

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5235542

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
FUTURE VISION HOLDINGS, INC.	01/04/2008
RECEIVING PARTY DATA	
Name:	EVOLUTION ROBOTICS, INC.
Street Address:	1055 E. COLORADO BLVD.
Internal Address:	SUITE 340
City:	PASADENA
State/Country:	CALIFORNIA
Postal Code:	91106
PROPERTY NUMBERS Total: 2	
Property Type	Number
Application Number:	14635800
Application Number:	15462155
CORRESPONDENCE DATA	
Fax Number:	(919)854-1401
<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>	
Phone:	9198541400
Email:	mderosa@myersbigel.com
Correspondent Name:	MYERS BIGEL, P.A.
Address Line 1:	4140 PARKLAKE AVENUE
Address Line 2:	SUITE 600
Address Line 4:	RALEIGH, NORTH CAROLINA 27612
ATTORNEY DOCKET NUMBER:	5579-134CT/5579-134CT2
NAME OF SUBMITTER:	MEREDITH DEROSA
SIGNATURE:	/mld/
DATE SIGNED:	11/13/2018
Total Attachments: 4	
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EXHIBIT A
PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT (the "**Assignment**"), dated December 31, 2007 and effective on January 4, 2008 (the "**Effective Date**") is entered into by and between Future Vision Holdings, Inc., a Delaware corporation with an address of 130 West Union Street, Pasadena, California 91103 ("**Assignor**") and Evolution Robotics, Inc., a Delaware corporation with an address of 130 West Union Street, Pasadena, CA 91103 ("**Assignee**").

WHEREAS, Assignee and Assignor are parties to a Contribution Agreement, dated as of December 31, 2007 (the "**Agreement**"), pursuant to which Assignor has agreed to transfer and Assignee has agreed to acquire Assignor's interest in and to the inventions identified and set forth in this Schedule A-1 attached hereto and incorporated herewith (collectively, the "**Inventions**"); and

WHEREAS, Assignee wishes to acquire all of Assignor's right, title and interest in and to the Inventions.

NOW THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged:

- a) Assignor hereby sells and assigns to Assignee all of Assignor's right, title and interest in and to the Inventions, to the full extent of its ownership therein, including: (i) all United States patents and patent rights granted thereon (including priority rights, extensions, renewals, substitutes, and reissues thereof); (ii) all international patents and patent rights granted thereon (including priority rights, extensions, renewals, substitutes, and reissues thereof) under all available international agreements, law, treaties and conventions for the protection of intellectual property; (iii) all applications for patents (including related rights such as utility-model registrations, inventor's certificates, and the like) filed for the Inventions in the United States and/or any foreign countries; and all rights to causes of action and remedies related thereto (including the right to sue for past, present or future infringement); and any and all other rights and interests arising out of, in connection with or in relation to the Patents.
- b) Assignor hereby authorizes and requests that the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty it is to issue patents on Inventions as aforesaid, issue all patents for the Inventions to Assignee in accordance with the terms of this Assignment.
- c) Upon Assignee's request, Assignor will promptly take such actions, including, without limitation, the prompt execution and delivery of documents in recordable form, as may be reasonably necessary to vest, secure, perfect, protect or enforce the rights and interests of Assignee in and to the Inventions, including, (i) deliver to Assignee all documents and records related to the Inventions, (ii) communicate to Assignee any facts known to Assignor related to the Inventions, and (iii) at Assignee's expense, testify in any legal proceeding, sign all lawful papers, execute all substitute and reissue applications, and make all rightful oaths to aid Assignee to obtain and enforce proper patent protection for said Inventions in all countries.
- d) ASSIGNOR EXPRESSLY DISCLAIMS TO THE FULLEST EXTENT PERMITTED BY LAW ALL EXPRESS, IMPLIED, AND STATUTORY WARRANTIES RELATING TO THE INVENTIONS, INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT OF PROPRIETARY RIGHTS.
- e) This Assignment shall be binding upon and inure to the benefit of Assignor and Assignee hereto and their respective successors, transferees, and assigns, whether by merger or consolidation or otherwise.


IN WITNESS WHEREOF, the parties hereto have duly executed this Assignment as of the Effective Date.

