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| PATENT ASSIGNMENT COVER SHEET |
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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| ANDY SHURTLEFF | 07/25/2019 |
| MARK JOSEPH DOORE | 09/23/2019 |
| ANDREW SLAUGH | 07/24/2019 |
| RECEIVING PARTY DATA | |
| Name: | AIRGAS, INC. |
| Street Address: | 259 NORTH RADNOR-CHESTER ROAD |
| Internal Address: | SUITE 100 |
| City: | RADNOR |
| State/Country: | PENNSYLVANIA |
| Postal Code: | 19087-5283 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16886337 |
| CORRESPONDENCE DATA | |
| Fax Number: | (713)624-8950 |
| <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> | |
| Phone: | 713-624-8953 |
| Email: | NEVA.DARE-SC@AIRLIQUIDE.COM |
| Correspondent Name: | AIR LIQUIDE US LLC |
| Address Line 1: | 9811 KATY FREEWAY |
| Address Line 2: | SUITE 100 |
| Address Line 4: | HOUSTON, TEXAS 77024 |
| ATTORNEY DOCKET NUMBER: | 2019P00231 |
| NAME OF SUBMITTER: | NEVA DARE |
| SIGNATURE: | /Neva Dare/ |
| DATE SIGNED: | 06/13/2020 |
| Total Attachments: 3 | |
| source=2019P00231_US_Executed PRV Assignment - 3 inventors#page1.tif | |
| source=2019P00231_US_Executed PRV Assignment - 3 inventors#page2.tif | |

Assignment of Invention

WHEREAS WE, Andy SHURTLEFF, Mark Joseph DOORE, Andrew SLAUGH and James A. STEWART, have invented certain new and useful improvements documented in a patent application entitled, HEAT FLOW HYDROGEN CHLORIDE DELIVERY SYSTEM, for which a United States patent application was filed on May 30, 2019, having Application No. 62/854,444;

WHEREAS, Airgas, Inc. (hereinafter referred to as "ASSIGNEE") having a place of business at 259 North Radnor-Chester Road, Suite 100, Radnor, PA 19087-5283, U.S.A., desires to acquire from Andy SHURTLEFF, Mark Joseph DOORE, Andrew SLAUGH and James A. STEWART the entire right, title and interest WE have in and to said invention and in and to any Letters Patent that may be granted thereof in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, for valuable consideration, the receipt whereof is hereby acknowledged, WE, by these presents do sell, assign and transfer unto said ASSIGNEE, effective as of the first priority date, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries, including the right to claim priority of the above-mentioned patent application(s) in patent applications filed in or for any such foreign country, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all subsequent provisionals, non-provisionals, divisions, reissues, continuations, continuations-in-part, reexaminations, substitutions and renewals thereof.

WE hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said ASSIGNEE, its successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.

Further, WE agree that WE will communicate to said ASSIGNEE or its representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all non-provisional, divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grants authorized representatives of the above identified ASSIGNEE the power to insert on this assignment any further identification, **INCLUDING ANY SUBSEQUENT DATE OF APPLICATION FILING AND THE APPLICATION SERIAL NUMBER**, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: 7/25/2019



Andy SHURTLEFF (Inventor)

Date: _____

Mark Joseph DOORE (Inventor)

Date: _____

Andrew SLAUGH (Inventor)

Date: _____

James A. STEWART (Inventor)

Assignment of Invention

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Date: _____

Andy SHURTLEFF (Inventor)

Date: 9/23/2019

Mark Joseph Doore
Mark Joseph DOORE (Inventor)

Date: _____

Andrew SLAUGH (Inventor)

Date: _____

James A. STEWART (Inventor)

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Date: _____

Andy SHURTLEFF (Inventor)

Date: _____

Mark Joseph DOORE (Inventor)

Date: 7/24/19



Andrew SLAUGH (Inventor)

Date: _____

James A. STEWART (Inventor)