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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4517169

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
ANATOLI ARODZERO		02/06/2013
JOSEPH CALLERAME		02/06/2013
DAN-CRISTIAN DINCA		02/06/2013
RAJED SUD		02/06/2013
LEE GRODZINS		02/06/2013
MARTIN ROMMEL		02/06/2013
PETER ROTHSCHILD		02/06/2013

JEFFREY SCHUBERT

RECEIVING PARTY DATA

Name:	AMERICAN SCIENCE AND ENGINEERING, INC.	
Street Address:	829 MIDDLESEX TURNPIKE	
City:	BILLERICA	
State/Country:	MASSACHUSETTS	
Postal Code:	01821	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15490787

CORRESPONDENCE DATA

Fax Number:	(714)	464-5413		
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.				
Phone:	949-795-2386			
Email:	michael@novelip.com			
Correspondent Name:	SONA DALAL			
Address Line 1:	191 V	VEST SECOND STREET		
Address Line 4:	SANTA ANA, CALIFORNIA 92701			
ATTORNEY DOCKET NUMBER:		ASEC14DIV_CON		
NAME OF SUBMITTER:		SONA DALAL		
SIGNATURE:		/SONA DALAL/		

02/04/2013

DATE SIGNED:	07/24/2017	
Total Attachments: 6		
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ASSIGNMENT

ASSIGNOR:	Anatoli Arodzero
	Joseph Callerame
	Dan-Cristian Dinca
	Rajen Sud
	Lee Grodzins
	Martin Rommel
	Peter Rothschild
	Jeffrey Schubert
	-Larry McNamara-

ASSIGNEE: American Science and Engineering, Inc. 829 Middlesex Turnpike Billerica, MA 01821

STATE OF INCORPORATION OF ASSIGNEE: MA

INVENTION:	X-Ray Inspection Using Wavelength-Shifting Fiber-Coupled Scintillation Detectors
ATTORNEY DOCKET:	1945/B79
<u>SERIAL NO</u> :	13/758,189
FILING DATE:	February 4, 2013

Assignors are joint inventors of the above invention (the "Invention") described in a United States patent application (the "Application") bearing the above attorney docket number and having as a title the above name for the Invention. The Application has a Patent and Trademark Office filing date and serial number as indicated above, or if no filing date and serial number are shown, has a Declaration executed by Assignor contemporaneously with this Assignment.

For valuable consideration, receipt of which is acknowledged, each Assignor hereby assigns to Assignee (which term shall include Assignee's successors and assigns), all of Assignor's right, title and interest in the Invention, all improvements therein, the Application and all priority rights arising therefrom, and any patents, and any reissues and extensions thereof, which issue in any country upon any patent applications which correspond with any of the following: the Application, any divisional, continuation-in-whole, or substitute United States application which is based on the Application; or any continuation-in-part United

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States application (including divisions, continuations-in-whole or -in-part, and substitutions thereof or therefor) based in-part on any of the above described applications.

Each Assignor further agrees that such Assignor and Assignor's heirs and legal representatives will, without further consideration, cooperate with Assignee in the prosecution of all of the above applications, execute, verify, acknowledge and deliver all such further papers, including applications for patents and for reissues and extensions therefor, and instruments of assignment and transfer thereof, and will communicate any facts known to Assignor relating to the Invention, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries and to vest title thereto in Assignee. Each Assignor during the term of such Assignor's employment by Assignee and thereafter for reasonable compensation as determined by Assignee, perform such other acts as may be reasonably required when requested by Assignee, including attending depositions, preparing and executing declarations and affidavits and testifying as a witness, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries therein in any and all countries and to vest title thereto in Assignee and thereafter for reasonable required when requested by Assignee, including attending depositions, preparing and executing declarations and affidavits and testifying as a witness, to obtain or maintain or enforce patents for the Invention and improvements therein in any and all countries and to vest title thereto in Assignee.

IN WITNESS WHEREOF, each Assignor hereby executes this instrument on the date set forth below.

