

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT3167863

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	RAYTHEON COMPANY	11/14/2014
RECEIVING PARTY DATA		
Name:	SARCOS LC	
Street Address:	2458 S. PROMONTORY DR.	
City:	SALT LAKE CITY	
State/Country:	UTAH	
Postal Code:	84109-1468	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	13800851	
CORRESPONDENCE DATA		
Fax Number:	(801)566-0750	
<i>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.</i>		
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Email:	rich@tnw.com, cause@tnw.com	
Correspondent Name:	CHRISTOPHER L. JOHNSON	
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ATTORNEY DOCKET NUMBER:	4000-12.3366.US.NP	
NAME OF SUBMITTER:	CHRISTOPHER L. JOHNSON	
SIGNATURE:	/Christopher L. Johnson/	
DATE SIGNED:	01/02/2015	
Total Attachments: 17 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif		

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A S S I G N M E N T

WHEREAS, Raytheon Company ("Assignor"), a corporation organized and existing under the laws of the State of Delaware, is the owner of the invention disclosures, patent applications and patents set forth in the attached Schedule A ("Patent Assets"). In the event that any of the data in Schedule A are missing or are incorrect at the time this document is executed, Assignor hereby authorizes and request an attorney of Assignee to insert above missing or corrected information; and

WHEREAS, Sarcos, LC ("Assignee"), a corporation organized and existing under the laws of Utah, and located in Salt Lake City, UT, desires to acquire Assignor's right, title, and interest in and to the Patent Assets.

NOW THEREFORE, for good and valuable consideration, including a license back to Assignor, granted pursuant to the Asset Purchase Agreement dated December 3, 2014 between Assignor and Assignee, including all exhibits thereto, as amended, collectively the "Transaction Documents", the receipt and sufficiency of which are hereby acknowledged by the Assignor, the Assignor does hereby, without reservation:

1. Assign, transfer and convey to Assignee the entire right, title and interest in and to said Patent Assets, which includes all inventions described in said Patent Assets, and any and all other domestic and foreign patents and patent applications supported by the Patent Assets (including any and all divisional, continuation, continuation-in-part, and reissue patent applications);
2. Assign, transfer and convey to Assignee all its rights to sue for past infringement of said Patent Assets and to recover any and all damages and awards for such infringement;
3. Authorize Assignee to continue prosecution of any application in said Patent Assets in its corresponding country in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;
4. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Patent Assets to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct; and
5. Bind Assignor's heirs, legal representatives and assigns, as well as itself, to do, upon Assignee's reasonable request, all acts reasonably serving to assure that said Patent Assets shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by Assignor, its heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be reasonably requested by Assignee.

WHEREIN, the Assignor has executed this Assignment as of the date written below.

[Signatures on following page]

PATENT ASSIGNMENT
Raytheon Company to Sarcos, LC

Raytheon Company

[Signature]

Name: F. Kinsey Haffner

Title: Vice President Intellectual
Property & Licensing

Date: November 14, 2014

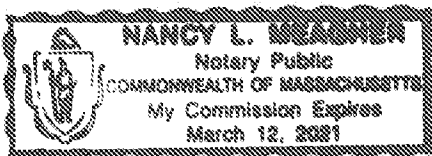
State or Commonwealth of Massachusetts

County Middlesex

Dated November 14, 2014

On this 14th day of November, 2014, before me appeared F. Kinsey Haffner
(Name of Signatory)

to me known and known to me as the person described in and who executed the foregoing
instrument, and he/she acknowledged the same to be his/her free act and deed.



[Signature]
Notary Public

Nancy L. Meagher
Printed Name of Notary Public

Place Notary Seal and/or Any Stamp Above

My Commission Expires 3/12/2021

PATENT ASSIGNMENT
Raytheon Company to Sarcos, LC

Schedule A
Patent Assets

<u>Raytheon Ref.</u>	<u>TNW Ref.</u>	<u>Title</u>	<u>Application Number</u>	<u>Patent Number</u>
07E313-EP-EPT		ANTAGONISTIC FLUID CONTROL SYSTEM FOR ACTIVE AND PASSIVE ACTUATOR OPERATION	08731006.6	
07E313-JP-PCT	2865-23727.PCT.JP	ANTAGONISTIC FLUID CONTROL SYSTEM FOR ACTIVE AND PASSIVE ACTUATOR OPERATION	2009-551856	5232177
07E313-US-NP	2865-23727.NP	ANTAGONISTIC FLUID CONTROL SYSTEM FOR ACTIVE AND PASSIVE ACTUATOR OPERATION	12/074260	8061261
07E314-CN-PCT	2865-24143.PROV.PCT.CN	QUANTUM FLUID TRANSFER SYSTEM	200880023774.9	ZL 200880023774.9
07E314-EP-EPT	2865-24143.PROV.PCT.EP	QUANTUM FLUID TRANSFER SYSTEM	08769330.5	
07E314-IN-PCT		QUANTUM FLUID TRANSFER SYSTEM	2271/MUMNP/2009	
07E314-JP-PCT	2865-24143.PROV.PCT.JP	QUANTUM FLUID TRANSFER SYSTEM	2010-507656	
07E320-US-NP	2865-22443.NP	CONTACT DISPLACEMENT ACTUATOR SYSTEM	11/879448	
07E314-US-NP	2865-24143.NP	QUANTUM FLUID TRANSFER SYSTEM	12/151974	8245728
07E316-DE-EPT	2865-T5755.CIP.PCT.EP.D E	CONTROLLABLE COMBUSTION METHOD AND DEVICE	03728498.1	60344116.5
07E316-FR-EPT	2865-T5755.CIP.PCT.EP.F R	CONTROLLABLE COMBUSTION METHOD AND DEVICE	03728498.1	1488087
07E316-GB-EPT	2865-T5755.CIP.PCT.EP.G B	CONTROLLABLE COMBUSTION METHOD AND DEVICE	03728498.1	1488087
07E316-US-CIP	2865-T5755.CIP	CONTROLLABLE COMBUSTION METHOD AND DEVICE	10128988	6,938,588
07E316-US-NP	2865-T5755	CONTROLLABLE COMBUSTION METHOD AND DEVICE	09439473	6,375,454
07E317-CN-PCT	2865-T8719	RESONANT ELECTRICAL GENERATION SYSTEM	3804794.2	ZL03804794.2
07E317-EP-EPT	2865-T8719	RESONANT ELECTRICAL GENERATION SYSTEM	03743715.9	
07E317-KR-PCT	2865-T8719	RESONANT ELECTRICAL GENERATION SYSTEM	10-2004-7012768	0986900
07E317-US-CIP	2895-T8719	RESONANT ELECTRICAL GENERATION SYSTEM	10086640	6,876,094

