502928508 08/08/2014

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2975109

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
SEQUENCE:	2	

## **CONVEYING PARTY DATA**

Name	Execution Date
EVOLUTION ROBOTICS, INC.	05/22/2013

### **RECEIVING PARTY DATA**

Name: IROBOT CORPORATION	
Street Address: 8 CROSBY DRIVE	
City: BEDFORD	
State/Country: MASSACHUSETTS	
Postal Code:	01730

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14251390

#### **CORRESPONDENCE DATA**

**Fax Number:** (949)852-0004

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Phone: 949.852.0000

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Address Line 4: ANAHEIM, CALIFORNIA 92806

ATTORNEY DOCKET NUMBER:	I24-03541.CON
NAME OF SUBMITTER:	TRUDI THOMPSON
SIGNATURE:	/tt/
DATE SIGNED:	08/08/2014

#### **Total Attachments: 9**

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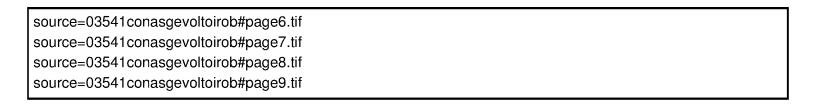
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RECORDATION FORM COVER SHEET  PATENTS ONLY				
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.				
Name of conveying party(les)     Evolution Robotics, Inc.	Name and address of receiving party(ies)     Name: iRobot Corporation     Internal Address:			
Additional name(s) of conveying party(ies) attached? Yes X No  3. Nature of conveyance/Execution Date(s):  Execution Date(s) 5/22/13  X Assignment Merger  Security Agreement Change of Name  Joint Research Agreement  Government Interest Assignment  Executive Order 9424, Confirmatory License  Other  4. Application or patent number(s): This  A. Patent Application No.(s)  14/251390				
Additional numbers at	ached? Yes x No			
5. Name and address to whom correspondence concerning document should be mailed: Name: KPPB LLP	6. Total number of applications and patents involved: 1			
Internal Address: Suite 1050	7. Total fee (37 CFR 1.21(h) & 3.41) \$			
Street Address: 2400 E. Katella	Authorized to be charged to deposit account Enclosed None required (government interest not affecting title)			
City: Anaheim	8. Payment Information			
State: <u>CA</u> Zip: <u>92806</u>				
Phone Number: 949.852.0000  Docket Number: 124-03541.CON  Email Address: pair@kppb.com	Deposit Account Number <u>50-4407</u> Authorized User Name			
9. Signature: /David H. Kaveh/	08-08-2014			
Signature  David H. Kaveh  Name of Person Signing  Documents to be recorded (including cover shee  Mall Stop Assignment Recordation Services, Director o	Date  Total number of pages including cover sheet, attachments, and documents.  g  ti) should be faxed to (571) 273-0140, or malled to: If the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450			

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#### ASSIGNMENT

WHEREAS, Evolution Robotics, Inc., a Delaware corporation having offices at 1055 E. Colorado Blvd., #340, Pasadena, CA 91106 (hereinafter "ASSIGNOR"), represents and warrants that it is the sole owner of the entire right, title, and interest to certain new and useful improvements for which ASSIGNOR has United States and foreign issued Letters Patents and applications for Letters Patents in the United States and other countries, as listed in Appendix A (hereinafter "the Patents and Patent Applications");

WHEREAS, iRobot Corporation, a Delaware corporation having offices at 8 Crosby Drive Bedford, MA 01730 (hereinafter "ASSIGNEE") desires to purchase the entire right, title, and interest in and to the inventions disclosed in the Patents and Patent Applications;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) to ASSIGNOR, and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby further acknowledges that it has sold, assigned, and transferred, and by these presents does hereby sell, assign, and transfer, unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest throughout the world in, to, and under the said improvements, and the said Patents and Patent Applications and all Patents that may be granted thereon, and all provisional applications relating thereto, and all divisions, continuations, reissues, reexaminations, renewals, and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent that may hereafter be filed for said improvements or for the said Patents and Patent Applications in any country or countries foreign to the United States; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patents for said improvements and all Letters Patents resulting from the Patents and Patent Applications to ASSIGNEE, its successors, legal representatives, and assigns, in accordance with the terms of this Agreement.

