## 505200500 11/20/2018 PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:		ASSIGNMENT		
CONVEYING PARTY	/ DATA			
		Name	Execution Date	
AARON COUTURE			10/17/2018	
JEFFREY M. DENKE	R		10/18/2018	
JONATHAN EDWAR	D EVERETT		10/22/2018	
RECEIVING PARTY	DATA			
		In Science and Engineering, Inc.		
Street Address:		829 Middlesex Turnpike		
City:	Billerica	Billerica		
State/Country:	MASSA	MASSACHUSETTS		
Postal Code:	01821			
Property Typ	pe	Number	]	
PROPERTY NUMBERS Total: 1 Property Type				
Property Typ Application Number		Number 15490787		
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## ASSIGNMENT

WHEREAS, we, below named, listed and undersigned inventors,

Co-Inventor: Aaron Couture, a citizen of the United States of America, residing at 56 Pearl Street, Reading, MA 01867, United States of America,

Co-Inventor: Jeffrey M. Denker, a citizen of the United States of America, residing at 5 Diana Drive, Woburn, MA 01801, United States of America, and

Co-Inventor: Jonathan Edward Everett, a citizen of the United States of America, residing at 21 Ingleside Road, Lexington, MA 02420, United States of America

have invented certain new and useful improvements in "Spectral Discrimination using Wavelength-Shifting Fiber-Coupled Scintillation Detectors", for which an application for Letters Patent in the United States has been filed on April 18, 2017, and has been assigned Serial No. 15/490,787 and is a continuation application of United States Patent Application Number 15/050,894, entitled "Spectral Discrimination Using Wavelength-Shifting Fiber-Coupled Scintillation Detectors", filed on February 23, 2016, and issued as United States Patent Number 9,658,343 on May 23, 2017, which is a division application of United States Patent Application Number 13/758,189, entitled "X-Ray Inspection Using Wavelength-Shifting Fiber-Coupled Scintillation Detectors", filed on February 4, 2013, and issued as United States Patent Number 9,285,488 on March 15, 2016, which, in turn, claims the priority of United States Provisional Patent Application Number 61/607,066 filed on March 6, 2012, United States Provisional Patent Application Number 61/598,576 filed on February 14, 2012 (collectively all applications are referred to as "Applications"):

AND WHEREAS, American Science and Engineering, Inc., (hereinafter "ASSIGNEE"), a corporation, with its principal place of business at 829 Middlesex Turnpike, Billerica, MA 01821, desires to acquire the entire right, title, and interest in and to the said Applications:

NOW, THEREFORE, in consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said Applications, and all provisional applications relating thereto, and all divisions, renewals and continuations or continuations-in-part thereof, and all Letters Patent of the United States which may be granted thereon and all reissues, reexaminations, and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said Applications in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and all extensions in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the said Applications as aforesaid, to issue all Letters Patent for said Applications to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said Applications, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reexamination, and reissue applications, make all rightful oaths and declarations and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said Applications in all countries.

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PATENT REEL: 047558 FRAME: 0331 In some jurisdictions, a Notary Public or other office completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

IN TESTIMONY WHEREOF, Assignor intending to be headly bound has hereinno affixed his signature. This 17 day of October, 20/5 Signature of Aaron Couture STATE OF MM COUNTY OF middle 70071 Sbefore me, Hauen Casture Notary Public, personally appeared Aaron On Coulure who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the above-mentioned jurisdiction that the foregoing garagraph is in a submitted to the submitted to th Sany hand and official seal. 1920 d Notary Signature nunnun ( NOTA In some jurisdictions, a Notary Public or other office completing this certificate verifies only the identity of the individual

who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

IN TESTIMONY WHEREOF, Assignor intending to be legally bound has hereunto affixed his signature.

This 18 day of October, 20 18

Signative Steffrey M. Denker

STATE OF Massulanella COUNTY OF NULLOS C.

On  $\bigcirc$  Other We before me,  $\bigcirc$   $\bigcirc$   $\bigcirc$   $\bigcirc$   $\bigcirc$   $\bigcirc$  Notary Public, personally appeared Jeffrey M. Denker who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the above-mentioned jurisdiction that the foregoing paragraph is true and correct.

AND THE REAL PROPERTY OF WITNESS my hand and otheral ACHUS Notar/Signature My Car

PATENT REEL: 047558 FRAME: 0332

[SEAL]

Attorney Docket Number: ASEC14DIV.Con Application No.: 15/490,787

In some jurisdictions, a Notary Public or other office completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

IN TESTIMONY WHEREOF, Assignor This <u>23</u> day of <u>2666</u> , 2018	intending to be legally bound has hereiuno affixed his signature. Signature of Jonathan Edward Everett
STATE OF New Hampshire	
COUNTY OF dillisbarougn	

On OC+ 33, 2018, before me, <u>Angele Kinne</u>, Notary Public, personally appeared Jonathan Edward Everett who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the above-mentioned jurisdiction that the foregoing paragraph is true and correct.

WITNESS my hand and official seal,

[SEAL]

مرجد بريان	
і. 4.	Angela Kinne
Notan	Public, State of New Hampshire
100	namission Expansi Feb 25, 2020
1.000	

alles Notary Signature

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**RECORDED: 11/20/2018**