

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| STEPHEN DUNN | 05/27/2014 |
| RALPH LONGSWORTH | 05/27/2014 |
| JOHN BORCHERS | 05/27/2014 |
| RECEIVING PARTY DATA | |
| Name: | SUMITOMO (SHI) CRYOGENICS OF AMERICA INC. |
| Street Address: | 1833 VULTEE STREET |
| City: | ALLENTOWN |
| State/Country: | PENNSYLVANIA |
| Postal Code: | 18103 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 13106218 |
| CORRESPONDENCE DATA | |
| Fax Number: | (212)940-8986 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
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| ATTORNEY DOCKET NUMBER: | SHI 24.726(310010-00187) |
| NAME OF SUBMITTER: | SAMSON HELFGOTT |
| SIGNATURE: | /Samson Helfgott/ |
| DATE SIGNED: | 06/04/2014 |
| Total Attachments: 2 | |
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| source=SHI24726ASSIGNMENT#page2.tif | |

Serial No. 13/106,218

ASSIGNMENT

Docket No. SHI 24.726

WHEREAS, the below named inventor, ASSIGNOR, has made a certain new and useful invention in: GAS BALANCED CRYOGENIC EXPANSION ENGINE

for which

(check one) [] an application is being filed concurrently herewith,

[X] an application for a Patent of the United States was filed on May 12, 2011
and given Application Serial No. 13/106,218

and WHEREAS, Sumitomo (SHI) Cryogenics of America Inc.
having a place of business at 1833 Vultee Street, Allentown, PA 18103 ASSIGNEE
is desirous of obtaining the entire right, title and interest in, to and under the said invention and the said application.

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, the said ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventor's certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument; and

ASSIGNOR covenants and agrees that he has full right to convey the entire interest herein assigned, and has not executed, and will not execute, any agreement in conflict herewith; and

ASSIGNOR further covenants and agrees that he will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

Full name of first inventor Stephen DUNN
Inventor's Signature *Stephen D. Dunn* Date 27 May 14
Residence Allentown, PA Citizenship US
Post Office Address c/o Sumitomo (SHI) Cryogenics of America Inc.
1833 Vultee Street, Allentown, PA 18103

Full name of second inventor Ralph LONGSWORTH
Inventor's Signature *Ralph C Longsworth* Date 5/27/14
Residence Allentown, PA Citizenship US
Post Office Address c/o Sumitomo (SHI) Cryogenics of America Inc.
1833 Vultee Street, Allentown, PA 18103

Serial No. 13/106,218

Full name of third inventor John BORCHERS
Inventor's Signature *John B Borchers* Date 5/27/14
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1833 Vultee Street, Allentown, PA 18103