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<u>Raytheon Ref.</u>	<u>TNW Ref.</u>	<u>Title</u>	<u>Application Number</u>	<u>Patent Number</u>
07E318-US-DIV	T9923.DIV	RAPID RESPONSE POWER CONVERSION DEVICE (FORMERLY WEARABLE ENERGETICALLY AUTONOMOUS ROBOTS)	11259365	7,210,430
07E318-US-NP	T9923.NP	RAPID RESPONSE POWER CONVERSION DEVICE (FORMERLY WEARABLE ENERGETICALLY AUTONOMOUS ROBOTS)	10190336	6,957,631
07E318-US-NP-2	T9923.NP	RAPID RESPONSE POWER CONVERSION DEVICE (FORMERLY WEARABLE ENERGETICALLY AUTONOMOUS ROBOTS)	10903759	7,066,116
07E320-CN-PCT	2865- 22443.NP.PCT.CN	CONTACT DISPLACEMENT ACTUATOR SYSTEM	200780027195.7	
07E320-EP-EPT	2865- 22443.NP.PCT.EP	CONTACT DISPLACEMENT ACTUATOR SYSTEM	07872565.2	
07E320-EP-ETD	2865- 22443.NP.PCT.EP.DI V	CONTACT DISPLACEMENT ACTUATOR SYSTEM	13156628.3	
07E320-JP-PCD	2865- 22443.NP.PCT.JP.DI V	CONTACT DISPLACEMENT ACTUATOR SYSTEM	2012-248425	
07E320-JP-PCT	2865- 22443.NP.PCT.JP	CONTACT DISPLACEMENT ACTUATOR SYSTEM	2009-520827	5420405
07E320-KR-PCT	2865-22443	CONTACT DISPLACEMENT ACTUATOR SYSTEM	10-2009-7003178	
07E322-JP-PCT	2865-T5335.PCT.JP	BAND CONTROLLED VALVE/ACTUATOR	503274199	4384267
07E322-JP-PCT-2	2865- T5335.PCT.JP.DIV	BAND CONTROLLED VALVE/ACTUATOR	2009-093539	5079732
07E322-US-DIV-2	2865-T5335	BAND CONTROLLED VALVE/ACTUATOR	09456115	6,253,659
07E322-US-DIV-3	2865-T5335	BAND CONTROLLED VALVE/ACTUATOR	09466859	6,273,137
07E322-US-DIV-4	2865-T5335	BAND CONTROLLED VALVE/ACTUATOR	09466553	6,173,640
07E322-US-DIV-5	2865-T5335	BAND CONTROLLED VALVE/ACTUATOR	09466552	6,196,111
07E322-US-DIV-6	2865-T5335	BAND CONTROLLED VALVE/ACTUATOR	09466551	6,173,641
07E322-US-NP	2865-T5335	BAND CONTROLLED VALVE/ACTUATOR	08873576	6,039,075
07E325-JP-PCT	2865-23734.NP	DYNAMIC MASS TRANSFER RAPID RESPONSE POWER CONVERSION SYSTEM	2007-544557	5020092

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<u>Raytheon Ref.</u>	<u>TNW Ref.</u>	<u>Title</u>	<u>Application Number</u>	<u>Patent Number</u>
07E325-US-NP	2865-23734.NP	DYNAMIC MASS TRANSFER RAPID RESPONSE POWER CONVERSION SYSTEM	11293621	7,363,887
07E326-EP-EPT	2865-25731.PCT.EP	ELECTRICAL MICROFILAMENT TO CIRCUIT INTERFACE	06847580.5	
07E326-JP-PCT	2865-25731.PCT.JP	ELECTRICAL MICROFILAMENT TO CIRCUIT INTERFACE	2008-545751	5478890
07E326-US-CNT	2865-25731	ELECTRICAL MICROFILAMENT TO CIRCUIT INTERFACE	12/615202	8026447
07E326-US-NP	2865-25731	ELECTRICAL MICROFILAMENT TO CIRCUIT INTERFACE	11637380	7626123
07E326-US-NP[2]	2865-25731.CON.DIV	ELECTRICAL MICROFILAMENT TO CIRCUIT INTERFACE	13/213001	8217269
07E327-AE-PCT	2865-24146 AE	FIRST-STAGE PILOT VALVE	746/2009	
07E327-CN-PCT	2865- 24146.PROV.PCT.CN	FIRST-STAGE PILOT VALVE	200880012950.9	
07E327-EP-EPT	2865-24146	FIRST-STAGE PILOT VALVE	08730574.4	
07E327-IL-PCT	2865- 24146.PROV.PCT.IL	FIRST-STAGE PILOT VALVE	200518	200518
07E327-IN-PCT	2865- 24146.PROV.PCT.IN	FIRST-STAGE PILOT VALVE	1745/MUMNP/2009	
07E327-JP-PCT	2865- 24146.PROV.PCT.JP	FIRST-STAGE PILOT VALVE	2009-551050	
07E327-US-NP	2865-24146.NP	FIRST-STAGE PILOT VALVE	12/072126	8640723
07E328-US-NP	2865-22714.NP	FLOW FORCE COMPENSATED SLEEVE VALVE	11292908	7,438,277
07E330-EP-EPT		FLUID CONTROL SYSTEM HAVING SELECTIVE RECRUITABLE ACTUATORS	08731012.4	
07E330-JP-PCT	2865-23728.PCT.JP	FLUID CONTROL SYSTEM HAVING SELECTIVE RECRUITABLE ACTUATORS	2009-551859	5460335
07E330-US-NP	2865-23728	FLUID CONTROL SYSTEM HAVING SELECTIVE RECRUITABLE ACTUATORS	12/074261	8051764
07E336-EP-EPT	2865- 24688.NP.PCT.EP	MULTI-CELL ELECTRONIC CIRCUIT ARRAY AND METHOD OF MANUFACTURING (FLEXIBLE DISPLAY)	06849944.1	
07E336-JP-PCD	2865- 24688.NP.PCT.JP.DI V	MULTI-CELL ELECTRONIC CIRCUIT ARRAY AND METHOD OF MANUFACTURING (FLEXIBLE DISPLAY)	2012-147073	5320493