ASSIGNOR does hereby sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the Letters Patents before or after issuance;

ASSIGNOR hereby covenants and agrees that it will communicate to ASSIGNEE, its successors, legal representatives, and assigns any facts known to ASSIGNOR respecting the Patents and Patent Applications immediately upon becoming aware of those facts, and that it will testify in any legal proceeding involving any of the Patents and Patent Applications, will sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and will generally do everything possible to aid ASSIGNEE, its successors, legal representatives, and assigns to obtain and enforce the Patents and Patent Applications in all countries.

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IN WITNESS WHEREOF, Assignor has caused this Assignment to be signed in Assignor's name, with this Assignment effective as to Assignor as of the date of execution thereof.

FOR ASSIGNOR: **EVOLUTION ROBOTICS, INC.** 

Qien Wejostein Title: //EVP and Chief Legal Officer

Ву:

Name: /

Date:

FOR ASSIGNEE: **IROBOT CORPORATION** 

Ву:

Name:

Glefr/Weinstein

Title:

EVP and Chief Legal Officer

Date:

5-22-13

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# EXHIBIT A

# <u>Patents</u>

# ISSUED PATENTS

Title	Country	Patent No.	Issue Date
HARDWARE ABSTRACTION LAYER FOR A ROBOT	US	6889118	03-May-2005
HARDWARE ABSTRACTION LAYER (HAL) FOR A ROBOT	US	7076336	11-Jul-2006
HARDWARE ABSTRACTION LAYER (HAL) FOR A ROBOT	US	7302312	27-Nov-2007
HARDWARE ABSTRACTION LAYER (HAL) FOR A ROBOT	US	7925381	12-Apr-2011
SENSOR AND ACTUATOR ABSTRACTION AND	KR	10-0980793	01-Sep-2010
AGGREGATION IN A HARDWARE ABSTRACTION LAYER FOR A ROBOT			•
PRESSURE SENSOR SYSTEMS AND METHODS FOR USE IN	US	6606540	12-Aug-2003
ROBOTIC DEVICES	US	7162056	09-Jan-2007
SYSTEMS AND METHODS FOR THE AUTOMATED SENSING	US	/ 10ZU00	09-080-2007
OF MOTION IN A MOBILE ROBOT USING VISUAL DATA	US	7774158	10-Aug-2010
SYSTEMS AND METHODS FOR LANDMARK GENERATION FOR VISUAL SIMULTANEOUS LOCALIZATION AND MAPPING	US	7774158	10-Aug-2010
SYSTEMS AND METHODS FOR FILTERING POTENTIALLY	US	8150650	03-Apr-2012
{	US	0100000	03-Mpr-2012
UNRELIABLE VISUAL DATA FOR VISUAL SIMULTANEOUS			
LOCALIZATION AND MAPPING SYSTEMS AND METHODS FOR ADDING LANDMARKS FOR	US	8086419	27-Dec-2011
VISUAL SIMULTANEOUS LOCALIZATION AND MAPPING	00	0000419	27-000-2011
SYSTEMS AND METHODS FOR DETERMINING WHETHER TO	Us	8095336	10-Jan-2012
ADD A LANDMARK FOR VISUAL SIMULTANEOUS		0000000	10 00:1 E01E
LOCALIZATION AND MAPPING			:
SYSTEMS AND METHODS FOR FILTERING POTENTIALLY	US	7272467	18-Sep-2007
UNRELIABLE VISUAL DATA FOR VISUAL SIMULTANEOUS			(0.00)
LOCALIZATION AND MAPPING			
SYSTEMS AND METHODS FOR INCREMENTALLY UPDATING	US	7015831	21-Mar-2006
A POSE OF A MOBILE DEVICE CALCULATED BY VISUAL			
SIMULTANEOUS LOCALIZATION AND MAPPING			:
TECHNIQUES	Ì		
SYSTEMS AND METHODS FOR CORRECTION OF DRIFT VIA	US	7177737	13-Feb-2007
GLOBAL LOCALIZATION WITH A VISUAL LANDMARK			
SYSTEMS AND METHODS FOR USING MULTIPLE	US	7135992	14-Nov-2006
HYPOTHESES IN A VISUAL SIMULTANEOUS LOCALIZATION			
AND MAPPING SYSTEM			
SYSTEMS AND METHODS FOR USING MULTIPLE	US	7679532	16-Mar-2010
HYPOTHESES IN A VISUAL SIMULTANEOUS LOCALIZATION			:
AND MAPPING SYSTEM		***************************************	
SYSTEMS AND METHODS FOR CONTROLLING A DENSITY	US	7145478	05-Dec-2006
OF VISUAL LANDMARKS IN A VISUAL SIMULTANEOUS			
LOCALIZATION AND MAPPING			
SYSTEMS AND METHODS FOR CONTROLLING A DENSITY	US	7573403	11-Aug-2009
OF VISUAL LANDMARKS IN A VISUAL SIMULTANEOUS			
LOCALIZATION AND MAPPING	<u> </u>		

