

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT6023007

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
EDWARD F. NIEDERRITER	02/24/2020
JEFFREY A. LEY	02/24/2020
RECEIVING PARTY DATA	
Name:	JOY GLOBAL UNDERGROUND MINING LLC
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:	16795184
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:	051077-9763-US01
NAME OF SUBMITTER:	LAUREN N. MCCOMIS
SIGNATURE:	/lnm/
DATE SIGNED:	03/19/2020
Total Attachments: 2	
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ASSIGNMENT

Pursuant to our 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,
we:

Edward F. Niederriter
239 Dempseytown Road
Fryburg, PA 16326

Jeffrey A. Ley
187 Whippoorwill Road
Cranberry, PA 16319

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

(1) in and to inventions described in a patent application titled "HIGH STRESS IMPACT DETECTION FOR A LONGWALL SHEARER" for which we filed United States Patent Application No. 16/795,184, (Atty. File No. 051077-9763-US01) (hereinafter the "U.S. utility patent application");

(2) in and to the U.S. utility 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;

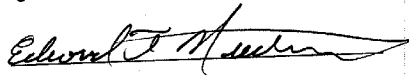
(3) in and to all patent applications on said invention now or hereafter filed in countries foreign to the United States of America, and in and to any and all patents granted on said applications to the full end of the terms for which said patents may be granted; and

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

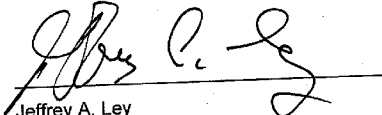
We hereby agree that we will, upon demand of Assignee, its successors or assigns, and without further consideration to us, execute any and all papers that may be necessary, or deemed by Assignee, its successors or assigns, to be necessary, to a complete fulfillment of the

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

FEB 24, 2020
Date


Edward F. Niederriter

FEB 24, 2020
Date


Jeffrey A. Ley