

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT7084290

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PETER HANNA	04/16/2019
CALLUM TYLER	04/16/2019
BRAD NEILSON	05/02/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	JOY GLOBAL UNDERGROUND MINING LLC
<b>Street Address:</b>	40 PENNWOOD PLACE
<b>Internal Address:</b>	SUITE 100
<b>City:</b>	WARRENDALE
<b>State/Country:</b>	PENNSYLVANIA
<b>Postal Code:</b>	15086
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17556707
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(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>	
<b>Phone:</b>	4142716560
<b>Email:</b>	mkeipdocket@michaelbest.com
<b>Correspondent Name:</b>	MICHAEL BEST & FRIEDRICH LLP (MKE)
<b>Address Line 1:</b>	790 N WATER ST
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<b>Address Line 4:</b>	MILWAUKEE, WISCONSIN 53202
<b>ATTORNEY DOCKET NUMBER:</b>	051077-9710-US04
<b>NAME OF SUBMITTER:</b>	TANYA PARENT
<b>SIGNATURE:</b>	/tanyaparent/
<b>DATE SIGNED:</b>	12/20/2021
<b>Total Attachments: 2</b>	
source=051077-9710-US03 Executed Assignment - as filed#page1.tif	
source=051077-9710-US03 Executed Assignment - as filed#page2.tif	

A S S I G N M E N T

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:

Peter Hanna  
25 Stonehaven Rd  
Stanwell Tops NSW 2508  
Australia

Callum Tyler  
7 Burradool Street  
Keiraville, NSW 2500  
Australia

Brad Neilson  
151 Koloona Ave  
Mount Keira NSW 2500  
Australia

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 "SUPPORT FOR DRILLING AND BOLTING DEVICE" for which we filed United States Patent Application No. 16/219,756 (Atty. File No. 051077-9710-US02) (hereinafter the "U.S. utility patent application") which application claims the benefit of United States Provisional Patent Application No. 62/598,225, filed December 13, 2017 (hereinafter the "U.S. provisional patent application") (Atty. File No. 051077-9710-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;

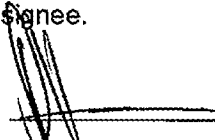
(3) in and to all patent applications on said invention now or hereafter filed in countries foreign to the United States of America, and in and to any and all patents granted on said applications to the full end of the terms for which said patents may be granted; and

(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 our Assignee with a claim to priority based on either or both of the U.S. utility patent application and the U.S. provisional 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.

April 16, 2019  
Date

  
Peter Hanna

April 16, 2019  
Date

  
Callum Tyler

May 2nd 2019.  
Date

  
Brad Neilson