

2/15/06

02-22-2006

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U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Allan F. Pardini, Kevin L. Gervais, Royce A. Mathews, Ronald L. Hockey. Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies) Name: Battelle Memorial Institute Internal Address: (K1-53) Street Address: P.O. Box 999 City: Richland State: WA Zip: 99352 Additional name(s) & address(es) attached? Yes No

113256 U.S. PTO 11/355608



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3. Nature of conveyance: Assignment Merger Security Agreement Change of Name Other Execution Date: 02/14/2006

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: 02/15/2006 A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: James D. Matheson Internal Address: K1-53 Street Address: P.O. Box 999 City: Richland State: WA Zip: 99352

6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41).....\$ 40.00 Enclosed Authorized to be charged to deposit account 8. Deposit account number: 02-1275

DO NOT USE THIS SPACE

9. Signature. James D. Matheson Name of Person Signing Signature Date 2/15/06

Total number of pages including cover sheet, attachments, and documents: 7

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

02/23/2006 DBYRNE 00000268 021275 11355608

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PATENT REEL: 017584 FRAME: 0622

PATENT

File No. 14936-E

A S S I G N M E N T

Allan F. Pardini
Kevin L. Gervais
Royce A. Mathews
Ronald L. Hockey

To

Battelle Memorial
Institute

WHEREAS, we, Allan F. Pardini of Kennewick, County of Benton, State of Washington; Kevin L. Gervais of Richland, County of Benton, State of Washington, Royce Mathews of Kennewick, County of Benton, State of Washington; and Ronald L. Hockey of Albuquerque, New Mexico, have made certain inventions in, **ARTICLE SEPARATION APPARATUS AND METHOD FOR UNIT OPERATIONS**, for which we are about to make application for Letters Patent of the United States; and

WHEREAS Battelle Memorial Institute, a corporation of Ohio, organized and existing under the laws of the State of Ohio, and having a place of business in the City of Richland, Washington, is desirous of acquiring an interest in the said invention and in any patent or patents to be obtained therefor;

NOW, THEREFORE, To All Whom It May Concern, be it known that, for and in consideration of the sum of One Dollar (\$1.00) each, and other good and valuable considerations, the receipt of which is hereby acknowledged, I have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto the said Battelle Memorial Institute, the entire right, title, and interest in and to the invention shown, described, or claimed therein, and the full and exclusive right and title to the said application, executed by me on the 15 day of February, 2006, preparatory to obtaining Letters Patent of the United States therefor; and in and to any extensions, reissues, divisions, or renewals thereof; and I do hereby

authorize and request the Commissioner of Patents or other proper Officer, to issue such Letters Patent, or any of them to the said Battelle Memorial Institute, as the assignee of my entire right, title, and interest in and to the same for the sole use and benefit of the said Battelle Memorial Institute, and its successors or assigns.

And I further covenant and agree that I will, at the request and expense of the said Battelle Memorial Institute, execute such other and further assurances of title as may be necessary or proper to fully convey the interest herein sought to be conveyed; that I will, at the request and expense of the said Battelle Memorial Institute, execute such application papers as may be desired by the said Battelle Memorial Institute, for the filing of any division or renewal of the application herein conveyed, or for reissues or extensions, or any Letters Patent that may be granted upon said application, and will execute such Supplemental Oaths and Preliminary Statements, or other papers as desired by the said Battelle Memorial Institute.

And I further assign unto the said Battelle Memorial Institute, the whole right, title, and interest to the invention disclosed in the application throughout all countries foreign to the United States, and do hereby authorize the said Battelle Memorial Institute to apply for patents therefor in its own name in countries where such procedure is proper and to claim the benefit of the International Convention and agree to execute applications of the said invention in the several countries where it is necessary that the same be executed by the inventors, and to execute assignments of such applications and the patents to be obtained therefor to the said Battelle Memorial Institute, the assignee herein, as well as all other necessary papers.

Executed at Richland, State of WA, this 13 day
of February, 2006.

Allan F. Pardini
Allan F. Pardini

STATE OF Washington)
) ss.
COUNTY OF Benton)

This 13 day of February, 2006, before me personally came the above-named Allan F. Pardini, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.



[SEAL]

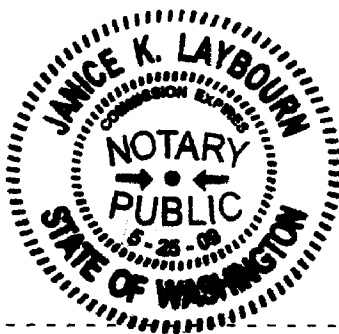
Janice K. Laybourn
Notary Public for the State of Washington
My commission expires: 5/25/2009

Executed at Richland, State of Washington, this 13 day
of Feb, 2006.

Kevin L. Gervais
Kevin L. Gervais

STATE OF Washington)
) ss.
COUNTY OF Benton)

This 13 day of February 2006, before me personally came the above-named Kevin L. Gervais, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.



[SEAL]

Janice K. Laybourn
Notary Public for the State of Washington
My commission expires: 5/25/2009

Executed at Richland, State of Wa, this 13 day
of Feb, 2006.

Royce A. Mathews
Royce A. Mathews

STATE OF Washington)
) ss.
COUNTY OF Benton)

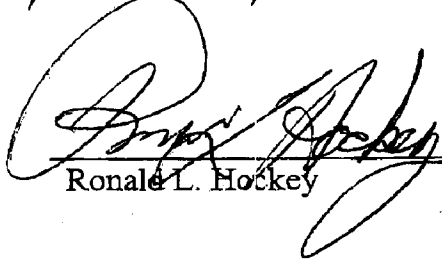
This 13 day of February, 2006, before me personally came the above-named Royce A. Mathews, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.



[SEAL]

Janice K. Laybourn
Notary Public for the State of Washington
My commission expires: 5/25/2009

Executed at Albuquerque, State of New Mexico, this 14 day
of Feb., 2006.



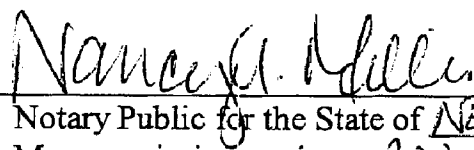
Ronald L. Hockey

NEW MEXICO
STATE OF ~~Washington~~ ^{NM})
BERNALILLO) ss.
COUNTY OF ~~Benton~~ ^{NM})

This 14 day of FEB, 2006, before me personally came the above-named Ronald L. Hockey, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.



OFFICIAL SEAL
NANCY A. MILLER
NOTARY PUBLIC-STATE OF NEW MEXICO
My commission expires: 04-06-2008



Notary Public for the State of NEW MEXICO
My commission expires: APRIL 06, 2006

[SEAL]