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Title	Country	Patent No.	Issue Date
SYSTEMS AND METHODS FOR COMPUTING A RELATIVE POSE FOR GLOBAL LOCALIZATION IN A VISUAL SIMULTANEOUS LOCALIZATION AND MAPPING SYSTEM	US	7162338	09-Jan-2007
COMPUTER AND VISION-BASED AUGMENTED INTERACTION IN THE USE OF PRINTED MEDIA	US	7283983	16-Oct-2007
METHODS AND APPARATUS FOR POSITION ESTIMATION USING REFLECTED LIGHT SOURCES	US	7720554	18-May-2010
METHODS AND APPARATUS FOR POSITION ESTIMATION USING REFLECTED LIGHT SOURCES	US	7996097	09-Aug-2011
METHODS AND APPARATUS FOR POSITION ESTIMATION USING REFLECTED LIGHT SOURCES	US	8295955	23-Oct-2012
APPARATUS FOR HOLDING A CLEANING SHEET IN A CLEANING IMPLEMENT	US	8316499	27-Nov-2012
CIRCUIT FOR ESTIMATING POSITION AND ORIENTATION OF A MOBILE OBJ	US	7148458	12-Dec-2006
SYSTEM AND METHOD OF INTEGRATING OPTICS INTO AN IC PACKAGE	US	7535071	19-May-2009
ROBUST SENSOR FUSION FOR MAPPING AND LOCALIZATION IN A SIMULTANEOUS LOCALIZATION AND MAPPING (SLAM) SYSTEM	US	7689321	30-Mar-2010
VISION-ENABLED HOUSEHOLD APPLIANCES	US	7903838	08-Mar-2011
VISION-ENABLED HOUSEHOLD APPLIANCES	US	8229161	24-Jul-2012
SYSTEMS AND METHODS FOR USING MULTIPLE HYPOTHESES IN A VISUAL SIMULTANEOUS LOCALIZATION AND MAPPING SYSTEM	US	8274406	25-Sep-2012

# PENDING APPLICATIONS

Title	Country	Pub. No.	App. No.	Filling/ Pub. Date
HARDWARE ABSTRACTION LAYER (HAL) FOR A ROBOT	US	2012/0041592 A1	13/084350	11-Apr-2011 16-Feb-2012
METHODS AND APPARATUS FOR POSITION ESTIMATION USING REFLECTED LIGHT SOURCES	US		13/651080	12-Oct-2012
METHOD AND APPARATUS FOR POSITION ESTIMATION USING REFLECTED LIGHT SOURCES	GERMANY		112005000738.3	25-Mar-2005
METHOD AND APPARATUS FOR POSITION ESTIMATION USING REFLECTED LIGHT SOURCES	JAPAN		2007-506413	25-Mar-2005
METHODS AND SYSTEMS FOR COMPLETE COVERAGE OF A SURFACE BY AN AUTONOMOUS ROBOT	US	2011/0167574 A1	12/940871	05-Nov-2010 14-Jul-2011

