

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5903377

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DAVID W. PAGLIERONI	11/13/2019
N. REGINALD BEER	11/15/2019
DAVID CHAMBERS	11/15/2019
RECEIVING PARTY DATA	
Name:	LAWRENCE LIVERMORE NATIONAL SECURITY, LLC
Street Address:	7000 EAST AVENUE
City:	LIVERMORE
State/Country:	CALIFORNIA
Postal Code:	94550
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16603977
CORRESPONDENCE DATA	
Fax Number:	(206)359-7198
<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:	(206)359-8000
Email:	patentprocurement@perkinscoie.com
Correspondent Name:	PERKINS COIE LLP
Address Line 1:	P.O. BOX 1247
Address Line 2:	PATENT - SEA
Address Line 4:	SEATTLE, WASHINGTON 98111-1247
ATTORNEY DOCKET NUMBER:	077518-8078.US00
NAME OF SUBMITTER:	TATJANA MIRKOVIC
SIGNATURE:	/Tatjana Mirkovic/
DATE SIGNED:	01/09/2020
Total Attachments: 4	
source=IL-13136 Assign & Dec Combined -David Paglieroni#page1.tif	
source=IL-13136 Assign & Dec Combined -David Paglieroni#page2.tif	
source=IL-13136B Assignment Signed -Dave Chambers#page1.tif	

DECLARATION AND ASSIGNMENT BY INVENTOR
UNDER 37 CFR §1.63

Title of Invention: SWARM PATH PLANNER SYSTEM FOR AUTONOMOUS VEHICLES

I, David W. Paglieroni, hereby declare that this declaration is directed to the attached application identified as Attorney Docket No. 77518.8077.US00, United States application number 16/603,977 filed on 10/09/2019.

2. I believe I am the original inventor or an original joint inventor of a claimed invention in the patent application identified in Section 1 ("Patent Application").

3. I made or authorized to make the Patent Application.

4. I have reviewed and understand the contents of the Patent Application including the claims.

5. I am aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

6. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC §1001 by fine or imprisonment of not more than five (5) years, or both.

7. ASSIGNMENT

For good and valuable consideration the receipt of which is hereby acknowledged, I hereby sell, assign, transfer, and convey to Lawrence Livermore National Security, LLC., a Delaware corporation having its administrative offices located at 2300 First Street, Suite 204, Livermore, CA 94550, and its successors, legal representatives and assigns (collectively, "Assignee"), the entire right, title and interest throughout the world in and to the following (collectively, "Rights"):

- (a) all inventions and improvements claimed and/or disclosed in the Patent Application, in provisional application _____, filed _____, from which the Patent Application claims priority, and in any and all divisional, continuation, continuation-in-part, and substitute applications based on the Patent Application.
- (b) the Patent Application, the provisional application _____, filed _____, from which the Patent Application claims priority, and any and all divisional, continuation, continuation-in-part, and substitute applications based on the Patent Application (collectively, "Related Applications").
- (c) any and all patent(s) which may be granted in the United States, its territories, dependencies and possessions, for the inventions and improvements claimed and/or disclosed in the Related Applications, for the full term or terms for which the same may be granted.
- (d) any and all patent(s) resulting from extension, renewal, reinstatement, reissue or reexamination, or any interference, opposition, or judicial proceeding, directed to any of the

Related Applications or any patent described above, for the full term or terms for which the same may be granted.

- (e) any foreign equivalent or counterpart of any of the Related Applications or of any of the patent(s) described above, including without limitation, certificates of invention, utility models, and design registrations.
- (f) the right to claim priority based on the filing dates of the Related Applications or any of the patent(s) described above, under, but not limited to, the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes.
- (g) the right to seek relief and recover all damages, including, but not limited to, a reasonable royalty, by reason of infringement or any other violation of patent or patent application rights.


In addition, I hereby confirm the sale, assignment, transfer and conveyance to the Assignee of the entire right, title and interest throughout the world in the Rights, including the inventions and improvements, that occurred by operation of an employment agreement between me and the Assignee existing at the time said inventions and improvements were made. Should I have any remaining interest, I hereby sell, assign, transfer and convey any right, title and interest I may have in said inventions and improvements anywhere in the world to the Assignee.

I hereby represent and covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with this assignment.

I further covenant to provide reasonable assistance to the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee all pertinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to me and testifying as to the same in any interference, litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application, said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

I hereby authorize and request 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, and any reissue or extension thereof, that may be granted upon any of the Rights in the name of the Assignee, as the assignee to the entire interest therein.

8. I am competent to execute the above declaration and assignment. I hereby have duly executed the declaration and assignment below with my name.


Signature of Inventor: David W. Paglieroni

12/13/2019
Date:

ASSIGNMENT

LLNL Record of Invention Case No. IL-13136, entitled:

OPTIMAL AUTONOMOUS CONTROL OF UNMANNED VEHICLE SWARMS USING STOCHASTIC UV SWARM TREES

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(s)

1. N. Reginald Beer
2. David Chambers
3. David W. Paglieroni

hereby sells, assigns, transfers, and conveys to ASSIGNEE, Lawrence Livermore National Security, LLC, a Delaware limited liability company, having a place of business at 7000 East Avenue, Livermore, CA 94550 and the successors, assigns and legal representative of the ASSIGNEE all of its right, title and interest throughout the world in and to any and all inventions and discoveries found in the above-listed LLNL Record of Invention Case No. and in:

- U.S. Provisional Application Serial No. _____, filed on _____
- U.S. Patent Application Serial No. 16/603977, filed on 10/09/2019
- International Application Serial No. _____, filed on _____

and any legal equivalent thereof in a foreign country, including the right to claim priority, and in and to all Letters Patent to be obtained for said inventions and discoveries by the above application(s) or any continuation, division, continuation-in-part, extension or substitute thereof, and any reissue, reexamination or extension of said Letters Patent and all rights under all International Conventions for the Protection of Industrial Property;

ASSIGNOR(S) hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR(S) further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation, or proceeding relating thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof. An attorney of record is authorized and requested by the execution of this assignment to insert into this assignment the filing date and serial number of said application when officially known.

AND the ASSIGNOR(S) requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States and any reissue or extension thereof to the ASSIGNEE, Lawrence Livermore National Security, LLC.

executed this

Signature of ASSIGNOR(s)

Date

N. Reginald Beer

executed this

Signature of ASSIGNOR(s)

11/15/19
Date


David Chambers

executed this

Signature of ASSIGNOR(s)

Date

David W. Paglieroni

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- U.S. Patent Application Serial No. 16/603977, filed on 10/09/2019
- International Application Serial No. _____, filed on _____

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AND the ASSIGNOR(S) requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States and any reissue or extension thereof to the ASSIGNEE, Lawrence Livermore National Security, LLC.

executed this

11/15/19
Date

Signature of ASSIGNOR(s)

N. Reginald Beer
N. Reginald Beer

executed this

Date

Signature of ASSIGNOR(s)

David Chambers

executed this

Date

Signature of ASSIGNOR(s)

David W. Paglieroni

PATENT

RECORDED: 01/09/2020

REEL: 051470 FRAME: 0423