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07E336-JP-PCT	2865-24688.NP.PCT.JP	MULTI-CELL ELECTRONIC CIRCUIT ARRAY AND METHOD OF MANUFACTURING (FLEXIBLE DISPLAY)	2008-545753	5478891
07E336-US-NP	2865-24688.NP	MULTI-CELL ELECTRONIC CIRCUIT ARRAY AND METHOD OF MANUFACTURING (FLEXIBLE DISPLAY)	11/637379	7999471
08E203-US-PCT	2865-25026.PROV.PCT.US	METHOD OF SIZING ACTUATORS FOR A BIOMIMETIC MECHANICAL JOINT	13/061472	
07E338-CN-PCT	2865-20070329.PCT.CN	PRESSURE CONTROL VALVE HAVING AN ASSYMETRIC VALVING STRUCTURE	200880104442.3	ZL200880104442.3
07E338-EP-EPT	2865.20070329.PCT.EP	PRESSURE CONTROL VALVE HAVING AN ASSYMETRIC VALVING STRUCTURE	08771844.1	
07E338-IL-PCT	2865-20070329.PCT.IL	PRESSURE CONTROL VALVE HAVING AN ASSYMETRIC VALVING STRUCTURE	202999	
07E338-IN-PCT	2865.20070329.PCT.IN	PRESSURE CONTROL VALVE HAVING AN ASSYMETRIC VALVING STRUCTURE	179/MUMNP/2010	
07E338-JP-PCT	2865-20070329.PCT.JP	PRESSURE CONTROL VALVE HAVING AN ASSYMETRIC VALVING STRUCTURE	2010-515041	5232227
07E338-US-NP	20070329	PRESSURE CONTROL VALVE HAVING AN ASSYMETRIC VALVING STRUCTURE	11/824540	7779863
07E339-CN-PCT	2865-23726.NP.PCT.CN	PRESSURE CONTROL VALVE HAVING INTRINSIC FEEDBACK SYSTEM	200580047588.5	ZL200580047588.5
07E339-US-NP	2865-23726.NP	PRESSURE CONTROL VALVE HAVING INTRINSIC FEEDBACK SYSTEM	11293413	7,308,848
07E340-DE-EPT	2865-23835.NP.PCT.EP.DE	PRESSURE CONTROL VALVE HAVING INTRINSIC MECHANICAL FEEDBACK SYSTEM	05848587.1	6020050450786.3
07E340-FR-EPT	2865-23835.NP.PCT.EP.FR	PRESSURE CONTROL VALVE HAVING INTRINSIC MECHANICAL FEEDBACK SYSTEM	05848587.1	1828621
07E340-GB-EPT	2865-23835.NP.PCT.EP.GB	PRESSURE CONTROL VALVE HAVING INTRINSIC MECHANICAL FEEDBACK SYSTEM	05848587.1	1828621
07E340-US-NP	2865-23835.NP	PRESSURE CONTROL VALVE HAVING INTRINSIC MECHANICAL FEEDBACK SYSTEM	11293726	7,284,471

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<u>Raytheon Ref.</u>	<u>TNW Ref.</u>	<u>Title</u>	<u>Application Number</u>	<u>Patent Number</u>
07E340-US-NP-2	23835.NP.CON	PRESSURE CONTROL VALVE HAVING INTRINSIC MECHANICAL FEEDBACK SYSTEM	11977425	7,509,905
07E344-EP-EPT	2865- 25084.NP.PCT.EP	ULTRA-HIGH DENSITY CONNECTOR	06845304.2	
07E344-JP-PCD	2865- 25084.NP.PCT.JP.DI V	ULTRA-HIGH DENSITY CONNECTOR	2012-000266	
07E344-JP-PCT	2865-25084.NP.	ULTRA-HIGH DENSITY CONNECTOR	2008-545752	4939547
07E344-US-CNT	25084.NP.CON	ULTRA-HIGH DENSITY CONNECTOR	12/070580	7680377
07E344-US-NP	2865-25084.NP	ULTRA-HIGH DENSITY CONNECTOR	11637509	7,333,699
08E289-US-PCT	2865- 20080627.PROV.PCT. US	CONTROL LOGIC FOR BIOMIMETIC JOINT ACTUATORS	13/061488	
08E037-US-NP	2865-20061002.1	MICRO MOTOR	12/959159	8558489
08E040-US-NP	2865-25457.NP	LIQUID MISSILE PROJECTILE FOR BEING LAUNCHED FROM A LAUNCHING DEVICE	12/814434	
08E041-US-NP	2865-25681.NP	TARGET-SPECIFIC FIRE FIGHTING DEVICE FOR LAUNCHING A LIQUID CHARGE AT A FIRE	12/814435	
08E039-US-NP	2865-25036	ELECTROSPRAY DELIVERY DEVICE (CHAP AF: ELECTROSPRAY NEEDLE CONFIGURATION)	12/959170	
08E202-US-NP	2865-25035	ELECTROSPRAY DISPENSING SYSTEM (CHAP AF: ELECTROSPRAY RADIAL CONFIGURATION)	12/959177	
10PF-131-US-NP	2865-20060731.01	Regenerative Hydraulic Pump	12/959198	
08E204-AE-PCT	2865- 25027.PROV.PCT.AE	BIOMIMETIC MECHANICAL JOINT	191/2011	
08E204-EP-EPT	2865- 25027.PROV.PCT.EP	BIOMIMETIC MECHANICAL JOINT	09741067.4	
08E204-IL-PCT	2865- 25027.PROV.PCT.IL	BIOMIMETIC MECHANICAL JOINT	211446	
08E204-IN-PCT	2865- 25027.PROV.PCT.IN	BIOMIMETIC MECHANICAL JOINT	579/MUMNP/2011	
08E204-JP-PCT	2865.25027.PROV.PC T.JP	BIOMIMETIC MECHANICAL JOINT	2011-525252	
08E204-US-PCT	2865- 25027.PROV.PCT.US	A BIOMIMETIC MECHANICAL JOINT	13/061482	8516918