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Title	Country	Pub. No.	App. No.	Filing/ Pub. Date
METHODS AND SYSTEMS FOR COMPLETE COVERAGE OF A SURFACE BY AN AUTONOMOUS ROBOT	8RAZIL		Unassigned [PCT/US2010/055740]	05-Nov-2010
METHODS AND SYSTEMS FOR COMPLETE COVERAGE OF A SURFACE BY AN AUTONOMOUS ROBOT	CHINA	CN 102713779 A	201080058160.1	05-Nov-2010 03-Oct-2012
METHODS AND SYSTEMS FOR COMPLETE COVERAGE OF A SURFACE BY AN AUTONOMOUS ROBOT	EPC	2496995	10829201.2	05-Nov-2010 12-Sep-2012
METHODS AND SYSTEMS FOR COMPLETE COVERAGE OF A SURFACE BY AN AUTONOMOUS ROBOT	JAPAN		2012-538055	05-Nov-2010
METHODS AND SYSTEMS FOR COMPLETE COVERAGE OF A SURFACE BY AN AUTONOMOUS ROBOT	RUSSIAN FEDERATION		2012122469	05-Nov-2010
LOCALIZATION BY LEARNING OF WAVE-SIGNAL DISTRIBUTIONS	US	2011/0125323 A1	12/940937	05-Nov-2010 26-May-2011
APPLICATION OF LOCALIZATION, POSITIONING & NAVIGATION SYSTEMS FOR ROBOTIC ENABLED MOBILE PRODUCTS	US	2009/0281661 A1	12/429963	24-Apr-2009 12-Nov-2009
APPLICATION OF LOCALIZATION, POSITIONING & NAVIGATION SYSTEMS FOR ROBOTIC ENABLED MOBILE PRODUCTS	BRAZIL		PI0910450-0	24-Apr-2009
ROBOTIC FLOOR CLEANING APPARATUS WITH SHELL CONNECTED TO THE CLEANING ASSEMBLY AND SUSPENDED OVER THE DRIVE SYSTEM	US	2011/0153081 A1	12/976786	22-Dec-2010 23-Jun-2011
ARTICULATED JOINT AND THREE AREAS OF CONTACT	US	2011/0160903 A1	12/976698	22-Dec-2010 30-Jun-2011
APPLICATION OF LOCALIZATION, POSITIONING & NAVIGATION SYSTEMS FOR ROBOTIC ENABLED MOBILE PRODUCTS	CHINA	CN 102083352 A	200980124250.3	24-Apr-2009 01-Jun-2011
APPLICATION OF LOCALIZATION, POSITIONING & NAVIGATION SYSTEMS FOR ROBOTIC ENABLED MOBILE PRODUCTS	EPC	2303085	09734436.0	24-Apr-2009 06-Apr-2011

