

## PATENT ASSIGNMENT

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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>Larry D. Frederick</td> <td>06/16/2009</td> </tr> <tr> <td>Dwight Medley</td> <td>06/16/2009</td> </tr> </tbody> </table>		Name	Execution Date	Larry D. Frederick	06/16/2009	Dwight Medley	06/16/2009				
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Dwight Medley	06/16/2009										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Frederick Mining Controls, LLC</td> </tr> <tr> <td>Street Address:</td> <td>P.O. Box 5325</td> </tr> <tr> <td>City:</td> <td>Huntsville</td> </tr> <tr> <td>State/Country:</td> <td>ALABAMA</td> </tr> <tr> <td>Postal Code:</td> <td>35814</td> </tr> </table>		Name:	Frederick Mining Controls, LLC	Street Address:	P.O. Box 5325	City:	Huntsville	State/Country:	ALABAMA	Postal Code:	35814
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: 2024202201  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 202-420-2200        Email: gregoryd@dicksteinshapiro.com        Correspondent Name: Dickstein Shapiro LLP        Address Line 1: 1825 Eye Street NW        Address Line 4: Washington, DISTRICT OF COLUMBIA 20006</p>											
ATTORNEY DOCKET NUMBER:	S0606.0001/P039-A										
NAME OF SUBMITTER:	Donald A. Gregory										
Signature:	/DAG/										
Date:	09/09/2013										

Total Attachments: 5

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## ASSIGNMENT BY INVENTORS

**THIS ASSIGNMENT**, made by Larry D. Frederick and Dwight Medley (hereinafter referred to as Assignors), residing at 380 Dupree Drive, Huntsville, Alabama 35806; and 88 North Howard Fitch Road, Kelso, Tennessee 37348, respectively;

**WHEREAS**, Assignors have invented certain new and useful improvements in ELECTROMAGNETIC FIELD ADJUSTMENT FOR PROXIMITY DETECTION, set forth in an application for Letters Patent of the United States, already filed on March 24, 2009 as U.S. application No. 12/409,809; and

**WHEREAS**, Frederick Mining Controls, LLC, organized under and pursuant to the laws of Alabama having its principal place of business at Frederick Mining Controls, LLC, P.O. Box 5325, Huntsville, Alabama 35814 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefor and thereon.

**NOW, THEREFORE**, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property including all rights of priority, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

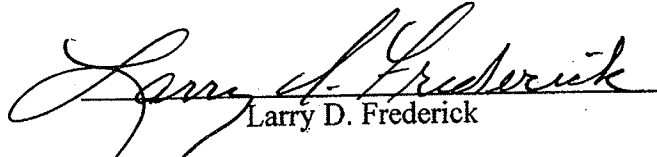
AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

DICKSTEIN SHAPIRO LLP

All practitioners at Customer Number 24998

**AND** Assignors acknowledge an obligation of assignment of this invention to Assignee  
at the time the invention was made.

  
Larry D. Frederick

Date: 6-16-09

United States of America )  
State of Alabama ) ss.:  
County of MADISON )

On this 16 day of JUNE, 2009, before me  
personally came Larry D. Frederick, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.


  
Notary Public  
MY COMMISSION EXPIRES APRIL 24, 2011

  
Dwight Medley

Date: 6-16-09

United States of America )  
State of Alabama ) ss.:  
County of MADEIRA )

On this 16 day of JUNE, 2009, before me  
personally came Dwight Medley, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

  
Notary Public

MY COMMISSION EXPIRES APRIL 24, 2011

DSMDB-2590306v01

RECORDED: 09/09/2013

PATENT  
REEL: 031164 FRAME: 0504