

PATENT ASSIGNMENT

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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>Yu Seung Kim</td> <td>11/03/2010</td> </tr> <tr> <td>Dae Sik Kim</td> <td>11/03/2010</td> </tr> <tr> <td>Kwan-Soo Lee</td> <td>11/03/2010</td> </tr> </tbody> </table>		Name	Execution Date	Yu Seung Kim	11/03/2010	Dae Sik Kim	11/03/2010	Kwan-Soo Lee	11/03/2010
Name	Execution Date								
Yu Seung Kim	11/03/2010								
Dae Sik Kim	11/03/2010								
Kwan-Soo Lee	11/03/2010								
RECEIVING PARTY DATA									
Name:	LOS ALAMOS NATIONAL SECURITY, LLC								
Street Address:	Los Alamos National Laboratory								
Internal Address:	LC-IP, MSa187								
City:	Los Alamos								
State/Country:	NEW MEXICO								
Postal Code:	87545								
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>12878844</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12878844				
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Application Number:	12878844								
CORRESPONDENCE DATA									
Fax Number:	(505)665-4424								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
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Address Line 2:	LC-IP, MSa187								
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ATTORNEY DOCKET NUMBER:	S-118,987								
NAME OF SUBMITTER:	Juliet A. Jones								
Total Attachments: 2									

CH \$40.00 12878844

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**PATENT
 REEL: 025397 FRAME: 0986**

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ASSIGNMENT

DOE S-118,987

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

1. Yu Seung Kim 2. Dae Sik Kim 3. Kwan-Soo Lee

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 November 3, 2010 entitled as above and listing the above-named person(s) as inventor(s)
- (b) U.S. application Serial No. 12/878,844, filed on September 9, 2010.
- (c) U.S. Patent No. _____, issued _____.
- (d) U.S. provisional application filed on September 14, 2009, 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.


executed this

Signature of Inventor(s)

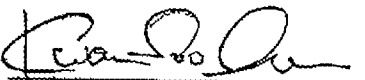
3 day of 11, 2010


Yu Seung Kim

3 day of 11, 2010


Dae Sik Kim

3 day of 11, 2010


Kwan-Soo Lee