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Title	Country	Pub. No.	App. No.	Filing/ Pub. Date
APPLICATION OF LOCALIZATION, POSITIONING & NAVIGATION SYSTEMS FOR ROBOTIC ENABLED MOBILE PRODUCTS	INDIA		8256/DELNP/2010	24-Apr-2009
APPLICATION OF LOCALIZATION, POSITIONING & NAVIGATION SYSTEMS FOR ROBOTIC ENABLED MOBILE PRODUCTS	KOREA		10-2010-7026278	24-Apr-2009
MOBILE ROBOT FOR CLEANING	US	2011/0202175 A1	12/930260	30-Dec-2010 18-Aug-2011
APPARATUS FOR HOLDING A CLEANING SHEET IN A CLEANING IMPLEMENT	US		13/685476	26-Nov-2012
SYSTEM FOR LOCALIZATION AND OBSTACLE DETECTION USING A COMMON RECEIVER	US	2011/0166707 A1	12/985194	05-Jan-2011 07-Jul-2011
SYSTEMS AND METHODS FOR VSLAM OPTIMIZATION	US	2012/0121161 A1	13/244221	23-Sep-2011 17-May-2012
SYSTEMS AND METHODS FOR VSLAM OPTIMIZATION:	AUSTRALIA		Unassigned [PCT/US2011/053122]	28-Mar-2013
SYSTEMS AND METHODS FOR VSLAM OPTIMIZATION	CANADA	***************************************	Unassigned [PCT/US2011/053122]	22-Mar-2013
SYSTEMS AND METHODS FOR VSLAM OPTIMIZATION	EPC		11827663.3	23-Apr-2013
SYSTEMS AND METHODS FOR VSLAM OPTIMIZATION	JAPAN		Unassigned [PCT/US2011/053122]	25-Mar-2013
SYSTEM AND METHOD FOR AUTONOMOUS MOPPING OF A FLOOR SURFACE	US		12/928965 23-Dec-2010	
DEBRIS GUARD FOR A WHEEL ASSEMBLY	US	2012/0267943 A1	13/455353	25-Apr-2012 25-Oct-2012
MOPPING ASSEMBLY FOR A MOBILE ROBOT	US		13/495912	13-Jun-2012
METHODS AND SYSTEMS FOR OBSTACLE DETECTION USING STRUCTURED	US		11/584355	20-Oct-2006
SYSTEM AND METHOD FOR MANAGING SEARCH RESULTS INCLUDING GRAPHICS	US		13/615381	13-Sep-2012
SCALING VECTOR FIELD SLAM TO LARGE ENVIRONMENTS	PCT		PCT/US2012/064553	09-Nov-2012
WALL FOLLOWING SYSTEM CARPET DRIFT ESTIMATION USING DIFFERENTIAL SENSORS AND VISUAL	US US		61/657357 61/657399	08-Jun-2012 08-Jun-2012
MEASUREMENTS ROBOTIC GAME SYSTEMS AND METHODS	US	2009/0081923 A1	12/234565	19-Sep-2008 26-Mar-2009
TRANSFERABLE INTELLIGENT	US	2009/0082879 A1	12/234543	19-Sep-2008

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	Title	Country	Pub. No.	App. No.	Filing/
		·····			Pub. Date
	CONTROL DEVICE				26-Mar-2009
	SYSTEMS AND METHODS FOR	US	2013/0006420 A1	13/615174	13-Sep-2012
-	USING MULTIPLE HYPOTHESES				03-Jan-2013
-	IN A VISUAL SIMULTANEOUS				
	LOCALIZATION AND MAPPING				
	SYSTEM				

# INACTIVE/ABANDONED/EXPIRED APPLICATIONS

Title	Country	App. No.	Filing Date
ROBOT CONTROL ARCHITECTURE	US	60/334142	28-Nov-2001
ROBOT CONTROL ARCHITECTURE	ÜŜ	60/355624	08-Feb-2002
ROBOT CONTROL ARCHITECTURE	ÜŠ	60/374309	19-Apr-2002
SENSOR AND ACTUATOR ABSTRACTION AND	JAPAN	2003-547121	27-Nov-2002
AGGREGATION IN HARDWARE ABSTRACTION	07117114	2500 5	
LAYER FOR A ROBOT			
SENSOR AND ACTUATOR ABSTRACTION AND	PCT	PCT/US2002/038280	27-Nov-2002
AGGREGATION IN A HARDWARE ABSTRACTION			
LAYER FOR A ROBOT			
METHODS AND SYSTEMS FOR CHARGING A	ÜS	60/355728	08-Feb-2002
ROBOTIC APPARATUS	•		
SYSTEMS AND METHODS FOR CONFIGURING	US	60/382504	21-May-2002
THE BEHAVIOR OF A ROBOT VIA A USER			Í
INTERFACE			
SYSTEMS AND METHODS FOR CONFIGURING	US	60/405854	22-Aug-2002
THE BEHAVIOR OF A ROBOT VIA A USER			ű
INTERFACE			
VISUAL STOP AND COLLISION DETECTION	US	60/404348	16-Aug-2002
SYSTEMS AND METHODS FOR THE AUTOMATED	PCT	PCT/US2003/025666	15-Aug-2003
SENSING OF MOTION IN A MOBILE ROBOT USING			-
VISUAL DATA			
METHODS AND SYSTEMS FOR IMAGE	US	60/439039	09-Jan-2003
RECOGNITION OF HAND-DRAWN			
VISUAL LOCALIZATION AND MAPPING FOR	US	60/434269	17-Dec-2002
ROBOTICS			
VISUAL LOCALIZATION AND MAPPING	US	60/439049	09-Jan-2003
SYSTEMS AND METHODS FOR VISUAL	US	PCT/US2003/039996	17-Dec-2003
SIMULTANEOUS LOCALIZATION AND MAPPING	×		
COMPUTER AND VISION-BASED AUGMENTED	US	60/439050	09-Jan-2003
INTERACTION IN THE USE OF PRINTED MEDIA			
COMPUTER AND VISION-BASED AUGMENTED	PCT	PCT/US2004/000414	09-Jan-2004
INTERACTION IN THE USE OF PRINTED MEDIA	***************************************		
VISION- BASED PROGRAMMING OF MOBILE	US	10/754917	09-Jan-2004
ROBOTS	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
VISION- AND ENVIRONMENT-BASED	US	60/439047	09-Jan-2003
PROGRAMMING OF ROBOTS AND COMPUTER			
SYSTEMS			
VISION-AND ENVIRONMENT-BASED	PCT	PCT/US2004/000413	09-Jan-2004

