# 505703054 10/02/2019 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
STEVEN S. BISHOP	08/29/2019
TIMOTHY R. MOORE	08/29/2019
PETER M. GUGINO	08/29/2019
ROBERT H. LUKE III	09/05/2019
BRETT T. SMITH	09/06/2019
MURRAY S. KORMAN	09/04/2019
KATHRYN P. KIRKWOOD	08/31/2019

## **RECEIVING PARTY DATA**

Name:	UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY OF THE ARMY
Street Address:	PENTAGON
City:	WASHINGTON
State/Country:	D.C.
Postal Code:	20310

### **PROPERTY NUMBERS Total: 1**

Property Type	Number		
Application Number:	16590608		

### CORRESPONDENCE DATA

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NAME OF SUBMITTER:	RICHARD J. KIM					
SIGNATURE:	/RICHARD J. KIM/					

## 505703054

DATE SIGNED:	10/02/2019		
Total Attachments: 4			
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#### ASSIGNMENT

#### (Government Employee)

Title of Invention: Interferometric Synthetic Aperture Acoustic Imager

#### Inventor (s): Steven S. Bishop; Timothy R. Moore; Peter M. Gugino; Robert H. Luke, III; Brett T. Smith; Mehrdad Soumekh; Murray S. Korman; Kathryn P. Kirkwood

*Conial Number			still n		
Serial Number	·····		*Filing Date		
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Docket Number	NVL 3405		Oath Davasies		
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(I) (We), Steven S. Bishop , the undersigned inventor(s), in consideration of the rights of the Government of the United States acquired by virtue of the circumstances under which the above-entitled invention was made, hereby:

1. Assign to the Government of the United States, as represented by the Secretary of the Army, the entire right, title and interest throughout the United States, its Territories, Possessions, and Puerto Rico, in and to the above-entitled invention and application for patent and all Letters Patent issuing thereon, and any continuation, continuation-in-part or division of said application and any reissue or extension of said Letters Patent.

2. Agree to assign to the Government upon its request all right, title and interest in the invention in those foreign countries in which the Government determines to cause an application to be filed; provided that if the Government determines not to cause an application to be filed in any particular foreign country or fails to make such a determination, all right, title and interest in the invention in such foreign country shall remain in me (us), subject to a nonexclusive. irrevocable, royalty-free license to the Government in any patent which may issue on the invention in such foreign country, including the power to issue sublicenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

3. Agree to provide any further information within my (our) knowledge and to execute any further documents necessary to the prosecution of patent applications on the invention, the prosecution and settlement of interferences and recording of title to patent applications and patents issuing thereon.

Signature of	nventor: Atro A Soly
Address	Fredericksburg Virginia
	Locality County State
<u>Date: 24</u>	<u>Ny 70 А Steven S. Bishop</u> Inventor's Typed Name
	inventor s ryped manie
County of <u>S</u> On the above foregoing ins	dateSteven S. Bishop, known to me to be the individual described in and who executed th rument duly appeared before me and acknowledged to me that he executed the same as his own free a
BLOSE BY PU REG 8 7231142	(Signature of Notary Public)
P REG # 6 7231142 COMMISSION EXPIRES 5/31/2020 €	My Commission expires on <u>5/3/2020</u> S/31/2020 S/31/20
WEALTH OT MAN	PATENT
	REEL: 050607 ERAME:

Inventor(s): Steven S. Bishop; Timothy R. Moore; Peter M. Gugino; Robert H. Luke, III; Brett T. Smith; Mehrdad Soumekh; Murray S. Korman; Kathryn P. Kirkwood

		irst Name	Initial		Last Name	
Address:	Alexandria			Virginia		
	Locality		County	State		

State of (VIRGINIA)

)55.

)ss.

