

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| SUBMISSION TYPE:                                                                                                                                                                                                                                                                                                                           | NEW ASSIGNMENT        |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-------------------|------------|-------------------|------------|-----------------|------------|--------------|-------|--|
| NATURE OF CONVEYANCE:                                                                                                                                                                                                                                                                                                                      | ASSIGNMENT            |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| CONVEYING PARTY DATA                                                                                                                                                                                                                                                                                                                       |                       |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| <table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Edward F. Niederriter</td><td>05/12/2011</td></tr><tr><td>Shawn W. Franklin</td><td>05/12/2011</td></tr><tr><td>Philip R. Strydom</td><td>07/25/2011</td></tr><tr><td>Robert P. Aaron</td><td>05/12/2011</td></tr></tbody></table>            | Name                  | Execution Date        | Edward F. Niederriter | 05/12/2011            | Shawn W. Franklin | 05/12/2011 | Philip R. Strydom | 07/25/2011 | Robert P. Aaron | 05/12/2011 |              |       |  |
| Name                                                                                                                                                                                                                                                                                                                                       | Execution Date        |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| Edward F. Niederriter                                                                                                                                                                                                                                                                                                                      | 05/12/2011            |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| Shawn W. Franklin                                                                                                                                                                                                                                                                                                                          | 05/12/2011            |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| Philip R. Strydom                                                                                                                                                                                                                                                                                                                          | 07/25/2011            |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| Robert P. Aaron                                                                                                                                                                                                                                                                                                                            | 05/12/2011            |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| RECEIVING PARTY DATA                                                                                                                                                                                                                                                                                                                       |                       |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| <table border="1"><tr><td>Name:</td><td>Joy MM Delaware, Inc.</td></tr><tr><td>Street Address:</td><td>2751 Centerville Road</td></tr><tr><td>Internal Address:</td><td>Suite 342</td></tr><tr><td>City:</td><td>Wilmington</td></tr><tr><td>State/Country:</td><td>DELAWARE</td></tr><tr><td>Postal Code:</td><td>19808</td></tr></table> | Name:                 | Joy MM Delaware, Inc. | Street Address:       | 2751 Centerville Road | Internal Address: | Suite 342  | City:             | Wilmington | State/Country:  | DELAWARE   | Postal Code: | 19808 |  |
| Name:                                                                                                                                                                                                                                                                                                                                      | Joy MM Delaware, Inc. |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| Street Address:                                                                                                                                                                                                                                                                                                                            | 2751 Centerville Road |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| Internal Address:                                                                                                                                                                                                                                                                                                                          | Suite 342             |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| City:                                                                                                                                                                                                                                                                                                                                      | Wilmington            |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| State/Country:                                                                                                                                                                                                                                                                                                                             | DELAWARE              |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| Postal Code:                                                                                                                                                                                                                                                                                                                               | 19808                 |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| PROPERTY NUMBERS Total: 1                                                                                                                                                                                                                                                                                                                  |                       |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| <table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>13036920</td></tr></tbody></table>                                                                                                                                                                               | Property Type         | Number                | Application Number:   | 13036920              |                   |            |                   |            |                 |            |              |       |  |
| Property Type                                                                                                                                                                                                                                                                                                                              | Number                |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| Application Number:                                                                                                                                                                                                                                                                                                                        | 13036920              |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| CORRESPONDENCE DATA                                                                                                                                                                                                                                                                                                                        |                       |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| Fax Number: (414)277-0656<br><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>                                                                                                                                                                                                                          |                       |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| Phone: 4142716560                                                                                                                                                                                                                                                                                                                          |                       |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| Email: MKEIPDOCKET@MICHAELBEST.COM                                                                                                                                                                                                                                                                                                         |                       |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| Correspondent Name: Michael Best & Friedrich LLP                                                                                                                                                                                                                                                                                           |                       |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
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| Address Line 2: Suite 3300                                                                                                                                                                                                                                                                                                                 |                       |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| Address Line 4: MILWAUKEE, WISCONSIN 53202-4108                                                                                                                                                                                                                                                                                            |                       |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| ATTORNEY DOCKET NUMBER:                                                                                                                                                                                                                                                                                                                    | 051077-9105-US01      |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| NAME OF SUBMITTER:                                                                                                                                                                                                                                                                                                                         | Thomas A. Miller      |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |
| Total Attachments: 2<br>source=051077-9105-US01 Executed Assignment - as filed#page1.tif<br>source=051077-9105-US01 Executed Assignment - as filed#page2.tif                                                                                                                                                                               |                       |                       |                       |                       |                   |            |                   |            |                 |            |              |       |  |

CH \$40.00 13036920

501649524

PATENT  
REEL: 026863 FRAME: 0801

# ASSIGNMENT

Pursuant to our obligation to Joy MM Delaware, Inc. (hereinafter referred to as "Assignee"), a Delaware corporation having its principal place of business at:

2751 Centerville Road  
Suits 342  
Wilmington, DE 19808

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

Edward F. Niederlitter  
239 Dampseytown Rd.  
Fryburg, PA 16328

Shawn W. Franklin  
1383 Rockland-Nicklesville Rd.  
Emlenton, PA 16373

Philip R. Strydom  
~~120 Liberty Street~~  
~~Franklin, PA 16323~~

9832 S Mustang Place  
Oak Creek, WI 53154

Robert P. Aaron  
57 Brothers Ln.  
Marble, PA 16334

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 "COOLING A RANGING ARM GEAR CASE ON A LONGWALL SHEARER" for which we filed United States Patent Application No. 13/036,920 (Atty. File No. 051077-8105-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 invention, 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 either or both of 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.

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

5/12/2011  
Date

Edward F. Niederlitter  
Edward F. Niederlitter

5/12/2011  
Date

Shawn W. Franklin  
Shawn W. Franklin

7/25/2011  
Date

Philip R. Strydom  
Philip R. Strydom

12 MAY 2011  
Date

Robert P. Aaron  
Robert P. Aaron