

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Scott Kinkead</td> <td>01/26/2009</td> </tr> <tr> <td>Marcus O. Wigand</td> <td>01/19/2009</td> </tr> </tbody> </table>		Name	Execution Date	Scott Kinkead	01/26/2009	Marcus O. Wigand	01/19/2009
Name	Execution Date						
Scott Kinkead	01/26/2009						
Marcus O. Wigand	01/19/2009						
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							
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11675468</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11675468		
Property Type	Number						
Application Number:	11675468						
CORRESPONDENCE DATA							
Fax Number:	(202)628-8844						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	202-624-2500						
Email:	lkenney@crowell.com						
Correspondent Name:	Melissa M. Hayworth, Crowell & Moring LL						
Address Line 1:	1001 Pennsylvania Avenue, N.W.						
Address Line 2:	IP Dept						
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20004						
ATTORNEY DOCKET NUMBER:	103904.60005US						
NAME OF SUBMITTER:	Melissa M. Hayworth						

Total Attachments: 2
 source=60005USAssignmentKinkeadWigand#page1.tif

500763706

PATENT
REEL: 022157 FRAME: 0619

OP \$40.00 11675468

Attorney Docket No. 103904.60005US

ASSIGNMENT

DOE Contract DE-AC51-02NA25396

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

- 1. William Kirk HOLLIS
- 2. Craig TAYLOR
- 3. Scott KINKEAD
- 4. Marcus O. WIGAND

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:

KEROGEN EXTRACTION FROM SUBTERRANEAN OIL SHALE RESOURCES

and which is found in

- (a) U.S. patent application executed on _____, entitled as above and listing the above-named person(s) as inventor(s)
- (b) U.S. application Serial No. 11/675,468, filed on February 15, 2007.
- (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, Los Alamos National Security, LLC.

executed this _____ day of _____, _____

_____ day of _____, _____

26th day of January, 2009.

_____ day of _____, _____

Signature of Inventor(s)

Kirk HOLLIS

Craig TAYLOR

Scott Kinkead
Scott KINKEAD

Marcus O. WIGAND

ASSIGNMENT

DOE Contract DE-AC51-06NA25396

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

- 1. William Kirk HOLLIS
- 2. Craig TAYLOR
- 3. Scott KINKEAD
- 4. Marcus O. WIGAND

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:

KEROGEN EXTRACTION FROM SUBTERRANEAN OIL SHALE RESOURCES

and which is found in

- (a) U.S. patent application executed on _____, entitled as above and listing the above-named person(s) as inventor(s)
- (b) U.S. application Serial No. 11/675,468, filed on February 15, 2007
- (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, Los Alamos National Security, LLC.

executed this _____ day of _____, _____

_____ day of _____, _____

_____ day of _____, _____

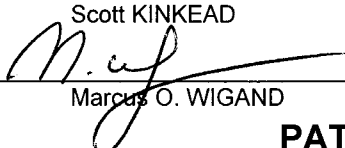
19 day of JANUARY, 2009

Signature of Inventor(s)

Kirk HOLLIS

Craig TAYLOR

Scott KINKEAD



Marcus O. WIGAND

PATENT