County of (FAIRFAX)

On the above date Timothy R. Moore , known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that he executed the same as his own free 

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(SEALS	H BLOSE REG # 7231142 COMMISSION EXPIRES 5/31/2020	My	Commission	Expires on	<u></u>
Signature o	f Inventor.	P→ <sub>Cu</sub>	M. Gur Initial	<u>sens</u>	Last Name
Address:	Fairfax Station		Fairfax	Virginia	
9			County	State	
Date	29/2019		Inventor's T	yped Name	Peter M. Gugino

State of (VIRGINIA)

County of (FAIRFAX)

On the above date Peter M. Gugino , known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that he executed the same as his own free act and the filler,

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	A	BY DI	Alay!	84
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Beth Blose Cain (Signature of Notary) My Commission Expires on <u>5312020</u>

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Title of Invention: Interferometric Synthetic Aperture Acoustic Imager

Inventor(s): Steven S. Bishop; Timothy R. Moore; Peter M. Gugino; Robert H. Luke, III; Brett T. Smith; Mehrdad Soumekh; Murray S. Korman; Kathryn P. Kirkwood

Signature of I		l.,	12	letter -
Signature of i		Name Initial		Last Name
Address:	Alexandria	Fairfax	Virginia	
	Locality	County	State	
Date	15/19	Inventor's Ty	ped Name	Robert H. Luke, III
State of				
County of <u>(</u> F	)ss. 			
On the foregoint	he above date Ro	bert H. Luke, III , kno	wn to me to be	the individual described in and who exec
act and over			LA b	me that he executed the same as his own t lose (a.i.
орина	G # 6	(Signatu	re of Notary)	
(SIN) EXP 5/31	TH Of LUNING	My Commission I	Expires on Line	<u>05 31 20</u> 20
Signature of I		łt	5	<u>mith</u>
	First	Name Initial	1	.ast Name
Address:	Arlington Locality	Arlington	Virginia	
Date	106 / 2019	County Inventor's Ty	State ped Name _B	rett T. Smith
State of (VIR	GINIA)			
County of (F	)ss. `AIRFAX)			
exposited the	ne above date <u>Bre</u> Sregoing instrumen	<u>ett T. Smith</u> , k t duly appeared before m	nown to me to e and acknow	be the individual described in and who ledged to me that he executed the same as
2 REG # 2 REG # 2 723114 2 COMMISSI EXPIRE 5 A\$/01/202 4		Bet	L BL	<u>ese Carin</u>
COMMISSI EXPIRE A \$/01/202	ION / 5 5 10 / 5 5	(Signatu	re of Notary)	
WEALTH	or Altres De Altres Altres	My Commission I	Expires on	05/31/2020

Title of Invention: Interferometric Synthetic Aperture Acoustic Imager

Inventor(s): Steven S. Bishop; Timothy R. Moore; Peter M. Gugino; Robert H. Luke, III; Brett T. Smith; Mehrdad Soumekh; Murray S. Korman; Kathryn P. Kirkwood

Signature of Inventor: <u>Minway J. Koursan</u> First Name Initial Last Name	
Address: <u>Annapolis</u> Anne Arandel Maryland	
Locality County State	
Date September 4(2019) Inventor's Typed Name Murray S. Korman	
State of <u>Virgin</u>	
County of (Fairfax)	
On the above date Murray S. Korman , known to me to be the individual described in and who executed the foregoing instrument duly appeared before me and acknowledged to me that he executed the same as his own free act and de HELOSE (Signature of Notary) (SEAL O REG * (Signature of Notary) My Commission Expires on 05 31 2020	ed
Signature in ATHYN P. KM/kwood ALTH First Name Initial Last Name	
Address: Annapolis Anne Arundel Maryland	
Locality County State	
Date AUGUST 31,2019 Inventor's Typed Name Kathryn P. Kirkwood	
State of (Marghal)	
County of (An Acred)	
On the above date <u>Kathryn P. Kirkwood</u> , known to me to be the individual described in and who executed th foregoing instrument duly appeared before me and acknowledged to me that he executed the same as his own free act and de	e ed.

(Signature of Notary)

(SEAL)

My Commission Expires on 10/Ap2020

RYAN PAUL GILL NOTARY PUBLIC STATE OF MARYLAND My Commission Expires May 10, 2020

RECORDED: 10/02/2019