

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Quang-Viet Nguyen</td> <td>10/04/2012</td> </tr> <tr> <td>David G Fischer</td> <td>10/04/2012</td> </tr> <tr> <td>Jun Kojima</td> <td>10/04/2012</td> </tr> </tbody> </table>		Name	Execution Date	Quang-Viet Nguyen	10/04/2012	David G Fischer	10/04/2012	Jun Kojima	10/04/2012
Name	Execution Date								
Quang-Viet Nguyen	10/04/2012								
David G Fischer	10/04/2012								
Jun Kojima	10/04/2012								
RECEIVING PARTY DATA									
Name:	United States Government Administrator of National Aeronautics and Space Administration								
Street Address:	300 E Street, SW								
City:	Washington								
State/Country:	DISTRICT OF COLUMBIA								
Postal Code:	20546-0001								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12893627</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12893627				
Property Type	Number								
Application Number:	12893627								
CORRESPONDENCE DATA									
Fax Number:	2164336790								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	(216) 433-3663								
Email:	Robert.H.Earp@nasa.gov								
Correspondent Name:	Robert H. Earp, III								
Address Line 1:	21000 Brookpark Road								
Address Line 2:	MS 21-14								
Address Line 4:	Cleveland, OHIO 44135								
ATTORNEY DOCKET NUMBER:	LEW 18483-1								
NAME OF SUBMITTER:	Robert H. Earp, III								
Total Attachments: 7									

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**RECORDATION FORM COVER SHEET
PATENTS ONLY**

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Quang-Viet Nguyen

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name: United States Government Administrator of National Aeronautics and Space Administration
Internal Address: _____
Street Address: 300 E Street, SW
City: Washington
State: DC
Country: USA Zip: 20546-0001
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance/Execution Date(s):
Execution Date(s) October 4, 2012
 Assignment Merger
 Security Agreement Change of Name
 Joint Research Agreement
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other _____

4. Application or patent number(s): This document serves as an Oath/Declaration (37 CFR 1.63).
A. Patent Application No.(s)

12/893,627

Additional numbers attached? Yes No

B. Patent No.(s)

5. Name and address to whom correspondence concerning document should be mailed:
Name: Robert H. Earp, III
Internal Address: MS 21-14
Street Address: 21000 Brookpark Road
City: Cleveland
State: OH Zip: 44135
Phone Number: (216) 433-3663
Docket Number: LEW 18483-1
Email Address: Robert.H.Earp@nasa.gov

6. Total number of applications and patents involved: _____
7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
 Authorized to be charged to deposit account
 Enclosed
 None required (government interest not affecting title)

8. Payment Information
Deposit Account Number 14-0116
Authorized User Name Robert H. Earp, III

9. Signature: _____ 10/23/2012
Signature Date

Robert H. Earp, III Total number of pages including cover sheet, attachments, and documents:
Name of Person Signing

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

Continuation of the information for item one
Name of conveying parties

Additional names of conveying parties:

David G. Fischer
Jun Kojima



National
Aeronautics and
Space
Administration

Patent Application

Assignment to the Government (by Government Employee)

Title of Invention: Interference-Free Optical Detection for Raman Spectroscopy

Inventor(s): Quang-Viet Nguyen
David G. Fischer

NASA Case No.: LEW 18483-1 Application No.: 12/893,827 Filing Date*: 09/29/2010

WHEREAS, the parties to this Assignment and Agreement are the undersigned inventor(s) and the United States Government (hereafter Government), as represented by the Administrator of the National Aeronautics and Space Administration;

WHEREAS, the making of this Assignment and Agreement is in accordance with 37 CFR Part 601; and

WHEREAS, the undersigned inventor(s) has (have) executed, on the date(s) indicated below, an application for United States Patent on the above-entitled invention.

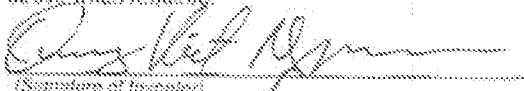
NOW THEREFORE, in consideration of employment by the Government, the undersigned hereby:

1. Assign to the Government my (our) full and exclusive right in and to said invention within the United States of America, its territories and possessions, and my (our) entire right, title and interest in and to said application, and any corresponding continuation or divisional application(s) and any patent(s) that may issue therefrom.

2. Agree to grant to the Government my (our) full and exclusive foreign rights in and to said invention, in accordance with 37 CFR 601.9(d), including rights of priority under the International Convention of Paris (1883), as amended. If the Government chooses not to file an application in any foreign country, I (we) may request rights in that country, in accordance with 37 CFR 601.9(d), and such rights will be subject to the reservation to the Government of a nonexclusive, irrevocable, royalty-free license in the invention with power to grant licenses for all governmental purposes. The terms of such reservation will appear, where practicable, in any foreign patent which may issue on such invention.

3. Agree, at the expense of the Government, (a) to execute any document for, (b) to deliver any requested information to, and (c) to cooperate in any manner with the Government in order to allow the Government to protect any interest transferred by this Assignment and Agreement.

