned to mount onto a rim of a surgical support. The self-retaining locking mechanism simultaneously locks or unlocks the position of the housing member relative to the rotating indexer and the position of the rotating indexer and the entire ratchet assembly onto the rim of the surgical support.</p>				
US20140171949	LINEAR SLIDE INDICATOR	<p>The present invention provides a linear slide indicator used in connection with a medical device to indicate radial expansion or linear translation of a component within the device. The medical instrument includes a shaft, a handle, an end effector and a linear slide indicator. The shaft extends along a shaft axis and is configured to travel linearly along the shaft axis. The handle is configured to be attached to a proximal end of the shaft and to rotate around the shaft axis. The end effector is configured to be attached to a distal end of the shaft and to travel linearly with the shaft along the shaft axis via the rotational motion of the handle. The linear slide indicator is configured to indicate a magnified value of an actual traveled linear distance of the end effector.</p>	Attar, Matthew J.	11/29/2012	11/26/2013	6/19/2014
WO/2014/081759	SYSTEM AND METHOD FOR FORMING A CURVED TUNNEL	<p>A drill system for forming a curved tunnel in a bone includes a drill bit guidance device. The drill bit guidance device includes an elongated stationary outer tube extending along a first axis and an elongated inner</p>	GRIFFIT HS, Jerry, R.; FERNA NDEZ, Jose	11/20/2012	11/20/2013	5/30/2014

	IN BONE	<p>tube. The elongated inner tube is configured to slidably move within the elongated stationary outer tube along the first axis and to exit from a distal end of the elongated outer tube. The elongated inner tube has a partially slotted distal end portion including a plurality of semi-cross-sectional slots extending perpendicular to the first axis. Each slot is configured to collapse inward in the slot direction when exiting the distal end of the elongated outer tube, thereby curving the distal end portion of the elongated inner tube.</p>				
US2014017 1948	SYSTEM AND METHOD FOR FORMING A CURVED TUNNEL IN BONE	<p>A drill system for forming a curved tunnel in a bone includes a drill bit guidance device. The drill bit guidance device includes an elongated stationary outer tube extending along a first axis and an elongated inner tube. The elongated inner tube is configured to slidably move within the elongated stationary outer tube along the first axis and to exit from a distal end of the elongated outer tube. The elongated inner tube has a partially slotted distal end portion including a plurality of semi-cross-sectional slots extending perpendicular to the first axis. Each slot is configured to collapse inward in the slot direction when exiting the distal end of the elongated outer tube, thereby curving the distal end portion of the elongated inner tube.</p>	Griffiths, Jerry R.; Fernandez, Jose	11/20/2012	11/19/2013	6/19/2014
WO/2013/1 34493	CONSTRICTING PRESSURE VALVE APPARATUS AND METHODS THEREOF	<p>A valve apparatus and methods associated thereof are provided. The valve apparatus includes a valve housing structure. A first valve portion is connected to the valve housing structure, wherein the first valve portion has a sealing edge. A second valve portion is positioned at least partially within the valve</p>		3/9/2012	3/7/2013	9/12/2013

		housing structure. A constrictable membrane has a pressurizable interior compartment, wherein the constrictable membrane supported by the second valve portion and positioned proximate to the first valve portion, wherein at least a portion of the constrictable membrane is movable to engageable with the sealing edge of the first valve portion.				
WO/2013/089959	RONGEUR WITH DETACHABLE TIPS	A rongeur has an elongated shank having a distal end and a proximal end. An elongated crossbar, which moves between a retracted position and a tissue capturing position, has a distal end and a proximal end and reciprocates axially with respect to the shank. A first tip is selectively connected to the shank. The first tip has a proximal end and a distal end. The proximal end has a reduced diameter post. In the selectively connected position, the reduced diameter post of the first tip is received in a bore of the shank. A second tip is selectively connected to the crossbar. The second tip has a proximal end and a distal end. The proximal end has a reduced diameter post. In the selectively connected position, the reduced diameter post of the second tip is received in a bore of the crossbar.	AGBOD OE, Victor, B.	12/12/2011	11/14/2012	6/20/2013
WO/2013/059640	UNIVERSAL ARM SYSTEM	A universal arm has a proximal end, a distal end and a middle portion therebetween. The middle portion has a plurality of interconnected ball and socket pieces. A plurality of clamps are selectively fixedly connected to the distal end of the universal arm by a connection that permits the selective rotation of each one of the plurality of clamps by 360 with respect to the distal end of the universal arm.	AGBOD OE, Victor; STORZ, Olaf	10/21/2011	10/19/2012	4/25/2013

