

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5472241

| | | |
|---|------------------------------------|-----------------------|
| 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: | 16107688 | |
| 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: | 414-271-6560 | |
| 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: | 051077-9443-US03 | |
| NAME OF SUBMITTER: | THOMAS A. MILLER | |
| SIGNATURE: | /tam/ | |
| DATE SIGNED: | 04/12/2019 | |
| Total Attachments: 4 | | |
| source=23274825_Joy_Global_Underground_Mining_LLC-DE-Merger_(Survivor)#page1.tif | | |
| source=23274825_Joy_Global_Underground_Mining_LLC-DE-Merger_(Survivor)#page2.tif | | |
| source=23274825_Joy_Global_Underground_Mining_LLC-DE-Merger_(Survivor)#page3.tif | | |

Delaware

The First State

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.



A handwritten signature in black ink, appearing to read "JBullock", is written over a horizontal line. Below the line, the text "Jeffrey W. Bullock, Secretary of State" is printed in a small font.

2090759 8100M
SR# 20183158641

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

Authentication: 202610867
Date: 05-01-18

PATENT
REEL: 048871 FRAME: 0860

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



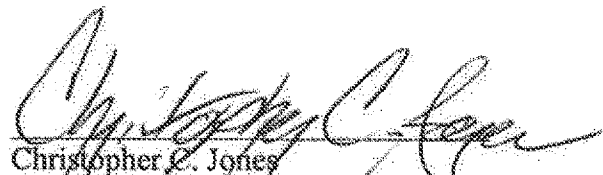
Barbara G. Bolens
Treasurer

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

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 E. Jones
Vice President, Secretary and Treasurer

JOY GLOBAL UNDERGROUND MINING LLC

Barbara G. Bolens
Treasurer