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| PATENT ASSIGNMENT COVER SHEET |
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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST DIVISION | 03/13/2017 |
| RECEIVING PARTY DATA | |
| Name: | U.S. DEPARTMENT OF ENERGY |
| Street Address: | 1000 INDEPENDENCE AVE., SW |
| City: | WASHINGTON |
| State/Country: | D.C. |
| Postal Code: | 20585 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15438529 |
| CORRESPONDENCE DATA | |
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| SIGNATURE: | /BRENDA K. BANKS/ |
| DATE SIGNED: | 03/15/2017 |
| Total Attachments: 1 | |
| source=30865-E Confirmatory License Filing Receipt 1#page1.tif | |

CONFIRMATORY LICENSE
(Nonprofit Organizations or Small Business Forms)

Title: "ACTIVE MAGNETIC REGENERATIVE LIQUIFIER USING
PROCESS GAS PRE-COOLING FROM BYPASS FLOW OF
HEAT TRANSFER FLUID"
Inventor(s): JD Holladay; KD Meinhardt; E Polikarpov; EC Thomsen; J Barclay; J
Cui
Serial No.: 15/438,529 File Date (U.S.): 02/21/2017
Contractor: Battelle Memorial Institute, PNWD DOE Case No.: S-141,147
Docket No.: 30865-E
DOE Contract No.: DE-AC05-76RL0 1830 Patent Right Clause No.: I-99

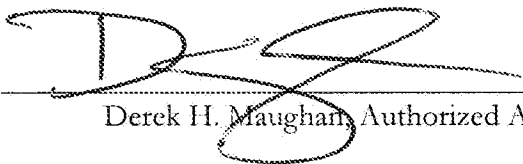
The Contractor, having the right to retain title to subject inventions as a result of Public Law 96-517, has reported the above-identified invention as a subject invention to DOE with its election to retain title thereto.

Accordingly, this document is confirmatory of the nonexclusive, nontransferable, irrevocable, paid-up license to practice or to have practiced for or on behalf of the United States. Required by the Public Law and the above-identified contract, in this invention and of all other rights acquired by the Government by the above-identified contract, in this invention and of all other rights clause. It is understood and agreed that this license does not preclude the Government from asserting rights under the provisions of said contract or of any other agreement between the Government and the Contractor, or from asserting any other rights of the Government with respect to the above-identified invention.

The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Signed this 13 day of March, 2017.

BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST DIVISION
(Contractor)

by: 
Derek H. Maughan, Authorized Agent

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