

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
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KARL NICHOLAS MURPHY	09/02/2021
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PROPERTY NUMBERS Total: 1	
Property Type	Number
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ATTORNEY DOCKET NUMBER:	RR03-073-03-01
NAME OF SUBMITTER:	LIMOR N. BREDMEHL
SIGNATURE:	/Limor N. Bredmehl/
DATE SIGNED:	04/10/2023
Total Attachments: 6	
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PATENT ASSIGNMENT

NOW THEREFORE, in consideration of promises, covenants, agreements, and other good and valuable consideration set forth herein or otherwise agreed to between the parties, receipt whereof being hereby acknowledged, each of Alberto Daniel Lacaze of Potomac, Maryland and Karl Nicholas Murphy of Cocoa Beach, Florida, (each an "Assignor") does hereby assign, transfer, and convey unto Robotic Research, LLC, having offices at 22601 Gateway Center Drive, Clarksburg, MD 20871, U.S.A. ("Assignee"), or its designees, all right, title, and interest that exist today and may exist in the future in and to any and all of the following (collectively "the Patent Rights"):

(a) the provisional patent applications, patent applications, and patents listed in attached Schedule A ("the Patents");

(b) all patents and patent applications to which any of the Patents directly or indirectly claims priority;

(c) all reissues, reexaminations, extensions, continuations, continuations in part, continuing prosecution applications, requests for continuing examinations, divisions, registrations of any item in any of the foregoing categories (a) and (b);

(d) all foreign patents, patent applications, and counterparts relating to any item in any of the foregoing categories (a) through (c), including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection;

(e) all items in any of the foregoing in categories (a) through (d), whether or not expressly listed in Schedule A, and whether or not claims in any of the foregoing have been rejected, withdrawn, cancelled, or the like;

(f) all rights to apply in any or all countries of the world for patents, certificates of invention, utility models, industrial design protections, design patent protections, or other governmental grants or issuances of any type related to any item in any of the foregoing categories (a) through (e), including, without limitation, under the Paris Convention for the Protection of Industrial Property, the International Patent Cooperation Treaty, or any other convention, treaty, agreement, or understanding;

(g) all causes of action (whether known or unknown or whether currently pending, filed, or otherwise) and other enforcement rights under, or on account of, any of the Patents and/or any item in any of the foregoing categories (a) through (f), including, without limitation, all causes of action and other enforcement rights for:

(i) damages, past, present, or future;

(ii) injunctive relief;

(iii) any other remedies of any kind for past, current, and future infringement; and

(iv) all rights to collect royalties and other payments under or on account of any of the Patents and/or any item in any of the foregoing categories (a) through (f);

AND for the same consideration, each Assignor hereby represents and warrants to Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles, and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignor is the sole and lawful owner of the entire right, title, and interest in and to the said inventions and application for the above-mentioned Patents;

AND for the same consideration, each Assignor hereby covenants and agrees to and with Assignee, its successors, legal representatives, and assigns, that Assignor will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of any Patents and Patent applications for said inventions, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application, or any proceeding in connection with any Patents or Patent applications for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation, or continuation-in-part, or any reissue, reexamination, or extension of any Patent, to be obtained thereon, is lawful and desirable;

AND each Assignor hereby authorizes the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models, or other governmental grants or issuances that may be granted upon any of the Patent Rights in the name of Assignee, as the assignee to the entire interest therein;

AND the terms and conditions of this Assignment of Patent Rights will inure to the benefit of Assignee, its successors, assigns, and other legal representatives and will be binding upon each Assignor, its successors, assigns, and other legal representatives;

AND this Assignment may be executed in multiple counterparts, each of which shall constitute an original and all of which, when taken together, shall constitute the single Agreement;

AND if any part of this Assignment shall be held unenforceable for any reason, the remainder of the Assignment shall continue in full force and effect. If any provision of this Assignment is deemed unenforceable by any court of competent jurisdiction, and if limiting such provision would make the provision valid, then such provision shall be deemed to be construed as so limited.