"ASSIGNOR"
FUTURE VISION HOLDINGS, INC.
a Delaware Corporation

By: 

Marcia Goodstein

"ASSIGNEE"
EVOLUTION ROBOTICS, INC.
a Delaware corporation

By: 

Paolo Pignatari

Schedule A-1

U.S. ISSUED PATENTS

6,606,540	Pressure Sensor Systems and Methods for Use in Robotic Devices
6,889,118	Sensor and Actuator Abstraction and Aggregation in a Hardware Abstraction Layer for a Robot (HAL)
7,015,831	Systems and Methods for Incrementally Updating a Pose of a Mobile Device Calculated by Visual Simultaneous Localization and Mapping Techniques
7,076,336	Hardware Abstraction Layer for a Robot (HAL)
7,135,992	Systems and Methods for Using Multiple Hypotheses in a Visual Simultaneous Localization and Mapping System
7,145,478	Systems and Methods for Controlling a Density of Visual Landmarks in a Visual Simultaneous Localization and Mapping System
7,148,458	Circuit for Estimating Position and Orientation of a Mobile Object
7,162,056	Systems and Methods for the Automated Sensing of Motion in a Mobile Robot Using Visual Data
7,162,338	Systems and Methods for Computing a Relative Pose for Global Localization in a Visual Simultaneous Localization and Mapping System
7,177,737	Systems and Methods for Correction of Drift Via Global Localization With a Visual Landmark
7,272,467	Systems and Methods for Filtering Potentially Unreliable Visual Data for Visual Simultaneous Localization and Mapping
7,283,983	Computer and Vision-based Augmented Interaction in the Use of Printed Media
7,302,312	Hardware Abstraction Layer for a Robot (HAL)

U.S. PATENT APPLICATIONS

11/945,893	Hardware Abstraction Layer for a Robot (HAL)
10/739,935	Systems and Methods for Landmark Generation for Visual Simultaneous Localization and Mapping
11/559,359	Systems and Methods for Using Multiple Hypotheses in a Visual Simultaneous Localization and Mapping System
11/562,877	Systems and Methods for Controlling a Density of Visual Landmarks in a Visual Simultaneous Localization and Mapping System
10/754,917	Vision- and Environment-Based Programming of Robots and/or Computer Systems
10/818,756	Mechanical Arrangement and Components for Reducing Error in Deduced Reckoning
11/038,714	Vision-Enabled Household Appliance
11/055,210	Robust Sensor Fusion for Mapping and Localization in a Simultaneous Localization and Mapping (SLAM) System
11/090,621	Methods and Apparatus for Position Estimation Using Reflected Light Sources
11/090,432	System and Method for Integrating Optics into an IC Package
11/370,589	System and Method for Managing Search Results Including Graphics
11/584,355	Methods and Systems for Obstacle Detection Using Structured Light

FOREIGN PATENT APPLICATIONS

2003-547121	A Hardware Abstraction Layer for a Robot (HAL)
10-2004-7008104	A Hardware Abstraction Layer for a Robot (HAL)
DE 11 2005 000 738.3	Methods and Apparatus for Position Estimation Using Reflected Light Sources
2007-506413	Methods and Apparatus for Position Estimation Using Reflected Light Sources
PCT/US2007/011120	Mobile Computing Device With Imaging Capability

PENDING ER PROVISIONAL PATENT APPLICATION

60/994,650	Robotic Game System
60/994,651	Transferable Intelligent Control Device

CONFIDENTIAL

PATENT
REEL: 028800 FRAME: 0089

IN TESTIMONY WHEREOF, I hereunto set my hand this 21st day of December, 2007

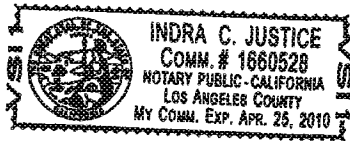
Marcia Goodstein

Marcia Goodstein

STATE OF CALIFORNIA)
COUNTY OF LOS ANGELES)

On December 21, 2007, before me Indra C. Justice, Notary Public, personally appeared Marcia Goodstein, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



Indra C. Justice

Signature of Notary