4. Authorize and request the attorneys of record in the application to insert the application number and filing date above when required.

 10/4/2012
(Signature of Inventor) (Date Assignment Executed) (Date Application Executed)

Quang-Viet Nguyen 34790 Gypsum Way, Stone Ridge, VA 20105-2912
(Inventor's Typed Name) (Mailing Address - Including Country)

(Signature of Inventor) (Date Assignment Executed) (Date Application Executed)

David G. Fischer 4571 Forest brooke Ct. N., Richfield OH 44286
(Inventor's Typed Name) (Mailing Address - Including Country)

(Signature of Inventor) (Date Assignment Executed) (Date Application Executed)

(Inventor's Typed Name) (Mailing Address - Including Country)

NASA FORM 430 DEC 2009 PREVIOUS EDITIONS ARE OBSOLETE.



National
Aeronautics and
Space
Administration

Patent Application

Assignment to the Government (by Government Employee)

Title of Invention: Interference-Free Optical Detection for Raman Spectroscopy

Inventor(s): Quang-Viet Nguyen
David G. Fischer

NASA Case No.: LEW 18483-1 Application No.*: 12/893,627 Filing Date*: 09/29/2010

WHEREAS, the parties to this Assignment and Agreement are the undersigned inventor(s) and the United States Government (hereafter Government), as represented by the Administrator of the National Aeronautics and Space Administration;

WHEREAS, the making of this Assignment and Agreement is in accordance with 37 CFR Part 501; and

WHEREAS, the undersigned inventor(s) has (have) executed, on the date(s) indicated below, an application for United States Patent on the above-entitled invention.

NOW THEREFORE, in consideration of employment by the Government, the undersigned hereby:

1. Assign to the Government my (our) full and exclusive right in and to said invention within the United States of America, its territories and possessions, and my (our) entire right, title and interest in and to said application, and any corresponding continuation or divisional application(s) and any patent(s) that may issue therefrom.

2. Agree to grant to the Government my (our) full and exclusive foreign rights in and to said invention, in accordance with 37 CFR 501.9(d), including rights of priority under the International Convention of Paris (1883), as amended. If the Government chooses not to file an application in any foreign country, I (we) may request rights in that country, in accordance with 37 CFR 501.9(d), and such rights will be subject to the reservation to the Government of a nonexclusive, irrevocable, royalty-free license in the invention with power to grant licenses for all governmental purposes. The terms of such reservation will appear, where practicable, in any foreign patent which may issue on such invention.

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(Signature of Inventor) (Date Assignment Executed) (Date Application Executed)

Quang-Viet Nguyen 24790 Gypsum Way, Stone Ridge, VA 20105-2912
(Inventor's Typed Name) (Mailing Address - Including Country)

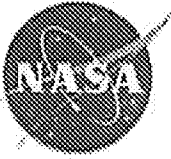
David G. Fischer 10-12-12
(Signature of Inventor) (Date Assignment Executed) (Date Application Executed)

David G. Fischer 4571 Forest brooke Ct. N., Richfield OH 44286
(Inventor's Typed Name) (Mailing Address - Including Country)

(Signature of Inventor) (Date Assignment Executed) (Date Application Executed)

(Inventor's Typed Name) (Mailing Address - Including Country)

NASA FORM 430 DEC 2000 PREVIOUS EDITIONS ARE OBSOLETE.



National Aeronautics and Space Administration

Patent Application
NASA Case No. LEW 18483-1

ASSIGNMENT and AGREEMENT

WHEREAS, the The Contractor, Ohio Aerospace Institute (The CONTRACTOR/GRANTEE) a ___ corporation, X unincorporated (check one) and existing under the laws of the State of Ohio, and having its principal place of business (or campus in the case of a college or university) at 22800 Cedar Point Road, Cleveland, Ohio 44142, (address, city, state, zip)

The said CONTRACTOR/GRANTEE having elected NDT to retain the title under the provisions of 35 U.S.C. §202 to a Subject Invention made in the performance of work under a contract/grant between the CONTRACTOR/GRANTEE and the Government of the United States of America (the Government), the Subject Invention being identified as:

TITLE: Interference-Free Optical Detection for Raman Spectroscopy

INVENTORS:

- | | | |
|-----------------------------|-----------|-----------------------------------|
| 1. <u>Quang-Viet Nguyen</u> | Employer: | <u>NASA Glenn Research Center</u> |
| 2. <u>David G. Fischer</u> | Employer: | <u>NASA Glenn Research Center</u> |
| 3. <u>Jun Kojima</u> | Employer: | <u>Ohio Aerospace Institute</u> |
| 4. _____ | Employer: | _____ |
| 5. _____ | Employer: | _____ |

P

This assignment is applicable to INVENTORS, (check appropriate)

_____(1), _____(2), X (3), _____(4), _____(5):

The said CONTRACTOR/GRANTEE being a: X small business, _____ college or university, _____ other nonprofit organization;