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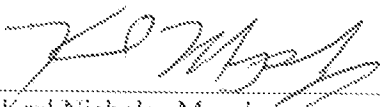
Agreed to and Accepted:

By Assignors:



Alberto Daniel Lacaze


9/2/2021
Date



Karl Nicholas Murphy

9/2/2021
Date

On behalf of Assignee, Robotic Research, LLC:



Alberto Daniel Lacaze, President

9/2/2021
Date

SCHEDULE A

Application No. (Patent No.)	Country	Filing Date	Title of Patent	First Named Inventor
12/341990	US	12/22/2008	Method and system for robotic algae harvest	Alberto Daniel Lacaze
13/535594	US	6/28/2012	Method And System For Robotic Algae Harvest	Alberto Daniel Lacaze
13/871129	US	4/26/2013	Field Deployable Rapid Prototypable UXVs	Alberto Daniel Lacaze
15/269885	US	9/19/2016	Method for Shipbuilding Using 3D Printers	Alberto Daniel Lacaze
15/903163	US	2/23/2018	Method for Using Cryptography to Protect Deployable Rapid On-Site Manufacturing 3D Printing Systems and Enable a Single Time Printing Protocol	Alberto Daniel Lacaze
16/193338 (10906668)	US	11/16/2018	Field Deployable Rapid Prototypable UXVs	Alberto Daniel Lacaze
16/377581	US	4/8/2019	Coordinated Traffic Feature and Map Generation for Convoy Operations	Alberto Daniel Lacaze
16/445302	US	6/19/2019	Driver Aid and Autonomous Tractor Trailer Parking and Loading Dock Alignment System	Alberto Daniel Lacaze
16/445751	US	6/19/2019	Autonomous Truck Unloading for Mining and Construction Applications	Alberto Daniel Lacaze
16/520456	US	7/24/2019	Autonomous Waste Collection Truck	Alberto Daniel Lacaze
16/535455	US	8/8/2019	Drone Based Inspection System At Railroad Crossings	Alberto Daniel Lacaze
16/536509	US	8/9/2019	Path Follower with Limited Steering Rate Controller	Alberto Daniel Lacaze
16/542807	US	8/16/2019	Compact Transformable Robot	Alberto Daniel Lacaze
16/559889	US	9/4/2019	Autonomous Police or Security Vehicle	Alberto Daniel Lacaze
16/563157	US	9/6/2019	Autonomous Street Sweeper Vehicle	Alberto Daniel Lacaze
16/574443	US	9/27/2019	Meeting Coordinator Minimizing Joint Driving Time	Alberto Daniel Lacaze
16/585355	US	9/27/2019	Meeting Coordinator Minimizing Joint Driving Time	Alberto Daniel Lacaze
16/585392	US	9/27/2019	Meeting Coordinator Minimizing Joint Driving Time	Alberto Daniel Lacaze
16/585576	US	9/27/2019	Autonomous Winter Service Vehicle	Alberto Daniel Lacaze
16/593036	US	10/4/2019	Autonomous Road Surface Marking Vehicle	Alberto Daniel Lacaze
16/597893	US	10/10/2019	Autonomous Ambulance	Alberto Daniel Lacaze
16/601775	US	10/15/2019	Autonomous Trucks with Specialized Behaviors for Mining and Construction Applications	Alberto Daniel Lacaze

