507056585 01/04/2022

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
HARVARD UNIVERSITY	10/18/2021

RECEIVING PARTY DATA

Name:	THE GOVERNMENT OF THE UNITED STATES AS REPRESENTED BY THE SECRETARY OF THE ARMY
Street Address:	521 FRAIM ST
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City:	FORT DETRICK
State/Country:	MARYLAND
Postal Code:	21702

PROPERTY NUMBERS Total: 10

Property Type	Number
Application Number:	61367023
Application Number:	61367051
Application Number:	61367056
Application Number:	15040227
Application Number:	15014476
Application Number:	15014601
Application Number:	15010132
Application Number:	15040256
Application Number:	61367018
Application Number:	61367068

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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Email: jesse.a.coelho.civ@mail.mil

Correspondent Name: JESSE COELHO
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507056585 REEL: 058570 FRAME: 0684

PATENT

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NAME OF SUBMITTER:	JESSE COELHO	
SIGNATURE:	/jcoelho/	
DATE SIGNED:	01/04/2022	

Total Attachments: 10

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nvention Title: Methods of Detection					
Inventor(s): Amin I. Kassis					
U.S. Filing/Issue Date: 07/23/2010					
Patent or Application Serial No.: 61/367,023					
Grant/Contract Number(s): W81XWH-09-1-0210					
Foreign Applications filed/intended in	UR PATENT OFC, CANADA, AUSTRALIA				

The invention identified above is a Subject Invention under **35 U.S.C. 200**, **et seq.**, and the Standard Patent Rights clause at **37 CFR 401.14**, **FAR 52.227-11** or **FAR 52.227-12** (if applicable) which are included among the terms of the above identified grant or contract award from the United States Government. This document is confirmatory of:

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- 2. All other rights acquired by the Government by reason of the above identified grant/contract award and the laws and regulations that are applicable to the award.

The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Signed	this _	18th	day of O	ctober	_, 20	<u>21</u>
		/ Powell nal Business Official)		Lindsey Powe (Signature)	ll	
Title	Patent	Administrator				
For HAF	RVARD	UNIVERSITY				
	(Grai	ntee/Contractor Organizatio	n)			
At 135	50 Ma	ssachusetts Ave. Camb	oridge,	MA 02138		
(Bu	siness	Address)				

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Invention Title: Methods of Detection						
Inventor(s): Amin I. Kassis						
111VOIRON(3). 1211211 11 1148515						
U.S. Filing/Issue Date: 07/23/2010						
Patent or Application Serial No.: 61/367,051						
Grant/Contract Number(s): W81XWH-09-1-0210						
Foreign Applications filed/intended in (countries):	ANADA, AUSTRALIA, EUR PATENT OFC					

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Sigr	ned this	18th	_day of _	October	_, 20 <u>21</u> .
Ву	Lindsey	Powell		Lindsey Po	owell
	(Institutio	nal Business Official)		(Signature)	
Title	Patent	Administrator			
For	HARVARI	UNIVERSITY			
	(Gra	ntee/Contractor Organizatio	n)		
At	1350 Ma	ssachusetts Ave. Cam	bridge,	, MA 02138	
	(Rusines	s Address)			

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Invention Title: Methods of Detection
Inventor(s): Amin I. Kassis
U.S. Filing/Issue Date: 02/10/2016
Patent or Application Serial No.: 15/040,227
Grant/Contract Number(s): W81XWH-09-1-0210
Foreign Applications filed/intended in (countries):

The invention identified above is a Subject Invention under **35 U.S.C. 200, et seq.**, and the Standard Patent Rights clause at **37 CFR 401.14, FAR 52.227-11** or **FAR 52.227-12** (if applicable) which are included among the terms of the above identified grant or contract award from the United States Government. This document is confirmatory of:

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Sig	ned this	_day of _ ^{Octo}	ober	_, 20 <u>21</u> ·	
Ву	Lindsey Powell	,	Lindsey Powe (Signature)	ell	
	(Institutional Business Official)		(Signature)		
Title	Patent Administrator				
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	(Grantee/Contractor Organization	on)			
٩t	1350 Massachusetts Ave. Cam	bridge, MA	A 02138		
	(Business Address)		<u> </u>		

For HARVARD UNIVERSITY

(Business Address)

(Grantee/Contractor Organization)

