

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5811898

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	MERGER	
EFFECTIVE DATE:	04/30/2018	
CONVEYING PARTY DATA		
	Name	Execution Date
	JOY MM DELAWARE, INC.	04/30/2018
RECEIVING PARTY DATA		
Name:	JOY GLOBAL UNDERGROUND MINING LLC	
Street Address:	40 PENNWOOD PLACE	
Internal Address:	SUITE 100	
City:	WARRENDAL	
State/Country:	PENNSYLVANIA	
Postal Code:	15086	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	16678656	
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>		
Phone:	4142716560	
Email:	mkeipdocket@michaelbest.com	
Correspondent Name:	MICHAEL BEST & FRIEDRICH LLP (MKE)	
Address Line 1:	100 E WISCONSIN AVENUE	
Address Line 2:	SUITE 3300	
Address Line 4:	MILWAUKEE, WISCONSIN 53202	
ATTORNEY DOCKET NUMBER:	051077-9237-US03	
NAME OF SUBMITTER:	BRIAN J. MARSTALL	
SIGNATURE:	/bjm/	
DATE SIGNED:	11/08/2019	
Total Attachments: 4		
source=23274825_Joy_Global_Underground_Mining_LLC-DE-Merger_(Survivor)#page1.tif		
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source=23274825_Joy_Global_Underground_Mining_LLC-DE-Merger_(Survivor)#page3.tif		

Delaware

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Page 1

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"JOY MM DELAWARE, INC.", A DELAWARE CORPORATION,

WITH AND INTO "JOY GLOBAL UNDERGROUND MINING LLC" UNDER THE NAME OF "JOY GLOBAL UNDERGROUND MINING LLC", A LIMITED LIABILITY COMPANY ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE ON THE THIRTIETH DAY OF APRIL, A.D. 2018, AT 1:33 O`CLOCK P.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



Jeffrey W. Bullock, Secretary of State

2090759 8100M
SR# 20183158641

You may verify this certificate online at corp.delaware.gov/authver.shtml

Authentication: 202610867
Date: 05-01-18

PATENT
REEL: 050960 FRAME: 0788

CERTIFICATE OF MERGER
OF
JOY MM DELAWARE, INC.
AND
JOY GLOBAL UNDERGROUND MINING LLC

Adopted in accordance with the provisions of

Section 18-209 of the Delaware Limited Liability
Company Act

It is hereby certified that:

1. The constituent business entities participating in the merger herein certified are:
 - (i) Joy MM Delaware, Inc., which is incorporated under the laws of the State of Delaware; and
 - (ii) Joy Global Underground Mining LLC, which is formed under the laws of the State of Delaware.
2. An Agreement of Merger has been approved, adopted, certified, executed and acknowledged by each of the aforesaid constituent entities in accordance with the provisions of Section 18-209 of Delaware Limited Liability Company Act, to wit, by Joy Global Underground Mining LLC.
3. The surviving entity in the merger herein certified is Joy Global Underground Mining LLC, which will continue its existence as said surviving entity upon the effective date of said merger pursuant to the provisions of the Delaware Limited Liability Company Act.
4. The Certificate of Formation of Joy Global Underground Mining LLC shall be the Certificate of Formation of said surviving entity until further amended and changed pursuant to the provisions of the Delaware Limited Liability Company Act.
5. The executed Agreement of Merger between the aforesaid constituent entities is on file at the principal place of business of the aforesaid surviving entity, the address of which is as follows:

Joy Global Underground Mining LLC
40 Pennwood Place
Suite 100
Warrendale, Pennsylvania 15086

6. A copy of the Agreement of Merger will be furnished by the surviving entity on request, without cost, to any stockholder of any constituent corporation or member of any constituent limited liability company.

Executed on this 30th day of April, 2018

JOY MM DELAWARE, INC.

Christopher C. Jones
Vice President, Secretary and Treasurer

JOY GLOBAL UNDERGROUND MINING LLC



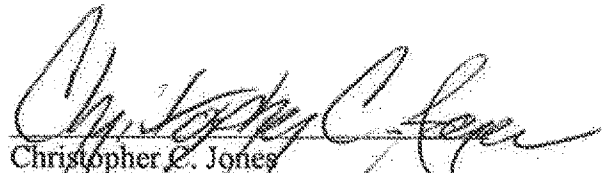
Barbara G. Bolens
Treasurer

Joy Global Underground Mining LLC
40 Pennwood Place
Suite 100
Warrendale, Pennsylvania 15086

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Executed on this 30th day of April, 2018

JOY MM DELAWARE, INC.


Christopher E. Jones
Vice President, Secretary and Treasurer

JOY GLOBAL UNDERGROUND MINING LLC

Barbara G. Bolens
Treasurer