16/676544	US	11/7/2019	Autonomous Truck Loading for Mining and Construction Applications	Alberto Daniel Lacaze
16/676666	US	11/7/2019	Autonomous Truck Unloading for Mining and Construction Applications	Alberto Daniel Lacaze
16/678244	US	11/8/2019	Driver Aid and Autonomous Tractor-Trailer Parking and Loading Dock Alignment System	Alberto Daniel Lacaze
16/679376	US	11/11/2019	Learning Mechanism for Autonomous Trucks for Mining and Construction Applications	Alberto Daniel Lacaze
16/679512	US	11/11/2019	Self-Discovery Mechanism, Scripting Language, and Optimization for Mining and Construction Applications	Alberto Daniel Lacaze
16/679824	US	11/11/2019	Autonomous Dust Mitigation in Mining and Construction Applications	Alberto Daniel Lacaze
16/740622	US	1/13/2020	Autonomous Fire Vehicle	Alberto Daniel Lacaze
16/791126	US	2/14/2020	Effect of Multiple Rules of the Road At Different Elevation Profiles on Speed Constraints and Fuel Consumption	Alberto Daniel Lacaze
16/797248	US	2/21/2020	Acoustically Adjustable Lenses	Alberto Daniel Lacaze
61/642035	US	5/3/2012	Field Deployable Rapid Prototypable UXVs	Alberto Daniel Lacaze
61/840081	US	6/27/2013	System and Method for Deployable Rapid On-Site Manufacturing Using 3D Printing in Combination with Vacuum Metallization	Alberto Daniel Lacaze
61/903343	US	11/12/2013	System and Method for 3D Printing Models with Additional Features	Alberto Daniel Lacaze
61/903348	US	11/12/2013	System and Method for Enabling the Partial Printing of a Device	Alberto Daniel Lacaze
61/903357	US	11/12/2013	System and Method for Printing Tunable Antennas	Alberto Daniel Lacaze
61/903363	US	11/12/2013	Method for Using Cryptography to Protect Deployable Rapid On-Site Manufacturing 3D Printing Systems and Enable a Single Time Printing Protocol	Alberto Daniel Lacaze
61/903370	US	11/12/2013	3D Printer Station	Alberto Daniel Lacaze
61/984536	US	4/25/2014	Structural Analysis for Additive Manufacturing	Alberto Daniel Lacaze
62/024944	US	7/15/2014	Omni-directional Stereo System	Alberto Daniel Lacaze
62/129471	US	3/6/2015	Point-and-Click Control of Unmanned, Autonomous Vehicle Using Omni-Directional Visors	Alberto Daniel Lacaze
62/175231	US	6/13/2015	Senising On UAVS For Mapping And Obstacle Avoidance	Alberto Daniel Lacaze
62/209994	US	8/26/2015	System and Method for Protecting Software from Buffer Overruns	Alberto Daniel Lacaze
62/257572	US	11/19/2015	Method for Shipbuilding Using 3D Printers	Alberto Daniel Lacaze

62/326711	US	4/23/2016	Handheld 3D Printer	Alberto Daniel Lacaze
62/367601	US	7/27/2016	Covert Timing Synchronization	Alberto Daniel Lacaze
62/413474	US	10/27/2016	Vehicle Capable of Multiple Varieties of Locomotion	Alberto Daniel Lacaze
62/475567	US	3/23/2017	System and Method for Enabling Fused Deposition Metal 3D Printing	Alberto Daniel Lacaze
62/490425	US	4/26/2017	Energy Harvester While in Tow	Alberto Daniel Lacaze
62/759956	US	11/12/2018	Learning Mechanism For Autonomous Trucks For Mining And Construction Applications	Alberto Daniel Lacaze
62/768473	US	11/16/2018	Driver Air And Autonomous Tractor Trailer Parking And Loading Dock Alignment System	Alberto Daniel Lacaze
63/106714	US	10/28/2020	Rear Trailer Hosteler	Alberto Daniel Lacaze
63/108949	US	11/3/2020	Remote Operator Safety Station	Alberto Daniel Lacaze
63/109081	US	11/3/2020	Power Distribution using Autonomous Electric Vehicles	Alberto Daniel Lacaze
63/218364	US	7/4/2021	Systems And Methods For Passive 3D Mapping	Alberto Daniel Lacaze
63/220244	US	7/9/2021	Systems And Methods For Distributed Geographical Search	Alberto Daniel Lacaze