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10-1405-US-NP	2865-20110418.1.NP	Teleoperated Robotic System	13/332165	
10-1420-US-NP	2865-20110418.2.NP	SYSTEM AND METHOD FOR CONTROLLING A TELE-OPERATED ROBOTIC AGILE LIFT SYSTEM	13/332152	
10-1422-US-NP	2865-20110418.6.NP	Variable Strength Magnetic End Effector for Lift Systems	13/332160	
10-1424-US-NP	2865-20110418.3	Platform Perturbation Compensation	13/332138	
11-1560-US-NP	2865-20110418.4.NP	Robotic Agile Lift System with Extremity Control	13/332146	
10-1405-CN-PCT	2865-20110418.1.PCT.CN	Teleoperated Robotic System	201280031812.1	
10-1405-EP-EPT	2865-20110418.1.PCT.EP	Teleoperated Robotic System	12720349.5	
10-1405-GC-NP	2865-20110418.1	Teleoperated Robotic System	2012/21153	
10-1405-IN-PCT	2865-20110418.1.PCT.IN	Teleoperated Robotic System	2134/MUMNP/2013	
10-1405-JP-PCT	2865-20110418.1.PCT.JP	Teleoperated Robotic System	2014-508144	
11-1627-US-NP	2865-20110418.5.NP	MULTI-DEGREE OF FREEDOM TORSO SUPPORT FOR A ROBOTIC AGILE LIFT SYSTEM	13/332129	
10-1420-GC-NP	2865-20110418.2.GCC	SYSTEM AND METHOD FOR CONTROLLING A TELE-OPERATED ROBOTIC AGILE LIFT SYSTEM	2012/21144	
11PF-191-US-NP	2865-20110316.2.NP	Robotic Lift Device with Human Interface Operation	13/421612	
10-1422-GC-NP	2865-20110418.6.GCC	Variable Strength Magnetic End Effector for Lift Systems	2012/21133	
11-2216-US-NP	2865-11.2216.US.NP	Equestrian Performance Sensing System	13/453908	
10-1424-GC-NP	2865-20110418.3.GCC	Platform Perturbation Compensation	2012/21134	
07E314-US-CNT	2865-24143.NP.CON	QUANTUM FLUID TRANSFER SYSTEM	13/590007	
08E201-US-NP	2865-23825	Noise Reduced Supercharged Internal Combustion Engine	Invention Disclosure only	
08E208-US-NP	2865-23725	Modular Rapid Response Power Control System	Invention Disclosure only	
08E212-US-NP	2865-25547.NP	Foot Loaded Non-Linear Filter	Invention Disclosure only	
08E216-US-NP	2865-25032	Wear Control: Adaptive Non-Linear Filter	Invention Disclosure only	
11-1560-GC-NP	2865-20110418.4.GCC	Robotic Agile Lift System with Extremity Control	2012/21132	
11-1627-GC-NP	2865-20110418.5.GCC	MULTI-DEGREE OF FREEDOM TORSO SUPPORT FOR A ROBOTIC AGILE LIFT SYSTEM	2012/21135	

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<u>Raytheon Ref.</u>	<u>TNW Ref.</u>	<u>Title</u>	<u>Application Number</u>	<u>Patent Number</u>
10PF-136-US-NP	2865-T3469	Tactile Sensing Method and Apparatus	Invention Disclosure only	
10PF-143-US-NP	2865-T4444	Apparatus and Method for Mobility Control and Haptic Display in Virtual Environments	Invention Disclosure only	
11-2216-WO-PCT	2865-11.2216.WO.PCT	Equestrian Performance Sensing System	PCT/US13/37825	
11PF-190-EP-EPT	2865-11PF.190.EP.EPT	Robotic Mobile Low-Profile Transport Vehicle	12712185.3	
11PF-190-GC-NP	2865-11PF-190GC	Robotic Mobile Low-Profile Transport Vehicle	2012-20772	
11PF-190-US-CNT	2865-11PF.190.US.CNT	Robotic Mobile Low-Profile Transport Vehicle	14/188628	
12-3352-US-NP	2865-12.3352.US.NP	HAND CONTROL DEVICE FOR CONTROLLING A PERIPHERAL SYSTEM	13/665697	
12-3365-US-NP	2865-12.3365.US.NP	LINEAR/ROTARY MOTION TRANSFORMING DEVICE	13/800582	
12-3366-US-NP	2865-12.3366.US.NP	ROTARY ACTUATION MECHANISM	13/800851	
10PF-157-US-NP	2865-25037	Chap AF: Electrospray Fuel Distribution Control	Invention Disclosure only	
12-3222-US-NP	2865-12.3222.US.NP	END EFFECTOR FOR A ROBOTIC ARM	13/841006	
13-4687-US-NP		PROBE FOR DETECTING UNDERGROUND SUBSTANCES, AND METHOD	14/037655	
11-2256-US-NP		Resistance-Based Force-Reflective Master	Invention Disclosure only	
11-2261-US-PSP		Energy-Efficient Exoskeleton with Gravity Compensating Bow Spring for Extremities	61/989427	
13-5357-US-NP		Robotic Hand	Invention Disclosure only	
14-5930-US-PSP		Energy Efficient Actuator Recruitment	61/989513	
14-5931-US-PSP		Variable Hydraulic Pressure	61/989517	
14-5932-US-PSP		Forward-Oriented Exoskeleton	61/989521	
11PF-162-DE-PCT	00729-T7947.PCT.DE	Rotary Displacement System Using Differential Measuring	10084635.1	
11PF-162-GB-PCT	00729-T7947.PCT.GB	Rotary Displacement System Using Differential Measuring	128094	2364573
11PF-162-JP-PCT	2865-T7947.PCT.JP	Rotary Displacement System Using Differential Measuring	2001-500186	4693318
11PF-162-US-NP	00729-T7947	Rotary Displacement System Using Differential Measuring	09/320593	6170162
11PF-163-DE-EPA	00729-T3359.EP.DE	Strain Transducer Apparatus and Method	98309520.9	69822097.8
11PF-163-FR-EPA	00729-T3359.EP.FR	Strain Transducer Apparatus and Method	98309520.9	922935

