505454597 05/01/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE

CONVEYING PARTY DATA

Name	Execution Date
HAL TECHNOLOGY	10/30/2018

RECEIVING PARTY DATA

Name:	DEPARTMENT OF THE NAVY
Street Address:	47076 LILJENCRANTZ ROAD
Internal Address:	BLDG. 435
City:	PATUXENT RIVER
State/Country:	MARYLAND
Postal Code:	20670

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15878117

CORRESPONDENCE DATA

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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.

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Address Line 1: 47076 LILJENCRANTZ ROAD

Address Line 2: BLDG 435

Address Line 4: PATUXENT RIVER, MARYLAND 20670

ATTORNEY DOCKET NUMBER:	N68335-12-C-0040	
NAME OF SUBMITTER:	TANYA BASHIOUM	
SIGNATURE:	/TMB/	
DATE SIGNED:	05/01/2019	

Total Attachments: 2

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PATENT 505454597 REEL: 049045 FRAME: 0106

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OMB No. 0651-0027 (exp. 03/31/2012)	,

U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office

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1. Name of conveying party(ies)	2. Name and address of receiving party(ies)	
	Name: Department of the Navy	
Hal Technology, LLC	Internal Address: Office of Counsel, Building 435	
Additional name(s) of conveying party(ies) attached? Yes X No		
3. Nature of conveyance/Execution Date(s):	Street Address: 47076 Liljencrantz Road	
Execution Date(s)10/30/18		
Assignment Merger	0.4	
Security Agreement Change of Name	City: Patuxent River	
Joint Research Agreement	State: Maryland	
Government Interest Assignment	Country: USA Zip: 20670	
Executive Order 9424, Confirmatory License	2.p. 20070	
Other	Additional name(s) & address(es) attached? Yes X No	
4. Application or patent number(s): This document is being filed together with a new application. A. Patent Application No.(s) B. Patent No.(s)		
15878117	·	
Additional numbers att	l ached? ☐ Yes ☒ No	
5. Name and address to whom correspondence	6. Total number of applications and patents	
concerning document should be mailed:	involved: 1	
Name: Mark Glut	7. Total fee (37 CFR 1.21(h) & 3.41) \$0	
Internal Address: Office of Counsel, Building 435	<u>·</u>	
	Authorized to be charged to deposit account	
Street Address: 47076 Liljencrantz Road	Enclosed	
	None required (government interest not affecting title)	
City: Patuxent River	8. Payment Information	
State: MD Zip: 20670		
Phone Number: 301-342-9565	Deposit Assessmt Number (1999)	
Fax Number: (301) 995-0823	Deposit Account Number _500938	
Email Address: tanya,bashtoum@navy,mil	Authorized User Name GLUT	
9. Signature: NJ DX	1/07/2019	
Signature	/ / Date	
Mark 0. GW Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:	

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Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

N68335-12-C-0040

CONFIRMATORY INSTRUMENT

APPLICATION FOR (TITLE OF INVENTION)		
Method and system for particle characterization in ha	arsh environments	
INUTATIONS (S)		
INVENTORS(S)	•	
Hai Lin, Gregor A. Waldherr		
SERIAL NO. 15878117	FILING DATE January 23, 2018	
CONTRACTOR	CONTRACT NO.	
Hal Technology, LLC	N68335-12-C-0040	
The Invention Identified above is a "Subject Invention" under Patent Rights Clause Government Rights (Identify clause by title and date) Included in Contract No. N68335-12-C-0040 with US Navy NAVAIR (specify government agency)		
This document confirms the paid-up license granted to the governany resulting patent, and all other rights acquired by the government.	ment under this contract in this invention, patent application, and ent through the referenced clause.	
The government is hereby granted an irrevocable power to inspec	ct and make copies of the above-identified patent application.	
Signed this 30 H day of Cotober_, 20_4	<u>/&</u>	
ATTEST:	Hal Technology, LLC	
(Seal)	BY: Has Lin, president CONTRACTOR'S OFFICIAL AND TITLE	
	7970 Cherry Ave., Suite 303 Fontang, CA 92336 BUSINESS ADDRESS	