CONTRACT/GRANT NO. NNX07AC80A PROJECT _____

CONTRACTOR/GRANTEE CASE NO. _____

NASA CASE NO. LEW 18483-1 APPLICATION EXECUTED 9/29/2010

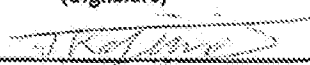
The undersigned inventor(s) in recognition of an obligation as employee(s) of the CONTRACTOR/GRANTEE to assign this invention to the CONTRACTOR/GRANTEE, and pursuant to the OBLIGATIONS OF THE CONTRACTOR/GRANTEE to the Government under the above CONTRACT/GRANT, hereby assign(s) to the Government of the United States of America as represented by the Administrator of the National Aeronautics and Space Administration (NASA), the full and exclusive right in and to the said Subject Invention within the United States of America, its territories and possessions, and the entire right, title, and interest in and to said patent application, and any applications continuing therefrom and such Letters Patent as may issue therefrom.

Assignment small entity contractor/employee to NASA

Page 1 of 3
LEW 18483-1 Assign SE Inventors to NASA.doc

The inventor(s) hereby covenant(s) that he/she (they) has (have) the right to grant the foregoing assignment and further agree(s) to the provisions stated below which are applicable to the inventor(s).

Further, the inventor(s) hereby assign(s) to the Government, the foreign rights in and to the said invention including rights of priority under the International Convention of Paris (1883), as amended.

_____	1. _____
Date	(Signature)
_____	2. _____
Date	(Signature)
10/4/12	3.  Jun Kelima
Date	(Signature)
_____	4. _____
Date	(Signature)
_____	5. _____
Date	(Signature)

The inventor(s) and the CONTRACTOR/GRANTEE further agree to make, execute, and/or deliver to the Government, upon request, but at the expense of the Government, any and all data, drawings, notes, reports, information, papers, documents, affidavits, statements or other items necessary in the prosecution of said application and of any applications continuing therefrom or applications for reissue or reexamination of said Letters Patent, or of any foreign patent or patent application, or any application continuing therefrom, and to assist the Government in every way in protecting said invention as may be requested, provided that any expense arising through such assistance will be paid by the Government.

The CONTRACTOR/GRANTEE, having elected not to retain title under the provisions of 35 U.S.C. §202 to the Subject Invention made in the performance of work under the agreement between the CONTRACTOR/GRANTEE and NASA, hereby joins in and agrees to the foregoing assignment.

Further, the CONTRACTOR/GRANTEE except for the reservation of a license as described below, relinquishes and likewise assigns all right, title, and interest in and to such invention and patent application to the Government of the United States of America as represented by the Administrator of NASA.

The CONTRACTOR/GRANTEE hereby covenants that it has the right to make the foregoing assignment.

LICENSE TO THE CONTRACTOR/GRANTEE

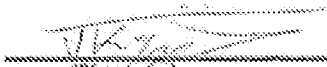
(1) The CONTRACTOR/GRANTEE shall retain a nonexclusive, royalty-free license throughout the world in the Subject Invention to which the Government obtains title. The CONTRACTOR/GRANTEE's license extends to its domestic subsidiaries and affiliates, if any, within the corporate structure of which the CONTRACTOR/GRANTEE is a part and includes the right to grant sublicenses of the same scope to the extent the CONTRACTOR/GRANTEE was legally obligated to do so at the time the contract/grant was awarded. The license is transferable only with the approval of the National Aeronautics and Space Administration except when transferred to the successor of that part of the CONTRACTOR/GRANTEE's business to which the inventor pertains.

(2) The CONTRACTOR/GRANTEE's domestic license may be revoked or modified by the National Aeronautics and Space Administration to the extent necessary to achieve the expeditious practical application of the Subject Invention pursuant to an application for an exclusive license submitted in accordance with applicable provisions in the Federal Property Management Regulations and the NASA Licensing Regulations. This license shall not be revoked in that field of use or the geographical area in which the CONTRACTOR/GRANTEE has

achieved practical application and continues to make the benefits of the invention reasonably accessible to the public. The license in any foreign country may be revoked or modified at the discretion of the National Aeronautics and Space Administration to the extent the CONTRACTOR/GRANTEE, its licensees, or its domestic subsidiaries or affiliates have failed to achieve practical application in that foreign country.

(3) Before revocation or modification of the license, the National Aeronautics and Space Administration will furnish the CONTRACTOR/GRANTEE a written notice of its intention to revoke or modify the license, and the CONTRACTOR/GRANTEE shall be allowed thirty days (or such other time as may be authorized by the National Aeronautics and Space Administration for good cause shown by the CONTRACTOR/GRANTEE) after the notice to show cause why the license should not be revoked or modified. The CONTRACTOR/GRANTEE has the right to appeal, in accordance with applicable NASA Licensing Regulations and the Federal Property Management Regulations concerning the licensing of Government-owned inventions, any decision concerning the revocation or modification of its license.

Signed this 4th day of October, 2012

SIGNED:  TITLE: Senior Scientist
(Signature) (Typed or Printed)

NAME: Jun Kojima Ohio Aerospace Institute
(Typed or Printed) Contractor or Grantee