

PATENT ASSIGNMENT

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------------|----------------|
| Jane Elizabeth Nordholt | 12/14/2010 |
| Richard John Hughes | 12/14/2010 |
| Raymond Thorson Newell | 12/14/2010 |
| Charles Glen Peterson | 12/15/2010 |
| Danna Rosenberg | 12/17/2010 |
| Kevin Peter McCabe | 12/14/2010 |
| Kush T. Tyagi | 12/20/2010 |
| Nicholas Dallmann | 12/14/2010 |

RECEIVING PARTY DATA

| | |
|-------------------|-----------------------------------|
| Name: | Los Alamos National Security, LLC |
| Street Address: | Los Alamos National Laboratory |
| Internal Address: | LC/IP |
| City: | Los Alamos |
| State/Country: | NEW MEXICO |
| Postal Code: | 87545 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 12895720 |

CORRESPONDENCE DATA

Fax Number: (503)595-5301
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
 Phone: 503 595 5300
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 Correspondent Name: Kyle B. Rinehart, Klarquist Sparkman LLP
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CH \$40.00 12895720

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ATTORNEY DOCKET NUMBER:

8472-84960-01

NAME OF SUBMITTER:

Kyle B. Rinehart

Total Attachments: 6

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ASSIGNMENT

DOE S-118,973

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

1. Jane Elizabeth Nordholt 2. Richard John Hughes 3. Raymond Thorson Newell
4. Charles Glen Peterson 5. Danna Rosenberg 6. Kevin Peter McCabe
7. Kush T. Tyagi 8. Nicholas Dallmann

hereby sells, assigns and transfers to ASSIGNEE, Los Alamos National Security, LLC, a Delaware Corporation, having its statewide administrative offices located at Los Alamos National Laboratory, LC/IP, Los Alamos, New Mexico 87545, and the successors, assigns and legal representatives 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 titled:

and which is found in

- (a) U.S. patent application executed on December 14, 2010 entitled as above and listing the above-named person(s) as inventor(s)
- (b) U.S. application Serial No. 12/895,720, filed on 09/30/2010.
- (c) U.S. Patent No. _____, issued _____.
- (d) U.S. provisional application filed on _____, entitled as above and listing the above-named person(s) as inventor(s)

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, The Regents of the University of California.

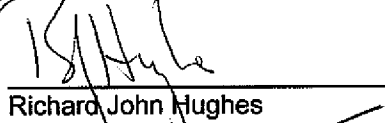
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Signature of Inventor(s)

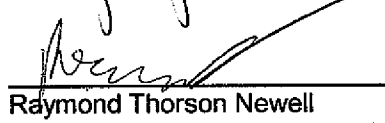
14 day of December, 2010


Jane Elizabeth Nordholt

14 day of December, 2010


Richard John Hughes

14 day of December, 2010


Raymond Thorson Newell

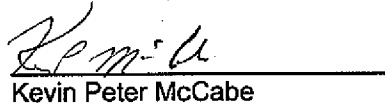
15 day of December, 2010


Charles Glen Peterson

_____ day of _____, 2010

Danna Rosenberg

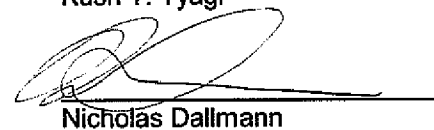
14 day of December, 2010


Kevin Peter McCabe

_____ day of _____, 2010

Kush T. Tyagi

14 day of December, 2010


Nicholas Dallmann

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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;

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executed this

Signature of Inventor(s)

_____ day of _____, 2010

Jane Elizabeth Nordholt

_____ day of _____, 2010

Richard John Hughes

_____ day of _____, 2010

Raymond Thorson Newell

_____ day of _____, 2010

Charles Glen Peterson

17ⁿ day of December, 2010



Danna Rosenberg

_____ day of _____, 2010

Kevin Peter McCabe

_____ day of _____, 2010

Kush T. Tyagi

_____ day of _____, 2010

Nicholas Dallmann

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Signature of Inventor(s)

_____ day of _____, 2010

Jane Elizabeth Nordholt

_____ day of _____, 2010

Richard John Hughes

_____ day of _____, 2010

Raymond Thorson Newell

_____ day of _____, 2010

Charles Glen Peterson

_____ day of _____, 2010

Danna Rosenberg

_____ day of _____, 2010

Kevin Peter McCabe

20 day of DECEMBER, 2010



Kush T. Tyagi

_____ day of _____, 2010

Nicholas Dalimann