

10/31/2011

RECORDATION FORM COVER

103635530

To the Director of the US Patent and Trademark Office: Please record documents or the new address(es) below.

1. Name of conveying party(ies): **Richard G. Luthy**
Eun Ah Kim U.S. PTO
13/317555
10/21/2011

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

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

Name: **The Board of Trustees of the Leland Stanford Junior University**Street address: **1705 El Camino Real**City: **Palo Alto**State: **CA**Zip: **94306**Country: **USA**Additional name(s) and address(es) attached? ☐ Yes ☒ No

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

☒ Assignment☐ Joint Research Agreement☐ Security Agreement☐ Government Interest Assignment☐ Merger☐ Executive Order 9424m Confirmatory License☐ Change of Name☐ OtherExecution Date(s): 10/17/2011

4. Application or patent number(s):

A. Patent Application No.(s)

B. Patent No.(s)

C. Agent Ref No.(s)

S10-345/US☒ This document is being filed together with a new application.Additional numbers attached? ☐ Yes ☒ No

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

Name: **Lumen Patent Firm**Street address: **350 Cambridge Ave., Suite 100**City: **Palo Alto**State: **CA**Zip: **94306**Country: **USA**Phone No.: **650-424-0100**Fax No.: **650-424-0141**Email: **admin@lumen.com**6. Total number of applications and patents involved: **1**7. Total fee (37 CFR 1.21(h) & 3.41): \$ **40**☒ Authorized to be charged by credit card

8. Payment Information:

a. Credit Card Last 4 Numbers: **5900**Credit Card Expiration Date: **10/2012**

9. Signature:

Signature / **James E. Parris / Reg.No. 51,135**

Printed Name

James E. Parris

Date

10/21/11Total number of pages including cover sheet, attachments and documents: **3**

10/25/2011 JAB001 13317555
PATENT
REEL: 027280 FRAME: 0566 nd

ASSIGNMENT OF INVENTION AND PATENT

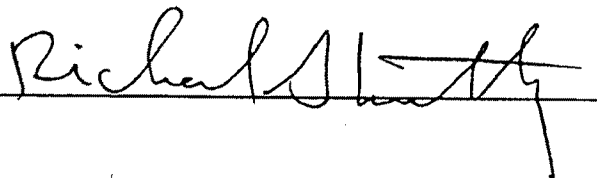
This Assignment of Invention and Patent (the "Assignment") is made and effective as of **October 17, 2011**, by and between **Richard G. Luthy**, an individual residing in **Stanford, CA, USA**, (the "Assignor") and **The Board of Trustees of the Leland Stanford Junior University**, an entity whose address is **1705 El Camino Real, Palo Alto, CA 94306-1106, USA** (the "Assignee").

- 1) For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, Assignor hereby sells, assigns and transfers to Assignee and the successors and assigns of Assignee, its entire right, title and interest in and to (i) the invention or inventions described in US provisional patent application **61/455994** filed **10/29/2010** entitled **Polysulfide-rubber-coated activated carbon (PSR-AC) as a multi-sorbent for mercury and polychlorinated biphenyls (PCBs)** (the "Application") naming Assignor as an inventor, (ii) any and all patent applications (whether provisional or non-provisional) relating to said invention(s), including all continuations, continuations-in-part, divisions, substitutes, reissues or renewals thereof, in any and all countries, (iii) any and all patents relating to such invention(s) in any and all countries that may be granted on any such application(s), including all reissues or extensions of any such patents and (iv) any and all domestic and foreign rights of priority resulting from the filing of the Application.
- 2) Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into by Assignor which would conflict with this Assignment. Assignor represents and warrants to Assignee that at the time of the execution and delivery of this Assignment, Assignor solely owns (or jointly owns, if the invention(s) were jointly made) the entire right, title and interest in and to said invention(s).
- 3) Assignor agrees that Assignee may apply for foreign patents relating to said invention(s) and irrevocably authorizes Assignee and grants Assignee the right to do so.
- 4) Assignor agrees, on request and without further consideration, but at the expense of Assignee, to sign all lawful papers, make all rightful oaths, and give any required testimony in any legal proceedings relating to said invention(s), and to generally aid Assignee, or its successors or assigns to obtain and enforce patent protection for said invention(s) in any and all countries.
- 5) Assignor authorizes and requests any official whose duty it is to issue patents to issue any patent on said invention(s) to Assignee, as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made.
- 6) This Assignment shall bind and inure to the benefit of the successors, assigns and personal representatives of the respective parties.

Assignor has executed this Assignment as of the Effective Date of **October 17, 2011**.

Assignor: **Richard G. Luthy**

Signature: _____



Lumen Ref.: S10-345/PROV
PID: 15869 IID: 1613

ASSIGNMENT OF INVENTION AND PATENT

This Assignment of Invention and Patent (the "Assignment") is made and effective as of **October 17, 2011**, by and between **Eun Ah Kim**, an individual residing in **Menlo Park, CA, USA**, (the "Assignor") and **The Board of Trustees of the Leland Stanford Junior University**, an entity whose address is **1705 El Camino Real, Palo Alto, CA 94306-1106, USA** (the "Assignee").

1) For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, Assignor hereby sells, assigns and transfers to Assignee and the successors and assigns of Assignee, its entire right, title and interest in and to (i) the invention or inventions described in US provisional patent application **61/455994** filed **10/29/2010** entitled **Polysulfide-rubber-coated activated carbon (PSR-AC) as a multi-sorbent for mercury and polychlorinated biphenyls (PCBs)** (the "Application") naming Assignor as an inventor, (ii) any and all patent applications (whether provisional or non-provisional) relating to said invention(s), including all continuations, continuations-in-part, divisions, substitutes, reissues or renewals thereof, in any and all countries, (iii) any and all patents relating to such invention(s) in any and all countries that may be granted on any such application(s), including all reissues or extensions of any such patents and (iv) any and all domestic and foreign rights of priority resulting from the filing of the Application.

2) Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into by Assignor which would conflict with this Assignment. Assignor represents and warrants to Assignee that at the time of the execution and delivery of this Assignment, Assignor solely owns (or jointly owns, if the invention(s) were jointly made) the entire right, title and interest in and to said invention(s).

3) Assignor agrees that Assignee may apply for foreign patents relating to said invention(s) and irrevocably authorizes Assignee and grants Assignee the right to do so.

4) Assignor agrees, on request and without further consideration, but at the expense of Assignee, to sign all lawful papers, make all rightful oaths, and give any required testimony in any legal proceedings relating to said invention(s), and to generally aid Assignee, or its successors or assigns to obtain and enforce patent protection for said invention(s) in any and all countries.

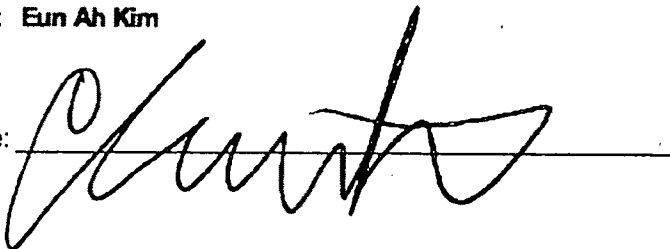
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6) This Assignment shall bind and inure to the benefit of the successors, assigns and personal representatives of the respective parties.

Assignor has executed this Assignment as of the Effective Date of **October 17, 2011**.

Assignor: **Eun Ah Kim**

Signature: _____



Lumen Ref.: S10-345/PROV
PID: 15869 IID: 4290