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<u>Raytheon Ref.</u>	<u>TNW Ref.</u>	<u>Title</u>	<u>Application Number</u>	<u>Patent Number</u>
11PF-163-GB-EPA	2865-T3359.EP.GB	Strain Transducer Apparatus and Method	98309520.9	922935
11PF-163-JP-NP	2865-T3359.JP	Strain Transducer Apparatus and Method	337684/98	4261653
11PF-163-US-NP	00729-T3359	Strain Transducer Apparatus and Method	08/980325	5936411
11PF-164-US-CIP		Multipathway Electronically-Controlled Drug Delivery System	08/957520	6045534
11PF-164-US-CIP[2]		Multipathway Electronically-Controlled Drug Delivery System	09/165164	6086562
11PF-164-US-DIV	00729-T2692.DIV	Multipathway Electronically-Controlled Drug Delivery System	09/232579	6165155
11PF-164-US-NP		Multipathway Electronically-Controlled Drug Delivery System	08/797295	5860957
11PF-195-US-NP	2865-T2869	Articulated, Stacked-Plate Artificial Body Part	08/956207	5941914
11PF-196-US-CIP	00729-T3392.CIP2	Apparatus for Automatic Administration of Multiple Doses of Drugs	09/098056	6010492
13PF-242-CN-PCT	2865-24144.PROV.PCT.CN	Micro Fluid Transfer System	200880012972.5	ZL200880012972.5
11-2249		Low-Profile Transport System with Separable Articulating Linkage	Invention Disclosure only	
11-2250		Control Logic for a Low-Profile Transport System: Follow Along; GPS-based; AI-based; Remotely Piloted	Invention Disclosure only	
11-2251		Control Primitives for a Low-Profile Transport System	Invention Disclosure only	
11-2252		Low-Profile Medical Evacuation Transport System	Invention Disclosure only	
11-2253		Low-Profile Transport and Launch System	Invention Disclosure only	
11-2254		Low-Profile Transport System with a Gravity Compensating Platform	Invention Disclosure only	
11-2257		Extraneous Wire Reduction Coupler for an Ultra-High Density Connector	Invention Disclosure only	
11-2258		Electrical Extraneous Wire Coupler for an Ultra-High Density Connector	Invention Disclosure only	
11-2262		Energy-Efficient Exoskeleton with Gravity Compensating Extremity Joints	Invention Disclosure only	

<u>Raytheon Ref.</u>	<u>TNW Ref.</u>	<u>Title</u>	<u>Application Number</u>	<u>Patent Number</u>
07E319-AE-PCT	2865-25730 AE	CONFORMABLE TRACK ASSEMBLY FOR A ROBOTIC CRAWLER	440/2009	

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Raytheon Ref.	TNW Ref.	Title	Application Number	Patent Number
07E319-CN-PCT	2865- 25730.NP.PCT.CN	CONFORMABLE TRACK ASSEMBLY FOR A ROBOTIC CRAWLER	200780046168.4	ZL 200780046168.4
07E319-DE-EPT		CONFORMABLE TRACK ASSEMBLY FOR A ROBOTIC CRAWLER	07870871.6	602007013793
07E319-FR-EPT	2865- 25730.NP.PCT.EP.FR	CONFORMABLE TRACK ASSEMBLY FOR A ROBOTIC CRAWLER	07870871.6	2081814
07E319-GB-EPT	2865- 25730.NP.PCT.EP.GB	CONFORMABLE TRACK ASSEMBLY FOR A ROBOTIC CRAWLER	07870871.6	2081814
07E319-IL-PCT	2865- 25730.NP.PCT.IL	CONFORMABLE TRACK ASSEMBLY FOR A ROBOTIC CRAWLER	198670	198670
07E319-IN-PCT	2865- 25730.NP.PCT.IN	CONFORMABLE TRACK ASSEMBLY FOR A ROBOTIC CRAWLER	1133/MUMNP/2009	
07E319-JP-PCT	2865- 25730.NP.PCT.JP	CONFORMABLE TRACK ASSEMBLY FOR A ROBOTIC CRAWLER	2009-536334	
07E319-US-CNT	2865-25730.NP	CONFORMABLE TRACK ASSEMBLY FOR A ROBOTIC CRAWLER	12/765618	8205695
07E319-US-NP	2865-25730.NP	CONFORMABLE TRACK ASSEMBLY FOR A ROBOTIC CRAWLER	11/985324	8002365
07E329-US-NP	2865-21404.NP	RECONFIGURABLE ARTICULATED LEG & WHEEL	10720011	7,017,687
07E334-EP-EPT	2865- 24341.NP.PCT.EP	MODULAR ROBOTIC CRAWLER (INTERCHANGEABLE MODULES FOR A ROBOTIC SERPENTINE CRAWLER)	08826223.3	
07E334-IL-PCT	2865- 26141.NP.PCT.IL	MODULAR ROBOTIC CRAWLER (INTERCHANGEABLE MODULES FOR A ROBOTIC SERPENTINE CRAWLER)	203228	
07E334-IN-PCT	2865- 26141.NP.PCT.IN	MODULAR ROBOTIC CRAWLER (INTERCHANGEABLE MODULES FOR A ROBOTIC SERPENTINE CRAWLER)	263/MUMNP/2010	
07E334-JP-PCT	2865- 26141.NP.PCT.JP	MODULAR ROBOTIC CRAWLER (INTERCHANGEABLE MODULES FOR A ROBOTIC SERPENTINE CRAWLER)	2010-516242	5285701