Date: _02.06.2013

Anatoli Arodžero, Assignor

)))

COMMONWEALTH OF MASSACHUSETTS COUNTY OF Middlesex

On this 6th day of *February*, 2013, before me, the undersigned notary public, personally appeared Anatoli Arodzero, proved to me through satisfactory evidence of identification, which consisted of *fearance*, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed at to unitarily for its stated purpose.

- 2 -

Seal

June Nanterigio Notary Public

My commission expires: 12-26-2019

Date: <u>2/6/13</u>

Joseph Callerame Joseph Callerame, Assignor

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)

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF Middlesey

On this 6 day of *Ebreary* 2013, before me, the undersigned notary public, personally appeared Joseph Callerame, prøved to me through satisfactory evidence of identification, which consisted of <u>lersona</u>, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose.



Notary Public My commission expires: 12-26-2019

Date: 02/06/2013

Dan-Cristian Dinca, Assignor

)

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF Middlesex

On this <u>6</u>th day of <u>Educary</u>, 2013, before me, the undersigned notary public, personally appeared Dan-Cristian Dinca, proved to me through satisfactory evidence of identification, which consisted of <u>*Recsoval*</u>, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose.

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Seal



<u>Sure</u> <u>Jeene</u> <u>Jeene</u> Notary Public My commission expires: 12-26-2019

Date: 2/6/13

Rajen Sud, Assignor

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)

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF Middlesex

On this $\frac{f^{+h}}{f^{-h}}$ day of $\frac{f_{-h}}{f_{-h}}$, 2013, before me, the undersigned notary public, personally appeared Rajen Sud, proved to me through satisfactory evidence of identification, which consisted of <u>*Persoval</u>*</u> _____, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed in a signed in a signed in the signed in



June M Lan leigne Notary Public My commission expires: 12-26-2019 Lee Grodzins, Assignor Date: Feb 6, 2013 COMMONWEALTH OF MASSACHUSETTS) COUNTY OF Middlesex

On this $\int \frac{d^{2}h}{dt} dt = 0$ and $\int \frac{d}{dt} \int \frac{d}{dt} \frac{d}{dt}$ identification, which consisted of Keesowal, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose.

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Seal



June Mantaigne Notary Public

My commission expires: 12-26-2019

Date: 2/6/13

Martin Rommel, Assignor

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)

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF Middlesey

On this $\underline{6^{+h}}$ day of <u>Februar</u>, 2013, before me, the undersigned notary public, personally appeared Martin Rommel, proved to me through satisfactory evidence of identification, which consisted of <u>Fersovel</u>, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it manufarily for its stated purpose.

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June <u>Kanleigke</u> Notary Public

My commission expires: 12-26-2019

Peter Rothschild, Assignor

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COMMONWEALTH OF MASSACHUSETTS COUNTY OF Middlesex

On this \mathcal{L}^{+h} day of *Ekorean* 2013, before me, the undersigned notary public, personally appeared Peter Rothschild, proved to me through satisfactory evidence of identification, which consisted of fuseenal _____, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose.

- 5 -

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Yune M Kastigne Notary Public My commission expires: 12-26-2019

Date: 2/4/2013

hubert, Assignor

COMMONWEALTH OF MASSACHUSETTS

COUNTY OF Middlesex

On this $\underline{///}^{\mu H}$ day of $\underline{//}^{\mu H}$ day of $\underline{//}^{\mu H}$, 2013, before me, the undersigned notary public, personally appeared Jeffrey Schubert, proved to me through satisfactory evidence of identification, which consisted of <u>*Lensoval*</u>, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed in a untarily for its stated purpose.

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Notary Public My commission expires: 12 - 26 - 2019

Date: Larry MeNamara, Assignor STATE/COMMONWEALTH OF COUNTY OF

On this _____ day of _____, 2013, before me, the undersigned notary public, personally appeared Larry McNamara, proved to me through satisfactory evidence of identification, which consisted of , to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose.

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Notary Public

My commission expires:

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RECORDED: 03/04/2016

PATENT REEL: 033980 FRAME: 0900