

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6361900

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| ROBERT SMITH | 10/15/2018 |
| RECEIVING PARTY DATA | |
| Name: | JOY GLOBAL UNDERGROUND MINING LL |
| Street Address: | 40 PENNWOOD PLACE |
| Internal Address: | SUITE 100 |
| City: | WARRENDALE |
| State/Country: | PENNSYLVANIA |
| Postal Code: | 15086 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 17076618 |
| CORRESPONDENCE DATA | |
| Fax Number: | (414)277-0656 |
| <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: | 051077-9689-US04 |
| NAME OF SUBMITTER: | KEVIN P RIZZUTO |
| SIGNATURE: | /kpr/ |
| DATE SIGNED: | 10/21/2020 |
| Total Attachments: 2 | |
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| source=051077-9689-US04 Executed Assignment - as filed#page2.tif | |

ASSIGNMENT

Pursuant to my obligation to Joy Global Underground Mining LLC (hereinafter referred to as "Assignee"), a Delaware corporation having its principal place of business at:

40 Pennwood Place, Suite 100
Warrendale, Pennsylvania 15086

and for other valuable and sufficient consideration, receipt whereof is hereby acknowledged, I:

Robert Smith
Flat #2 South Grove, 69 Abbey Road
Malvern WR14 3HL
United Kingdom

confirm my obligation to and hereby sell, assign and convey, unto Assignee, its successors and assigns, my entire right, title and interest -

(1) in and to inventions described in a patent application titled "SENSOR SYSTEMS AND METHODS FOR DETECTING CONVEYOR TENSION IN A MINING SYSTEM" for which I filed United States Patent Application No. 16/161,607, (Atty. File No. 051077-9689-US02) (hereinafter the "U.S. utility patent application") which application claims the benefit of United States Provisional Patent Application No. 62/573,552, filed October 17, 2017 (hereinafter the "U.S. provisional patent application") (Atty. File No. 051077-9689-US01);

(2) in and to the U.S. utility patent application, and the U.S. provisional patent application, in and to all other patent applications (including divisional, continuation, continuation-in-part, 35 U.S.C. §111(b) provisional, 35 U.S.C. §111(a), and reissue applications) based upon said inventions, and in and to the patent or patents to be granted thereon, to the full end of the term or terms for which said patent or patents may be granted;

(3) in and to all patent applications on said invention now or hereafter filed in countries foreign to the United States of America, and in and to any and all patents granted on said applications to the full end of the terms for which said patents may be granted; and

(4) under the International Convention in respect to the U.S. utility patent application and the U.S. provisional patent application, and agree that any patent applications of any foreign countries which may be filed shall be filed in the name of my Assignee with a claim to priority based on the U.S. utility patent application and the U.S. provisional patent application.

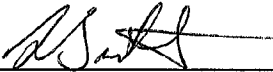
I hereby authorize the assignee or attorney of record to insert in the appropriate place in this document the application number of my application after execution of this Assignment. I hereby agree that I will, upon demand of Assignee, its successors or assigns, and without further consideration to me, execute any and all papers that may be necessary, or deemed by

Assignee, its successors or assigns, to be necessary, to a complete fulfillment of the intent and purposes of this Assignment, it being understood that any expense incident to the execution of such papers shall be paid by Assignee, its successors and assigns, and not by me.

The Commissioner of Patents and Trademarks of the United States is hereby authorized and requested to issue said patent or patents to Assignee.

15 October 2018

Date



Robert Smith