At 1350 Massachusetts Ave. Cambridge, MA 02138

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Invention Title: Methods of Detection	
Inventor(s): Amin I. Kassis	
U.S. Filing/Issue Date: 02/03/2016	
Patent or Application Serial No.: 15/014,476	
Grant/Contract Number(s): W81XWH-09-1-0210	
Foreign Applications filed/intended in (countries):	
The invention identified above is a Subject Invention under 35 U.S.C. 200, et seq. , and the Stand at 37 CFR 401.14, FAR 52.227-11 or FAR 52.227-12 (if applicable) which are included among the identified grant or contract award from the United States Government. This document is confirmate	e terms of the above
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The Government is hereby granted an irrevocable power to inspect and make copies of the above application.	-identified patent
Signed this 18th day of October , 20 21	
By Lindsey Powell (Institutional Business Official) Lindsey Powell (Signature)	
TitlePatent Administrator	

Sign and submit the executed	document to the appropria	ate fundina agency (e.g.	upload in iEdison).

nvention Title: Methods of Detection
nventor(s): Amin I. Kassis
J.S. Filing/Issue Date: 02/03/2016
Patent or Application Serial No.: 15/014,601
Grant/Contract Number(s): W81XWH-09-1-0210
Foreign Applications filed/intended in (countries):

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Sig	ned this	18th	_day of	toper	, 20 <u>21</u> ·	
Ву	Lindse	ey Powell		Lina	lsey Powell	
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Inv	vention Title: Methods of Detection	
Inv	ventor(s): Amin I. Kassis	
U.	S. Filing/Issue Date: 01/29/2016	
Pa	tent or Application Serial No.: 15/010,132	
Gr	ant/Contract Number(s): W81XWH-09-1-0210	
Fo	reign Applications filed/intended in (countries):	
at	e invention identified above is a Subject Invention under 35 U.S.C. 200, et seq. , and the Stand 37 CFR 401.14, FAR 52.227-11 or FAR 52.227-12 (if applicable) which are included among the entified grant or contract award from the United States Government. This document is confirmate	e terms of the above
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2.	All other rights acquired by the Government by reason of the above identified grant/contract avand regulations that are applicable to the award.	

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Sigr	ned this	18th	day of	October	, 20 21	
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	(Busines	ss Address)				

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Invention Title: Methods of Detection
Inventor(s): Amin I. Kassis
U.S. Filing/Issue Date: 02/10/2016
Patent or Application Serial No.: 15/040,256
Grant/Contract Number(s): W81XWH-09-1-0210
Foreign Applications filed/intended in (countries):

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Sig	ned this	18th	_day of	ctoper	, 20 ²¹	
Ву	Lindsey	Powell		Lindse	y Powell	
•	(Institutio	nal Business Official)		(Signature)	,	
Title	ePatent	Administrator				
For	HARVARD	UNIVERSITY				
	(Grai	ntee/Contractor Organizatio	n)			
٩t	1350 Ma	ssachusetts Ave. Cam	bridge, 1	MA 02138		
	(Business	Address)				

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vention Title: Methods of Detection									
nventor(s): Amin I. Kassis									
J.S. Filing/Issue Date: 07/23/2010									
Patent or Application Serial No.: 61/367,018									
Grant/Contract Number(s): W81XWH-09-1-0210									
Foreign Applications filed/intended in (countries):	AUSTRALIA,	CANADA,	EUR	PATENT	OFC				

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	(Institutio	onal Business Official)		(Signature)	0	
Title	ePatent	Administrator				
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	(Gra	ntee/Contractor Organization	on)			
At	1350 Ma	assachusetts Ave. Cam	bridge	, MA 02138		
	(Rusines	s Address)				

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nvention Title: Methods of Detection							
Inventor(s): Amin I. Kassis							
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U.S. Filing/Issue Date: 07/23/2010							
Patent or Application Serial No.: 61/367,068							
Grant/Contract Number(s): M81XWH-09-1-0210							
Foreign Applications filed/intended in (countries):	NADA, EUR PATENT OFC, AUSTRALIA						

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Ву	Lindsey	/ Powell			<u>Linds</u> (Signature)	rey Pou	rell	
	(Institutio	onal Business Off	ficial)		(Signature)	1		
Title	Patent	t Administrator					_	
For	HARVARI	UNIVERSITY						
	(Gra	intee/Contractor	Organization)					
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	(Rusines	s Address)					•	

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Invention Title: Methods of Detection							
Inventor(s): Amin I. Kassis							
U.S. Filing/Issue Date: 07/23/2010							
Patent or Application Serial No.: 61/367,056							
Grant/Contract Number(s): W81XWH-09-1-0210							
Foreign Applications filed/intended in							
•	CANADA,	AUSTRALIA,	EUR	PATENT	OFC		

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By Lindse	y Powell		Lindsey (Signature)	Powell
(Instituti	ional Business Official)		(Signature)	
Title_Patent /	Administrator			
For HARVAR	D UNIVERSITY			
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RECORDED: 01/04/2022