502333586 05/02/2013

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Peter C. Rieke	02/25/2013
Silas A. Towne	03/12/2013
Greg W. Coffey	02/19/2012
Aaron M. Appel	02/20/2013

RECEIVING PARTY DATA

Name:	Battelle Memorial Institute
Street Address:	902 Battelle Boulevard
Internal Address:	P.O. Box 999
City:	Richland
State/Country:	WASHINGTON
Postal Code:	99352

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	13748463
PCT Number:	US2013022794

CORRESPONDENCE DATA

Fax Number: 5098383424

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Phone: 509-624-4276

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Correspondent Name: Robert C. Hyta Address Line 1: 601 W. 1st Avenue

Address Line 2: **Suite 1300**

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Address Line 4: Spokane, WASHINGTON 99201

ATTORNEY DOCKET NUMBER: BA4-0512; BA4-0513 **PATENT**

REEL: 030339 FRAME: 0498

NAME OF SUBMITTER:	Robert C. Hyta
Signature:	/Robert C. Hyta/
Date:	05/02/2013
Total Attachments: 8 source=Executed_Assignment#page1.tif source=Executed_Assignment#page2.tif source=Executed_Assignment#page3.tif source=Executed_Assignment#page4.tif source=Executed_Assignment#page5.tif source=Executed_Assignment#page6.tif source=Executed_Assignment#page7.tif source=Executed_Assignment#page8.tif	

PATENT REEL: 030339 FRAME: 0499

ASSIGNMENT

PARTIES TO THE ASSIGNMENT:

INVENTORS:

Peter C. Rieke

Silas A. Towne

Greg W. Coffey

Aaron M. Appel

<u>ASSIGNEE</u>:

Battelle Memorial Institute 902 Battelle Boulevard P.O. Box 999 Richland, WA 99352 United States

BACKGROUND OF THIS ASSIGNMENT:

Inventors have conceived certain new and useful inventions disclosed in a United States patent application titled "Separation and/or Sequestration Apparatus and Methods", United States patent application Serial No. 13/748,463 filed January 23, 2013, and a PCT patent application titled "Separation and/or Sequestration Apparatus and Methods", PCT Serial No. PCT/US2013/022794 filed January 23, 2013, both of which claim priority to

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PATENT REEL: 030339 FRAME: 0500 United States Provisional patent application Serial No. 61/589,704 filed January 23, 2012.

Battelle Memorial Institute (hereinafter referred to as "ASSIGNEE") desires to acquire the entire right, title and interest in said inventions and with respect to any Letters Patent that may be granted with respect to the inventions in both the United States and in all foreign countries.

THE PARTIES AGREE AS FOLLOWS:

In consideration of good and valuable consideration, the receipt, sufficiency and adequacy of which is hereby acknowledged, INVENTORS have sold, assigned and transferred, and by these present do hereby sell, assign and transfer to ASSIGNEE the entire right, title and interest in the above-identified inventions and application and to any reissues, renewals, divisions or continuations of the application thereof, and hereby authorizes the Commissioner of Patents and Trademarks to issue such Letters Patent to ASSIGNEE for the sole use of ASSIGNEE, its successors or assigns.

INVENTORS further agree to execute, at the request and expense of ASSIGNEE, such other formal documents as may be required to fully convey the interest transferred herein and will similarly execute any patent application papers (foreign or domestic) required for the filing of any divisional, continuation, renewal or reissue of the patent application or resulting Letters Patent; and will generally do everything necessary or

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desirable to obtain and enforce proper protection for the inventions assigned hereby.

INVENTORS further assign to ASSIGNEE the whole right, title and interest in the inventions disclosed in the application throughout all countries foreign to the United States. ASSIGNEE is hereby authorized to apply for patents relating to the inventions in its own name in countries where such procedure is proper; to claim the benefit of the International Convention; to file and prosecute International Applications relating to the inventions under the Patent Cooperation Treaty; and to file and prosecute applications relating to the inventions under the European Patent Convention. INVENTORS agree to execute applications relating to the inventions in those countries and under those conventions where it is necessary that the same be executed by the inventor, and to execute assignments of such applications and the resulting Letters Patent to ASSIGNEE as well as all other necessary papers in relation to such applications and Letters Patent. INVENTORS hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country as proof of the right of ASSIGNEE to apply for patent and other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

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PATENT REEL: 030339 FRAME: 0502 To be binding on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signed at Richland [city]	When, on Feb. 25 th , 20 <u>13</u> . [state] Peter C. Rieke
	Peter C. Rieke
State of Washington County of Benton)) ss.
County of <u>Deuton</u>)
On February 25 personally appeared Reter C. Rieke described in the foregoing assignment of the execution to be voluntary and	2
SEAL	Notary for the State of Washington residing at Dichland [City] Commission Expires: 127[16
Signed at	, on, 20
[0.47]	[m.m.s]
	Silas A. Towne
State of)) ss.)
Onpersonally appeared Silas A. Town	_, 20, before me, a Notary Public, ne, who is known to me to be the person

To be binding on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signed at[city]	, on, 20 [state]
	Peter C. Rieke
State of)) ss.)
personally appeared Peter C. Riel described in the foregoing assignr	, 20, before me, a Notary Public, ce, who is known to me to be the person ment, who executed it and acknowledged d for the purposes set forth therein.
	Notary for the State of residing at [City] Commission Expires:
SEAL	
Signed at <u>Bend</u> [city]	OR, on March 12, 2013 [state] Silas A. Towne Silas A. Towne
State of <u>Oregon</u> County of <u>Deschutes</u>)) ss.)
on March 12	, $20 \frac{13}{3}$, before me, a Notary Public, ne, who is known to me to be the person

described in the foregoing assignment, who executed it and acknowledged such execution to be voluntary and for the purposes set forth therein.

OFFICIAL SEAL PATRICIA LOU NELSON NOTARY PUBLIC-OREGON COMMISSION NO. 439543 Y COMMISSION NO. 439543 Y COMMISSION NO. 439543	Notary for the State of OREGON residing at Bend [City] Commission Expires: 5/25/2013
SEAL	
Signed at	, on, 20
[city]	[state]

Ğı	eg W. Coffey
State of	ss.
On	t, who executed it and acknowledged
	Notary for the State of residing at
	[City]
	Commission Expires:

SEAL

described in the foregoing assignment, who executed it and acknowledged such execution to be voluntary and for the purposes set forth therein.

	Notary for the State of
	residing at[City]
	Commission Expires:
SEAL	
	NA , on <u>February 19</u> , 20 <u>12</u> tate] My g W. Coffey
State of Washington) County of Benton)	S.
On February 19, 20 personally appeared Greg W. Coffey, we described in the foregoing assignment, such execution to be voluntary and for	who executed it and acknowledged
SEAL WASHINGTON	Notary for the State of Weshington residing at Dichland [City], Commission Expires: 1/29/16

Signed at <u>Richland</u> [city]	WA , on February 20, 2013. [state]
	Aaron M. Appel
State of Washington County of Bonton) ss.
personally appeared Aaron M. App described in the foregoing assignment	_, 20 <u>। ३</u> _, before me, a Notary Public, pel, who is known to me to be the person nent, who executed it and acknowledged If for the purposes set forth therein.
SEAL SEAL	Notary for the State of Washington residing at Pichland [City] Commission Expires: 1/29(16

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RECORDED: 05/02/2013