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<u>Raytheon Ref.</u>	<u>TNW Ref.</u>	<u>Title</u>	<u>Application Number</u>	<u>Patent Number</u>
07E334-US-NP	2865-26141.NP	MODULAR ROBOTIC CRAWLER (INTERCHANGEABLE MODULES FOR A ROBOTIC SERPENTINE CRAWLER)	12/171146	8571711
07E341-AE-PCT	2865-25455 AE	SERPENTINE ROBOTIC CRAWLER	444/2009	
07E341-CN-PCD	2865- 25455.NP.PCT.CN	SERPENTINE ROBOTIC CRAWLER	201110079853.5	
07E341-CN-PCT	2865- 25455.NP.PCT.CN	SERPENTINE ROBOTIC CRAWLER	200780049718.8	ZL 200780049718.8
07E341-DE-EPT	2865- 25455.NP.PCT.EP.DE	SERPENTINE ROBOTIC CRAWLER	07870883.1	602007029758.3
07E341-DE-ETD	2865- 25455.NP.PT.EP.DV. DE	SERPENTINE ROBOTIC CRAWLER	12183386.7	602007035620.2
07E341-FR-EPT	2865- 25455.NP.PCT.EP.FR	SERPENTINE ROBOTIC CRAWLER	07870883.1	2082159
07E341-FR-ETD	2865- 25455.NP.PT.EP.DV. FR	SERPENTINE ROBOTIC CRAWLER	12183386.7	2549165
07E341-GB-EPT	2865- 25455.NP.PCT.EP.GB	SERPENTINE ROBOTIC CRAWLER	07870883.1	2082159
07E341-GB-ETD	2865- 25455.NP.PT.EP.DV. GB	SERPENTINE ROBOTIC CRAWLER	12183386.7	2549165
07E341-IL-PCD	2865- 25455.NP.PCT.IL.DI V	SERPENTINE ROBOTIC CRAWLER	222705	
07E341-IL-PCT	2865- 25455.NP.PCT.IL	SERPENTINE ROBOTIC CRAWLER	198710	198710
07E341-IN-PCT	2865- 25455.NP.PCT.IN	SERPENTINE ROBOTIC CRAWLER	1136/MUMNP/2009	
07E341-JP-PCT	2865- 25455.NP.PCT.JP	SERPENTINE ROBOTIC CRAWLER	2009-536347	
07E341-US-CNT	2865-25455.NP.CON	SERPENTINE ROBOTIC CRAWLER	12/820881	8042630
07E341-US-NP	2865-25455	SERPENTINE ROBOTIC CRAWLER	11/985323	7845440
07E342-EP-EPT	2865- 26140.NP.PCT.EP	SERPENTINE ROBOTIC CRAWLER HAVING A CONTINUOUS TRACK (SINGLE TRACK SERPENTINE CRAWLER (SUPERTRACK))	08826145.8	
07E342-IL-PCT	2865- 26140.NP.PCT.IL	SERPENTINE ROBOTIC CRAWLER HAVING A CONTINUOUS TRACK (SINGLE TRACK SERPENTINE CRAWLER (SUPERTRACK))	203227	
07E343-AE-PCT	2865- 25574.NP.PCT.AE	TRACKED ROBOTIC CRAWLER HAVING A MOVEABLE ARM	443/2009	
07E343-CN-PCT		TRACKED ROBOTIC CRAWLER HAVING A MOVEABLE ARM	200780049738.5	ZL200780049738.5
07E343-DE-EPT		TRACKED ROBOTIC CRAWLER HAVING A MOVEABLE ARM	07870880.7	2099672

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Raytheon Ref.	TNW Ref.	Title	Application Number	Patent Number
07E343-DE-ETD	2865- 25574.NP.PC.EP.DV. DE	TRACKED ROBOTIC CRAWLER HAVING A MOVEABLE ARM	11176735.6	602007032487.4
07E343-FR-EPT		TRACKED ROBOTIC CRAWLER HAVING A MOVEABLE ARM	07870880.7	2099672
07E343-FR-ETD	2865- 25574.NP.PC.EP.DV. FR	TRACKED ROBOTIC CRAWLER HAVING A MOVEABLE ARM	11176735.6	2476604
07E343-GB-EPT		TRACKED ROBOTIC CRAWLER HAVING A MOVEABLE ARM	07870880.7	2099672
07E343-GB-ETD		TRACKED ROBOTIC CRAWLER HAVING A MOVEABLE ARM	11176735.6	2476604
07E343-IL-PCT	2865- 25574.NP.PCT.IL	TRACKED ROBOTIC CRAWLER HAVING A MOVEABLE ARM	198711	198711
07E343-IN-PCT	2865- 25574.NP.PCT.IN	TRACKED ROBOTIC CRAWLER HAVING A MOVEABLE ARM	1135/MUMNP/2009	
07E343-IT-EPT		TRACKED ROBOTIC CRAWLER HAVING A MOVEABLE ARM	07870880.7	2099672
07E343-IT-ETD	2865- 25574.NP.PC.EP.DV.I T	TRACKED ROBOTIC CRAWLER HAVING A MOVEABLE ARM	11176735.6	2476604
07E343-JP-PCT	2865- 25574.NP.PCT.JP	TRACKED ROBOTIC CRAWLER HAVING A MOVEABLE ARM	2009-536343	5411702
07E343-US-NP		TRACKED ROBOTIC CRAWLER HAVING A MOVEABLE ARM	11/985336	8185241
07E345-AE-PCT	2865-26138 AE	UNMANNED GROUND ROBOTIC VEHICLE HAVING AN ALTERNATIVELY EXTENDIBLE AND RETRACTABLE SENSING APPENDAGE	441/2009	
07E345-DE-EPT	2865- 26138.NP.PCT.EP.DE	UNMANNED GROUND ROBOTIC VEHICLE HAVING AN ALTERNATIVELY EXTENDIBLE AND RETRACTABLE SENSING APPENDAGE	07873475.3	602007029762.1
07E345-FR-EPT	2865- 26138.NP.PCT.EP.FR	UNMANNED GROUND ROBOTIC VEHICLE HAVING AN ALTERNATIVELY EXTENDIBLE AND RETRACTABLE SENSING APPENDAGE	07873475.3	2092265
07E345-GB-EPT	2865- 26138.NP.PCT.EP.GB	UNMANNED GROUND ROBOTIC VEHICLE HAVING AN ALTERNATIVELY EXTENDIBLE AND RETRACTABLE SENSING APPENDAGE	07873475.3	2092265
07E345-IL-PCT	2865- 26138.NP.PCT.IL	UNMANNED GROUND ROBOTIC VEHICLE HAVING AN ALTERNATIVELY EXTENDIBLE AND RETRACTABLE SENSING APPENDAGE	198713	