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Title	Country	App. No.	Filing Date
PROGRAMMING OF ROBOTS AND/OR COMPUTER	***************************************		
SYSTEMS			
MECHANICAL ARRANGEMENT AND COMPONENTS FOR REDUCING ERROR IN	US	10/818756	06-Apr-2004
DEDUCED RECKONING METHOD AND SYSTEM FOR FLOOR COVERAGE FOR AN AUTONOMOUS MOBILE ROBOT	US	60/575129	28-May-2004
SYSTEMS AND METHODS FOR AN OPTICAL DISTANCE SENSOR	US	10/857429	28-May-2004
VISION-ENABLED HOUSEHOLD APPLIANCES	ÜS	60/540905	30-Jan-2004
METHODS FOR ROBUST SENSOR FUSION	ÜS	60/544486	13-Feb-2004
SENSING DEVICE AND METHOD FOR MEASURING POSITION AND ORIENTATION RELATIVE TO MULTIPLE LIGHT SOURCES	PCT	PCT/US2005/010200	25-Mar-2005
METHODS AND APPARATUS FOR POSITION ESTIMATION USING REFLECTED LIGHT SOURCES	US	60/557252	29-Mar-2004
METHOD AND APPARATUS FOR POSITION ESTIMATION USING REFLECTED LIGHT SOURCES	PCT	PCT/US2005/010244	25-Mar-2005
SYSTEMS AND METHODS FOR RETAIL CHECK- OUT MERCHANDISE DETECTION USING UNDER- CART SCANNING	US	60/548565	27-Feb-2004
MOBILE COMPUTING DEVICE WITH IMAGING CAPABILITY	PCT	PCT/US2007/011120	08-May-2007
METHOD AND SYSTEM FOR COMPLETE COVERAGE OF A SURFACE BY AN AUTONOMOUS ROBOT	US	61/280678	06-Nov-2009
METHODS AND SYSTEMS FOR COMPLETE COVERAGE OF A SURFACE BY AN AUTONOMOUS ROBOT	PCT	PCT/US2010/055740	05-Nov-2010
LOCALIZATION BY LEARNING OF WAVE-SIGNAL DISTRIBUTIONS	US	61/280677	06-Nov-2009
APPLICATION OF LOCALIZATION, POSITIONING & NAVIGATION SYSTEMS FOR ROBOTIC ENABLED MOBILE PRODUCTS	PCT	PCT/US2009/041728	24-Apr-2009
VSLAM	US	61/404001	24-Sep-2010
SYSTEMS AND METHODS FOR VSLAM OPTIMIZATION	PCT	PCT/US2011/053122	23-Sep-2011
SCALING VECTOR FIELD SLAM TO LARGE ENVIRONMENTS	US	61/558831	11-Nov-2011

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PATENT REEL: 033499 FRAME: 0317

**RECORDED: 08/08/2014**