

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT												
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT												
<b>CONVEYING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>George James Caporaso</td> <td>06/07/2010</td> </tr> <tr> <td>Yu-Jiuan Chen</td> <td>06/07/2010</td> </tr> <tr> <td>Scott Nelson</td> <td>06/07/2010</td> </tr> <tr> <td>Jim Sullivan</td> <td>06/07/2010</td> </tr> <tr> <td>Steven A. Hawkins</td> <td>06/07/2010</td> </tr> </tbody> </table>		Name	Execution Date	George James Caporaso	06/07/2010	Yu-Jiuan Chen	06/07/2010	Scott Nelson	06/07/2010	Jim Sullivan	06/07/2010	Steven A. Hawkins	06/07/2010
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<b>RECEIVING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"><b>Name:</b></td> <td>Lawrence Livermore National Security, LLC</td> </tr> <tr> <td><b>Street Address:</b></td> <td>2300 First Street, Suite 204</td> </tr> <tr> <td><b>City:</b></td> <td>Livermore</td> </tr> <tr> <td><b>State/Country:</b></td> <td>CALIFORNIA</td> </tr> <tr> <td><b>Postal Code:</b></td> <td>94550</td> </tr> </table>		<b>Name:</b>	Lawrence Livermore National Security, LLC	<b>Street Address:</b>	2300 First Street, Suite 204	<b>City:</b>	Livermore	<b>State/Country:</b>	CALIFORNIA	<b>Postal Code:</b>	94550		
<b>Name:</b>	Lawrence Livermore National Security, LLC												
<b>Street Address:</b>	2300 First Street, Suite 204												
<b>City:</b>	Livermore												
<b>State/Country:</b>	CALIFORNIA												
<b>Postal Code:</b>	94550												
<b>PROPERTY NUMBERS Total: 1</b>													
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<b>CORRESPONDENCE DATA</b>													
<p>Fax Number: (925)423-2231</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 925 422-7272</p> <p>Email: clinkenbeard3@llnl.gov</p> <p>Correspondent Name: LLNS</p> <p>Address Line 1: 7000 East Avenue</p> <p>Address Line 2: P.O. Box 808, L-703</p> <p>Address Line 4: Livermore, CALIFORNIA 94550</p>													
<b>ATTORNEY DOCKET NUMBER:</b>	IL-12083												
<b>NAME OF SUBMITTER:</b>	Mark Lough												

CH \$40.00 12761607

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**PATENT**  
**REEL: 024735 FRAME: 0761**

Total Attachments: 3

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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)**

1. George James Caporaso; 2. Yu-Jiuan Chen; 3. Scott Nelson;  
4. Jim Sullivan; 5. Steven A. Hawkings

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

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 1.-5. June 7, 2010

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

**2. Name and address of receiving party(ies)**

Name: Lawrence Livermore National Security, LLC

Internal Address: \_\_\_\_\_

Street Address: 2300 First Street, Suite 204

City: Livermore

State: California

Country: US Zip: 94550

Additional name(s) & address(es) attached? ☐ Yes ☒ No

**4. Application or patent number(s):**

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

12/761607

B. Patent No.(s)

NA

Additional numbers attached? ☐ Yes ☒ No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: LLNL

Internal Address: P.O. Box 808, L-703

Street Address: 7000 East Avenue

City: Livermore

State: California Zip: 94550

Phone Number: 925 422-7272

Fax Number: \_\_\_\_\_

Email Address: clinkenbeard3@llnl.gov

**6. Total number of applications and patents involved: 1**

**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 120695

Authorized User Name Linda Clinkenbeard

**9. Signature:**

/Mark Lough /  
Signature

July 23, 2010  
Date

Mark Lough  
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

3

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

**PATENT  
REEL: 024735 FRAME: 0763**

## ASSIGNMENT

LLNL Case No.: IL-12083

For good and valuable consideration the receipt of which is hereby acknowledged ASSIGNOR(s)

1. <u>George James Caporaso</u>	2. <u>Yu-Jiuan Chen</u>
3. <u>Scott Nelson</u>	4. <u>Jim Sullivan</u>
5. <u>Steven A. Hawkins</u>	6. <u>//</u>
7. <u>//</u>	8. <u>//</u>
9. <u>//</u>	10. <u>//</u>

hereby sells, assigns and transfers to ASSIGNEE, Lawrence Livermore National Security, LLC, a Delaware Corporation, having its administrative offices located at 1658 Holmes Street, Sunset Building Plaza C, Livermore, California 94551-9234, 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:

### VIRTUAL GAP DIELECTRIC WALL ACCELERATOR

and which is found in

- ☒ U.S. patent application executed on \_\_\_\_\_, entitled as above and listing the above named persons as inventors
- ☒ U.S. patent application serial no. 12/761,607, filed on April 16, 2010
- ☐ U. S. patent no. \_\_\_\_\_, issued \_\_\_\_\_

and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, continuation-in-part, extension or substitute thereof, and any reissue, reexamination or extension of said Letters Patent and all rights under all International Conventions for the Protection of Industrial Property;

ASSIGNOR(S) hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR(S) further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation, or proceeding relating thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof. An attorney of record is authorized and requested by the execution of this assignment to insert into this assignment the filing date and serial number of said application when officially known.

AND the ASSIGNOR(S) requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States and any reissue or extension thereof to the ASSIGNEE, Lawrence Livermore National Security, LLC.

executed this

6/7/10  
Date

Signature of Inventor(s)

  
George James Caporaso

executed this

June 7, 2010  
Date

Signature of Inventor(s)

Yu-Julian Chen  
Yu-Julian Chen

executed this

JUNE 7, 2010  
Date

Signature of Inventor(s)

Scott Nelson  
Scott Nelson

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June 7, 2010  
Date

Signature of Inventor(s)

Jim Sullivan  
Jim Sullivan

executed this

June 7, 2010  
Date

Signature of Inventor(s)

Steven A. Hawkins  
Steven A. Hawkins

- End of Document -  
IL-12083