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<u>Raytheon Ref.</u>	<u>TNW Ref.</u>	<u>Title</u>	<u>Application Number</u>	<u>Patent Number</u>
07E345-IN-PCT	2865-26138.NP.PCT.IN	UNMANNED GROUND ROBOTIC VEHICLE HAVING AN ALTERNATIVELY EXTENDIBLE AND RETRACTABLE SENSING APPENDAGE	1134/MUMP/2009	
08E005-US-NP	2865-26139.NP	POINT AND GO NAVIGATION SYSTEM AND METHOD	12/350693	8392036
08E016-US-DIV	2865-23543.NP.DIV	METHOD FOR MANUFACTURING A COMPLEX STRUCTURE	13/181380	8434208
08E016-US-NP	2865-23543.PRO	METHOD FOR MANUFACTURING A COMPLEX STRUCTURE	12/151730	8002716
08E038-AE-PCT	2865-20061909.3.PCT.AE	AMPHIBIOUS ROBOTIC CRAWLER	1255/2011	
08E038-EP-EPT	2865-20061909.3.PCT.EP	AMPHIBIOUS ROBOTIC CRAWLER	10744757.5	
08E038-US-NP	2865-20061909.3.NP	AMPHIBIOUS ROBOTIC CRAWLER	12/814302	8317555
08E023-US-NP	2865-20061909.4.NP	METHOD AND SYSTEM FOR DEPLOYING A SURVEILLANCE NETWORK	12/814304	
12-3215-US-NP	2865-12.3215.US.NP	SERPENTINE ROBOTIC CRAWLER	13/665669	
12-3215-WO-PCT	2865-12.3215.WO.PCT	SERPENTINE ROBOTIC CRAWLER	PCT/US13/67840	
11-2218-US-NP	2865-11.2218.US.NP	SERPENTINE ROBOTIC CRAWLER	13/481631	8393422
11-2218-WO-PCT	2865-11.2218.WO.PCT	SERPENTINE ROBOTIC CRAWLER	PCT/US13/42739	
12-3329-US-NP	2865-12.3329.US.NP	SERPENTING ROBOTIC CRAWLER FOR PERFORMING DEXTEROUS OPERATIONS	14/026284	
12-3330-US-NP		COORDINATED ROBOTIC CONTROL	14/196951	
11-2259		Tube-Negotiating Robotic Device	Invention Disclosure only	
11-2260		Control Logic for Tube-Negotiating Robotic Device	Invention Disclosure only	

<u>Raytheon Ref.</u>	<u>TNW Ref.</u>	<u>Title</u>	<u>Application Number</u>	<u>Patent Number</u>
12PF-220-CN-PCT	2890-T7076.D.NP.PCT.CN	Mini-Scope for Multi-Directional Imaging	200880023445.4	ZL 200880023445.4
12PF-220-EP-EPT	2865-T7076.D.NP.PCT.EP	Mini-Scope for Multi-Directional Imaging	08770221.3	2179317
12PF-220-JP-PCT	2865-T7076.D.NP.PCT.JP	Mini-Scope for Multi-Directional Imaging	2010-511330	5383672
12PF-220-US-CNT	2865-T7076.D.NP.CON	Mini-Scope for Multi-Directional Imaging	12/946442	8358462

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<u>Raytheon Ref.</u>	<u>TNW Ref.</u>	<u>Title</u>	<u>Application Number</u>	<u>Patent Number</u>
12PF-220-US-NP	2865-T7076.D.NP	Mini-Scope for Multi-Directional Imaging	11/810,702	7,835,074
12PF-227-CN-PCT	2865-T7076.O.NP.PCT.CN	Grin Lens Microscope System	200980102027.9	ZL 200980102027.9
12PF-227-EP-EPT	2865-T7076.O.NP.PCT.EP	Grin Lens Microscope System	09700944.3	
12PF-227-JP-PCT	2865-T7076.O.NP.PCT.JP	Grin Lens Microscope System	2010-542407	
12PF-227-US-NP	2865-T7076.O.NP	Grin Lens Microscope System	12/008,486	7,969,659
12PF-228-CN-PCT	2865-T7076.Q.PCT.CN	Transparent Endoscope Head Defining a Focal Length	200980132041.3	
12PF-228-EP-EPT	2865-T7076.Q.PCT.EP	Transparent Endoscope Head Defining a Focal Length	09767750.4	
12PF-228-JP-PCT	2865-T7076.Q.PCT.JP	Transparent Endoscope Head Defining a Focal Length	2011-514815	
12PF-228-US-NP	2865-T7076.Q.NP	Transparent Endoscope Head Defining a Focal Length	12/487495	8690762
13PF-256-US-NP	2865-T7076.J.NP	Method and Device for Incremental Wavelength Variation to Analyze Tissue	12/512188	8486735
13PF-256-US-CNT	2865-T7076.J.NP.CON	Method and Device for Incremental Wavelength Variation to Analyze Tissue	13/940791	
13PF-258-US-NP	2865-T7076.F.NP	Method and Apparatus for Manipulating Movement of a Micro-Catheter	12/896,732	
13PF-259-US-NP	2865-T7076.P.NP	Light Diffusion Apparatus	12/896,743	
13PF-260-US-NP	2865-T7076.T.NP	Method and Device for Wavelength Shifted Imaging	12/611,776	
13PF-261-US-NP	2865-T7076.L.NP	Suture Device and Method for Closing a Planar Opening	12/938,672	
13PF-265-US-NP	2865-T7076.B.NP	Miniaturized Imaging Device Including Utility Aperture and SSID	10/391,490	7,787,939
13PF-266-JP-PCD	2865-T7076.NP.PCT.JP.DIV	Miniaturized Imaging Device With Integrated Circuit Connector System	2009-195048	4903844
13PF-266-US-DIV[2]	2865-T7076.NP.DIV2	Miniaturized Imaging Device with Integrated Circuit Connector System	12/079,741	7,629,659
13PF-266-US-NP	2865-T7076.NP	Miniaturized Imaging Device With Integrated Circuit Connector System	10/391,513	7,591,780