US2012015 0213	MEDICAL COMPRESSION DEVICE	Gordon, Charles Samuel Squire	12/10/2010	12/9/2011	6/14/2012	
EP2648626	A MEDICAL COMPRESSION DEVICE	Gordon, Charles Samuel	12/10/2010	12/9/2011	10/16/2013	
TW201235 001	Medical compressio n device	A compression apparatus having a tension device configured to be secured relative to a work area. A compression member is adjustably coupled to the tension device. The compression member having a contact surface configured to apply pressure relative to an anatomical location.	GORDO N CHARL ES SAMUE L SQUIRE	12/10/2010	12/9/2011	9/1/2012
US2013009 9081	UNIVERS AL ARM SYSTEM	A universal arm has a proximal end, a distal end and a middle portion therebetween. The middle portion has a plurality of interconnected ball and socket pieces. A plurality of clamps are selectively fixedly connected to the distal end of the universal arm by a connection that permits the selective rotation of each one of the plurality of clamps by 360° with respect to the distal end of the universal arm.	Agbodoe , Victor; Storz, Olaf	10/21/2011	12/8/2011	4/25/2013
SMI0203.U S Serial No. 14/020,446	FEMORAL ELEVATO R				September 6, 2013	
SMI0203.E P Serial No. 41470878.4	FEMORAL ELEVATO R	We wish to file foreign protection in the countries listed below. 1. UK 2. France 3. Switzerland 4. Germany 5. Italy 6. Spain			June 3, 2014	
File No. SM-41 PCT Serial No. 61/730,536 Application Number PCT/US201 3/072352	Three Dimensiona l Tilt Ratchet with Self Retaining Mechanism (Ro-Tilt)	PCT filing receipt for the above mentioned patent application as filed on 11/27/2013. An Application Number PCT/US2013/072352 was assigned. The 30 month deadline for entering national phases is 5/28/2015.			Nov 28,2012	

Document No.	Title	Abstract	Inventors	Priority Date	File Date	Publish/Grant Date
WO/2013/101918	INSTRUMENT WITH REMOVABLE TIP	A laparoscopic instrument (10) is disclosed, including an elongated tube (12) defining a proximal portion and a distal portion; an end effector (14) removably coupled to the distal portion, the end effector including first and second elements pivotably coupled to one another; an anchor (20) coupled to the tube and a pivot point (22) of the end effector to restrict axial movement of the end effector; and a sleeve (30) movably coupled to the tube, where the sleeve is slidable across at least a portion of the end effector to secure the end effector to the tube.		12/27/2011	12/27/2012	7/4/2013
US20130118324	METHOD FOR FASTENING A TOOL HANDLE TO A TOOL SHAFT	A method for fastening a tool handle to a tool shaft includes the following steps. First, providing a tool shaft comprising an elongated body having a proximal end and a distal end. Next, providing a tool handle comprising a distal end, a proximal end and a socket formed at the distal end. Next, inserting the proximal end of the tool shaft into the socket of the tool handle, and then staking the proximal end of the tool shaft to the tool handle from two opposite directions.	Gowin Jr., Leo F.	11/10/2011	11/6/2012	5/16/2013
WO/2014/003746	SUTURE CUTTER	An improved suture cutter for cutting high strength sutures used in arthroscopic surgeries includes a movable handle that moves rotationally around a pivot. This rotational motion is translated through a linkage into near linear movement at the distal end of a moving member. At the distal end, the moving member pushes a cutting blade onto an inclined stationary blade and thereby cuts a suture captured between the moving cutting blade and the inclined stationary	GRIFFITH HS, Jerry, R.	6/27/2012	6/28/2012	1/3/2014

