

05-16-2000



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FORM PTO-1595
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4-94)

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): John R. Frederick</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies) Name: Joy MM Delaware, Inc.</p> <p>Internal Address: _____ Suite 342</p> <p>Street Address: _____ 2751 Centerville Rd.</p> <p>City: <u>Wilmington</u> State: <u>DE</u> ZIP: <u>19808</u></p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other _____</p> <p>Execution Date: <u>2/9/2000</u></p>	

4. Application number(s) or patent number(s): 09/493,976

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)	B. Patent No.(s)
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Additional numbers attached? Yes No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>James Earl Lowe, Jr.</u></p> <p>Internal Address: _____ <u>Law Department</u></p>	<p>6. Total number of applications and patents involved: <input type="text" value="1"/></p>
<p>05/15/2000 JSHR0077 00000021 000757 09493976</p> <p>01 FC:501</p> <p><u>40.00 CR</u> Street Address: _____ <u>3600 South Lake Drive</u></p> <p>City: <u>St. Francis</u> State: <u>WI</u> ZIP: <u>53235</u></p>	<p>7. Total fee (37 CFR 3.41).....\$ <u>40.00</u></p> <p><input type="checkbox"/> Enclosed</p> <p><input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>8. Deposit account number: <u>08-0757</u></p> <p>(Attach duplicate copy of this page if paying by deposit account)</p>

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9. Statement and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

James Earl Lowe, Jr. James Earl Lowe, Jr. 4/18/00

Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and document:

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

ASSIGNMENT

ASSIGNMENT made by John R. Frederick of the State of PA; (hereinafter Said Inventor) to Joy MM Delaware, Inc., a corporation organized under the laws of the State of Delaware and located and doing business at 2751 Centerville Road, Suite 310, Wilmington, Delaware.

IN CONSIDERATION of good and valuable considerations, the receipt of which is hereby acknowledged, Said Inventor does hereby sell, assign and transfer to Joy MM Delaware, Inc., its successors and assigns, the entire right, title and interest in MACHINE USED IN CONNECTION WITH UNDERGROUND MINING HAVING AN OPERATOR PROTECTIVE SHIELD and the invention therein as set forth in their application for United States Letters Patent therefor, executed on even date herewith, and in and to said application and any divisions or continuations thereof, and any Letters Patent obtained for said invention in the United States and foreign countries, or issuing out of said application or any such division or continuation thereof, and any reissues or extensions of any such Letters Patent.

The Commissioner of Patents is hereby authorized and requested to issue Letters Patent for said invention to said Joy MM Delaware, Inc., as assignee of the entire right, title and interest therein.

And, Said Inventor hereby covenants that he has full right to convey the entire right, title and interest in said invention, and that he has not executed and will not execute any agreement in conflict herewith.

And, he further covenants that he will at any time, upon request, execute and deliver any and all papers that may be necessary or desirable to perfect the title in said Joy MM Delaware, Inc., to said invention or any Letters Patent that may be granted therefor, and that if said Joy MM Delaware, Inc., or its assignee, desires to make a substitute, divisional or continuation application for said invention, or to secure a reissue or extension of said Letters Patent, to file a disclaimer relating thereto, or an application for a corresponding patent in any foreign country, that he will, upon request, sign all papers, make all rightful oaths, and do all lawful acts requisite for the said purposes, but at the expense of said Joy MM Delaware, Inc..

He further hereby acknowledges that the entire beneficial interest in the invention to which the above application relates is irrevocably vested in the assignee including the right to make applications for protection in all countries abroad and to claim priority under the International Convention for such applications and hereby assent to the making of any such applications, with or without priority claim, and of any divisional application resulting therefrom.

And, he further covenants that he will at all times communicate to the said Joy MM Delaware, Inc., its successors, assigns or legal representatives, all facts relating to said invention and Letters Patent, or the history thereof, known to him, and testify as to the same in interferences or other litigation when requested so to do.

I hereby authorize the above-mentioned assignee or the attorney of record to insert in this instrument the filing date and serial number of my said application:

Serial No.: 09/593,974

Filing date: 1/23/2000

Executed and delivered this 9 day of February,
by John R. Frederick

John R. Frederick

State of PENNSYLVANIA)

)ss.

County of VENANGO)

Personally appeared before me this 9th day of FEBRUARY, to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he signed, sealed and delivered the said instrument as his free and voluntary act and deed for the uses and purposes therein set forth.

Debra S. Criss

Notary Public
My Commission Expires:

