

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| MEGHAN E SWANSON | 07/14/2019 |
| DANIEL SANTORO | 07/23/2019 |
| MICHAEL ALVIN BROWN | 07/26/2019 |
| MARK FLORI ZANELLA SR | 08/08/2019 |
| CHRISTOPHER S DETKA | 07/23/2019 |
| RECEIVING PARTY DATA | |
| Name: | MSA TECHNOLOGY, LLC |
| Street Address: | 1000 CRANBERRY WOODS DRIVE |
| City: | CRANBERRY TOWNSHIP |
| State/Country: | PENNSYLVANIA |
| Postal Code: | 16066 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16437487 |
| CORRESPONDENCE DATA | |
| Fax Number: | (412)254-8088 |
| <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: | 4122532610 |
| Email: | hbartony@bartlaw.com |
| Correspondent Name: | HENRY E. BARTONY, JR. |
| Address Line 1: | BARTONY & ASSOCIATES LLC |
| Address Line 2: | P.O. BOX 910 |
| Address Line 4: | BUTLER, PENNSYLVANIA 16003-0910 |
| ATTORNEY DOCKET NUMBER: | 18-012 |
| NAME OF SUBMITTER: | HENRY E. BARTONY JR. |
| SIGNATURE: | /Henry E. Bartony, Jr., Reg. No. 34,772/ |
| DATE SIGNED: | 09/25/2019 |
| Total Attachments: 2 | |

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ASSIGNMENT

WHEREAS, **MEGHAN E. SWANSON**, a citizen and resident of the United States of America, whose address is 129 Radcliff Drive, Pittsburgh, Pennsylvania 15237, United States of America, **DANIEL SANTORO**, a citizen and resident of the United States of America, whose address is 7105 Penn Avenue, Apartment 22, Pittsburgh, Pennsylvania 15208 United States of America, **MICHAEL ALVIN BROWN**, a citizen and resident of the United States of America, whose address is 142 Village Drive, Cranberry Township, Pennsylvania 16066 United States of America, **MARK FLORI ZANELLA, SR.**, a citizen and resident of the United States of America, whose address is 302 Stein Road, Chicora, Pennsylvania 16025, **CHRISTOPHER S. DETKA**, a citizen and resident of the United States of America, whose address is 330 Dewey Avenue, Pittsburgh, Pennsylvania 15218 United States of America (hereinafter referred to as ASSIGNORS), has invented and owns a certain invention entitled

GAS SENSOR WITH SEPARATE CONTAMINANT DETECTION ELEMENT

which is described in a U.S. non-Provisional Patent Application patent application filed on June 11, 2019 under application Serial No. 16/437,487, and

WHEREAS, **MSA TECHNOLOGY, LLC**, a corporation organized and existing under the laws of the State of Pennsylvania and having a place of business at 1000 Cranberry Woods Drive, Cranberry Township, Pennsylvania 16066 (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries

This Assignment of Invention is effective as of June 11, 2019.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that in consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNORS hereby sell, assign and transfer to ASSIGNEE the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in all foreign countries, said application for Letters Patent, and any and all issued Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, divisional, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted

ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States to ASSIGNEE

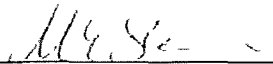
ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale, and

ASSIGNORS further covenant that when requested, without charge to, but at the expense of ASSIGNEE, that ASSIGNORS will, 1) promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention(s), said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof, 2) execute, for all countries, all divisions, reissues, reexaminations, continuations, renewals, extensions and all other patent applications on any and all of said invention(s); 3) communicate all facts known to ASSIGNORS relating to said invention(s), said application, said Letters Patent and legal equivalents in foreign countries and the history thereof, 4) testify in all legal proceedings; and 5) generally do everything possible which Assignee, its successors, assigns and representatives shall consider desirable for aiding in securing, maintaining and/or enforcing ASSIGNEE'S rights and patent protection in said invention(s), and for vesting title therein in ASSIGNEE, its successors, assigns and legal representatives.


ASSIGNORS further agree that ASSIGNEE shall have and to hold the interests assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, reexaminations, continuations, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment not been made.

IN WITNESS WHEREOF, I / WE have hereunto set hand and seal on dates given below

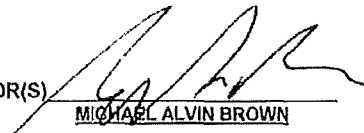
Date: 7/24/19

Signature of ASSIGNOR(S) 
MEGHAN E. SWANSON

Date: 23 July 2019

Signature of ASSIGNOR(S) 
DANIEL SANTORO

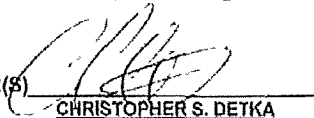
Date: 7/26/2019

Signature of ASSIGNOR(S) 
MICHAEL ALVIN BROWN

Date: 8-Aug-2019

Signature of ASSIGNOR(S) 
MARK FLORI ZANELLO, SR.

Date: 23 July 2019

Signature of ASSIGNOR(S) 
CHRISTOPHER S. DETKA

No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, the notarization or legalization will be *prima facie* evidence of execution, 35 USC 261.