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Raytheon Ref.	TNW Ref.	Title	Application Number	Patent Number
13PF-268-US-NP	2865-T7076.G.NP	Needle Delivered Imaging Device	12/896731	
13PF-269-US-DIV	2865-T7076.E.NP.DIV	Method and Apparatus for Viewing a Body Cavity	13/966030	
13PF-270-US-CNT	2865-T7076.A.NP.CON	Miniaturized Imaging Device Including GRIN Lens Optically Coupled to SSID	12/792562	8614768
13PF-272-US-PSP	2890-T7076.R.PROV	Miniature Endoscope Balloon for Creating an Imaging Environment	Invention Disclosure only	

Raytheon Ref.	TNW Ref.	Title	Application Number	Patent Number
07E312-US-CIP	T6954.CIP	COMPACT MOLECULAR DRAG VACUUM PUMP	10246798	6,866,488
07E312-US-NP	2865-T6954	COMPACT MOLECULAR DRAG VACUUM PUMP	09419959	6,450,772
07E315-US-NP	2865-T7840	PISTON PUMP WITH ZERO TO NEGATIVE CLEARANCE VALVE	09420294	6,190,143

Raytheon Ref.	TNW Ref.	Title	Application Number	Patent Number
07E311-US-NP	2865-T3226	SYSTEM FOR REMOTE MONITORING OF PERSONNEL	08760855	6,198,394
07E337-US-NP	2865-T9178.NP	NON-INVASIVE METHOD AND DEVICE FOR MEASURING CARDIAC OUTPUT	12/348842	
07E324-DE-EPT	2865.20070502.PROV.PCT.EP	DIGITAL WOUND DETECTION SYSTEM	08755122.2	602008002758
07E324-ES-EPT	2865.20070502.PROV.PCT.EP.ES	DIGITAL WOUND DETECTION SYSTEM	08755122.2	2355657
07E324-FR-EPT	2865-20070502.PV.PT.EP.FR	DIGITAL WOUND DETECTION SYSTEM	08755122.2	2156197
07E324-GB-EPT	2865.20070502.PROV.PCT.EP	DIGITAL WOUND DETECTION SYSTEM	08755122.2	2156197
07E324-IT-EPT	2865.20070502.PROV.PCT.IT	DIGITAL WOUND DETECTION SYSTEM	08755122.2	2156197
07E324-JP-PCT	2865-20070502.PROV.PCT.JP	DIGITAL WOUND DETECTION SYSTEM	2010-507622	5295223
07E324-TR-EPT	2865-20070502.PV.PT.EP.TR	DIGITAL WOUND DETECTION SYSTEM	08755122.2	2156197
07E324-US-CIP	2865-20070502	Digital Ballistic Impact Detection System	12/266144	8191421
07E324-US-NP	2865-20070502	DIGITAL WOUND DETECTION SYSTEM	12/116605	8056391
07E337-CN-PCT	2865-T9178.NP.PCT.CN	NON-INVASIVE METHOD AND DEVICE FOR MEASURING CARDIAC OUTPUT	200980107669.8	ZL200980107669.8

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<u>Raytheon Ref.</u>	<u>TNW Ref.</u>	<u>Title</u>	<u>Application Number</u>	<u>Patent Number</u>
07E337-IN-PCT	2865-T9178.NP.PCT.IN	NON-INVASIVE METHOD AND DEVICE FOR MEASURING CARDIAC OUTPUT	1607/MUMNP/2010	
07E337-JP-PCT	2865-T9178.NP.PCT.JP	NON-INVASIVE METHOD AND DEVICE FOR MEASURING CARDIAC OUTPUT	2010-541585	5406211
07E337-MX-PCT	2865-T9178.NP. PCT. MX	NON-INVASIVE METHOD AND DEVICE FOR MEASURING CARDIAC OUTPUT	MX/a/2010/007414	
11-2217-US-NP	2865-11.2217.US.NP	Non-Powered Impact Recorder	13/454917	
08E205-US-NP	2865-23054	Detection of Cranial Hematomas Using RF Method	Invention Disclosure only	
10PF-135-US-NP	2865-T3016	Self Contained, Micropower Apparatus for ECG Acquisition and Digital Waveform Analysis	Invention Disclosure only	
10PF-146-US-NP	2865-T5505	Cardiovascular Monitoring System	Invention Disclosure only	
11-2217-WO-PCT	2865-11.2217.WO.PCT	Non-Powered Impact Recorder	PCT/US13/38041	
10PF-148-US-NP	2865-T6410	Non-Invasive Ultra High Frequency Physiological Sensor	Invention Disclosure only	
12PF-229-US-NP	00729-T5757	Wireless Health Monitoring System	09/179668	6160478

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