		blade.				
US2014000 5689	SUTURE CUTTER	An improved suture cutter for cutting high strength sutures used in arthroscopic surgeries includes a movable handle that moves rotationally around a pivot. This rotational motion is translated through a linkage into near linear movement at the distal end of a moving member. At the distal end, the moving member pushes a cutting blade onto an inclined stationary blade and thereby cuts a suture captured between the moving cutting blade and the inclined stationary blade.	Griffiths, Jerry R.	6/27/2012	6/27/2012	1/2/2014
US2013016 5907	INSTRUM ENT WITH REMOVA BLE TIP	A laparoscopic instrument is disclosed, including an elongated tube defining a proximal portion and a distal portion; an end effector removably coupled to the distal portion, the end effector including first and second elements pivotably coupled to one another; an anchor coupled to the tube and a pivot point of the end effector to restrict axial movement of the end effector; and a sleeve movably coupled to the tube, where the sleeve is slidable across at least a portion of the end effector to secure the end effector to the tube.	Attar, Matthew J.; Jacene, Michael; Griffiths, Jerry R.; Gowin, Leo; Johnson, Christop her; Marini, Louis J.	12/27/2011	12/27/2011	6/27/2013
US2009015 7104	SURGICA L ROTARY CAPTURE INSTRUM ENT FOR GASTRIC BAND CLOSING	An endoscopic surgical rotary capture instrument is used in minimally invasive laparoscopic surgery for closing a gastric band having a buckle end a free end. The rotary capture instrument includes a pusher end that has a stationary jaw and a movable jaw. The movable jaw is actuated by rotary motion of an inner shaft. The jaws are used to grasp securely and push the tube end of the gastric band after it has been threaded through the buckle end of the band. A hook instrument is used to hold the buckle end securely while the	Jones, Daniel B.; Griffiths, Jerry R.; Difrance sco, Francis J.	12/22/2005	2/13/2009	6/18/2009

		rotary capture instrument is used to push the free end of the gastric band.				
File No. TNCO-28 Serial No. 12/370,956 Issue No. 2009015710 4	SURGICAL ROTARY CAPTURE INSTRUMENT FOR GASTRIC BAND CLOSING	On Appeal -- Awaiting Decision by the Board of Appeals - 8-22-2013			2/13/2009	

LICENSES

BOOKWALTER LICENSE AGREEMENT	LICENSING	3/1/2005
BOOKWALER AMENDMENT	LICENSING	11/1/2007
GREENBERG LICENSE AGREEMENT	LICENSING	10/1/2006
HARDY LICENSE AGREEMENT	LICENSING	4/12/2002
MAGRINA LICENSE AGREEMENT	LICENSING	7/1/1989
RHOTAN LICENSE AGREEMENT	LICENSING	10/2/1975
HARDY AMENDMENT	LICENSING	12/1/2011
RHOTAN AMENDMENT	LICENSING	2/9/2006
SYNERGETICS LICENSE AGREEMENT	LICENSING	1/1/2009
SPETZLER LICENSE AGREEMENT	LICENSING	1/8/1987
HILLWAY LICENSE AGREEMENT	LICENSING	5/24/1996
RHOTAN AMENDMENT	LICENSING	12/8/2011
HARDY AMENDMENT	LICENSING	12/1/2011
BOOKWALTER AMENDMENT	LICENSING	12/8/2011
STERILIZATION CONTAINER ASSIGNMENT	LICENSING	6/7/2011
HILLWAY LICENSE AGREEMENT	LICENSING	8/30/1988
HEMITEK	LICENSING	12/29/1995

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RECORDED: 11/20/2015

PATENT
REEL: 037150 FRAME: 0527