502565508 11/12/2013

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2611294

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| NEIL REGINALD BEER | 12/01/2008 |
| IAN KENNEDY | 12/02/2008 |

RECEIVING PARTY DATA

| Name: | LAWRENCE LIVERMORE NATIONAL SECURITY, LLC |
|-------------------|---|
| Street Address: | 2300 FIRST STREET |
| Internal Address: | SUITE 204 |
| City: | LIVERMORE |
| State/Country: | CALIFORNIA |
| Postal Code: | 94550 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13732949 |

CORRESPONDENCE DATA

Fax Number:

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Correspondence will be sent via US Mail when the email attempt is unsuccessful.

Correspondent Name: MAKK H. LOUGH Address Line 1: 7000 EAST AVE.,

Address Line 2: L-703

Address Line 4: LIVERMORE, CALIFORNIA 94550

| ATTORNEY DOCKET NUMBER: | IL-11719B DIV |
|-------------------------|--------------------------|
| NAME OF SUBMITTER: | MARK H. LOUGH |
| Signature: | /Mark H. Lough/ |
| Date: | 11/12/2013 PATENT |

502565508 REEL: 031582 FRAME: 0565

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Total Attachments: 5

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| | ORM COVER SHEET SONLY |
| To the Director of the U.S. Patent and Trademark Office: Pleas | se record the attached documents or the new address(es) below. |
| 1. Name of conveying party(ies) | 2. Name and address of receiving party(ies) |
| Not Provinced Description | Name: Lawrence Livermore National Security, LLC |
| Neil Reginald Beer (USA) Ian Kennedy (USA) | Internal Address: L-703 |
| Additional name(s) of conveying party(ies) attached? Yes X No. 3. Nature of conveyance/Execution Date(s): Execution Date(s)12/02/2008 | Street Address: 7000 East Avenue |
| Assignment Merger Security Agreement Change of Name | City: Livermore |
| Joint Research Agreement | State: CA |
| Government Interest Assignment Executive Order 9424, Confirmatory License | Country: USA Zip: 94550 |
| Other | Additional name(s) & address(es) attached? Yes X No |
| 4. Application or patent number(s): A. Patent Application No.(s) 12/331487 filed 12/10/2008 | document is being filed together with a new application. B. Patent No.(s) |
| Additional numbers at | |
| 5. Name and address to whom correspondence concerning document should be mailed: | 6. Total number of applications and patents involved: 1 |
| Name: Eddie E. Scott/LLNS | 7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00 |
| Internal Address: <u>L-703</u> | , , , , |
| Street Address:7000 East Avenue | Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) |
| City: Livermore | 8. Payment Information |
| State: <u>CA</u> Zip94551 | |
| Phone Number:925-424-6897 | Deposit Assount Number |
| Fax Number: 925/423-2231 | Deposit Account Number <u>120695</u> |
| Email Address: nugent8@llnl.gov | Authorized User Name Wanda Nugent |
| 9. Signature: /Eddie E. Scott #25,220/ Signature | 02/11/2009 Date |

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

Eddie E. Scott

Name of Person Signing

5

Total number of pages including cover

sheet, attachments, and documents:

PATENT ASSIGNMENT Electronic Version v1.1 02/11/2009 500779291

Electronic Version v1.1 500779291 Stylesheet Version v1.1 SUBMISSION TYPE: **NEW ASSIGNMENT** NATURE OF CONVEYANCE: **ASSIGNMENT CONVEYING PARTY DATA Execution Date** Name 12/01/2008 Neil Reginald Beer 12/02/2008 lan Kennedy **RECEIVING PARTY DATA** Name: Lawrence Livermore National Security, LLC Street Address: 7000 East Avenue Internal Address: L-703 Livermore City: State/Country: CALIFORNIA Postal Code: 94550 PROPERTY NUMBERS Total: 1 **Property Type** Number 12331487 Application Number: **CORRESPONDENCE DATA** Fax Number: (925)423-2231 Correspondence will be sent via US Mail when the fax attempt is unsuccessful. Phone: 925/424-6897 Email: nugent8@lini.gov Correspondent Name: Eddie E. Scott/LLNS Address Line 1: 7000 East Avenue Address Line 2: L-703 Address Line 4: Livermore, CALIFORNIA 94550 ATTORNEY DOCKET NUMBER: IL-11719 NAME OF SUBMITTER: Eddie E. Scott Total Attachments: 5

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ASSIGNMENT

| LLNI | Case No.: IL-11719 | n | | |
|--|---|---|---|--|
| For g | ood and valuable consideration the rece | eipt of which is | hereby acknowledged ASSIGNOR(s) | |
| 11 | Neil Reginald Beer (USA) | 2. | Ian Kennedy (USA) | |
| 3 | | 4. | | |
| 5 | | 6. | | |
| | | | | |
| | | | | |
| hereby sells, assigns and transfers to ASSIGNEE, Lawrence Livermore National Security, LLC, a Delaware Corporation, having its administrative offices located at Sunset Plaza Building C, 1658 Holmes St., Livermore, CA 94551 and the successors, assigns and legal representative of the ASSIGNEE all of its right, title and interest for the United States and its territorial possessions and in all foreign countries in and to, any and all improvements which are disclosed in the invention entitled: LASER HEATING OF AQUEOUS SAMPLES ON A MICRO-OPTICAL-ELECTRO- | | | | |
| ME | CHANICAL SYSTEM | | | |
| and w | hich is found in | _ | | |
| | U.S. patent application executed on listing the above named persons as | 12/02/ inventors | /2008 , entitled as above and | |
| | U.S. patent application serial no. | 12/331,487 | 7 , filed on 12/10/2008 | |
| | U. S. patent no, | issued | | |
| be ob substi Conve | tained for said invention by the above tute thereof, and any reissue, reexaminentions for the Protection of Industrial I | re application on exten Property; | ling the right to claim priority and, in and to, all Letters Patent to or any continuation, division, continuation-in-part, extension or sion of said Letters Patent and all rights under all International | |
| | GNOR(S) hereby covenants that no assignment would conflict with this assignment | | agreement or encumbrance has been or will be made or entered | |
| ASSIGN | GNOR(S) further covenants that ASSI nents relating to said invention and s GNOR and will testify as to the same te and deliver to ASSIGNEE or its leg btain, maintain, issue or enforce said a may be necessary or desirable to carry | GNEE will, up aid Letters Pat in any interfere al representative application, said out the purpos | on its request, be provided promptly with all pertinent facts and tent and legal equivalents as may be known and accessible to ence, litigation, or proceeding relating thereto and will promptly we any and all papers, instruments or affidavits required to apply d invention and said Letters Patent and said equivalents thereof ses thereof. An attorney of record is authorized and requested by ment the filing date and serial number of said application when | |
| AND States | the <u>ASSIGNOR(S)</u> requests the Comr and any reissue or extension thereof to | missioner of Pa the ASSIGNE | tents and Trademarks to issue said Letters Patent of the United E, Lawrence Livermore National Security, LLC. | |
| execu | ted this | : | Signature of Inventor(s) | |
| 12 | 11 /2008 Date | <u> </u> | Acid Reginald Reginal Rem | |

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| executed | this |
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| - | 4112.7 |

12/2/08

Date

Signature of Inventor(s)

9. KG

Ian Kennedy

PATENT REEL: 031582 FRAME: 0571

RECORDED: 11/12/2013