

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>MICHAEL ALVIN BROWN</td> <td>08/25/2011</td> </tr> <tr> <td>BRIAN KEITH DAVIS</td> <td>08/25/2011</td> </tr> <tr> <td>TOWNER BENNET SCHEFFLER</td> <td>08/25/2011</td> </tr> </tbody> </table>		Name	Execution Date	MICHAEL ALVIN BROWN	08/25/2011	BRIAN KEITH DAVIS	08/25/2011	TOWNER BENNET SCHEFFLER	08/25/2011		
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<table border="1"> <tr> <td>Name:</td> <td>MINE SAFETY APPLIANCES COMPANY</td> </tr> <tr> <td>Street Address:</td> <td>1000 CRANBERRY WOODS DRIVE</td> </tr> <tr> <td>City:</td> <td>CRANBERRY TOWNSHIP</td> </tr> <tr> <td>State/Country:</td> <td>PENNSYLVANIA</td> </tr> <tr> <td>Postal Code:</td> <td>16066</td> </tr> </table>		Name:	MINE SAFETY APPLIANCES COMPANY	Street Address:	1000 CRANBERRY WOODS DRIVE	City:	CRANBERRY TOWNSHIP	State/Country:	PENNSYLVANIA	Postal Code:	16066
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: 4122548088 Phone: 4122532610 Email: hbartony@bartlaw.com <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: HENRY E BARTONY JR Address Line 1: BARTONY & ASSOCIATES LLC Address Line 2: P.O. BOX 910 Address Line 4: BUTLER, PENNSYLVANIA 16003-0910</p>											
ATTORNEY DOCKET NUMBER:	09-001										
NAME OF SUBMITTER:	Henry E. Bartony, Jr.										
<p>Total Attachments: 4 source=AssigExe_09-001#page1.tif source=AssigExe_09-001#page2.tif source=AssigExe_09-001#page3.tif source=AssigExe_09-001#page4.tif</p>											

OP \$40.00 13220240

ASSIGNMENT

WHEREAS, **MICHAEL ALVIN BROWN**, a citizen and resident of the United States of America, whose address is 142 Village Drive, Cranberry Township, Pennsylvania 16066, **BRIAN KEITH DAVIS**, a citizen and resident of the United States of America, whose address is 438 Dutchtown Road, Butler, Pennsylvania 16002, **TOWNER BENNET SCHEFFLER**, a citizen and resident of the United States of America, whose address is 221 Beech Road, Butler, Pennsylvania 16001 (hereinafter referred to as ASSIGNORS), has invented and owns a certain invention or inventions entitled

SENSORS AND SENSOR HOUSING SYSTEMS

which is described in a U.S. patent application filed on August 29, 2011 under application Serial No. **13/220,240**; and

WHEREAS, **MINE SAFETY APPLIANCES COMPANY**, a corporation organized and existing under the laws of the State of Pennsylvania and having a place of business at 1000 Cranberry Woods Drive, Cranberry Township, Pennsylvania 16066 (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention(s) and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

This Assignment of Invention, effective as of August 29, 2011, may be executed by the parties in multiple counterparts, each of which shall be deemed an original.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that in consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNORS hereby sell, assign and transfer to ASSIGNEE the full and exclusive right, title and interest to said invention(s) in the United States and its territorial possessions and in all foreign countries, said application for Letters Patent, and any and all issued Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention(s) by said application or any continuation, divisional, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States to ASSIGNEE.


ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale; and

ASSIGNORS further covenant that when requested, without charge to, but at the expense of ASSIGNEE, that ASSIGNORS will: 1) promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention(s), said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof; 2) execute, for all countries, all divisions, reissues, reexaminations, continuations, renewals, extensions and all other patent applications on any and all of said invention(s); 3) communicate all facts known to ASSIGNORS relating to said invention(s), said application, said

Letters Patent and legal equivalents in foreign countries and the history thereof; 4) testify in all legal proceedings; and 5) generally do everything possible which Assignee, its successors, assigns and representatives shall consider desirable for aiding in securing, maintaining and/or enforcing ASSIGNEE'S rights and patent protection in said invention(s), and for vesting title therein in ASSIGNEE, its successors, assigns and legal representatives.

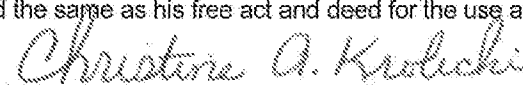
ASSIGNORS further agree that ASSIGNEE shall have and to hold the interests assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, reexaminations, continuations, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment not been made.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 25th day of Aug, 2011.


MICHAEL ALVIN BROWN

STATE OF Pennsylvania)
COUNTY OF Butler) ss.

BE IT KNOWN, that on this 25th day of August, 2011, before me personally came Michael Alvin Brown, to me known to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.


Notary Public

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal

Christine A. Krolicki, Notary Public

Cranberry Twp., Butler County

My Commission Expires June 26, 2015

MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Letters Patent and legal equivalents in foreign countries and the history thereof; 4) testify in all legal proceedings; and 5) generally do everything possible which Assignee, its successors, assigns and representatives shall consider desirable for aiding in securing, maintaining and/or enforcing ASSIGNEE'S rights and patent protection in said invention(s), and for vesting title therein in ASSIGNEE, its successors, assigns and legal representatives.

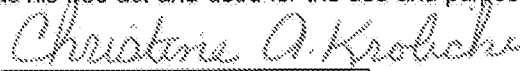
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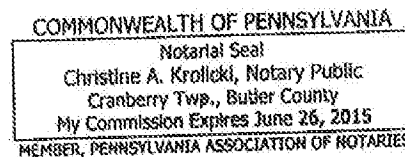
IN WITNESS WHEREOF, I have hereunto set my hand and seal this 25th day of AUG, 2011.


BRIAN KEITH DAVIS

STATE OF Pennsylvania)
) ss.
COUNTY OF Butler)

BE IT KNOWN, that on this 25th day of August, 2011, before me personally came Brian Keith Davis, to me known to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.


Notary Public



Letters Patent and legal equivalents in foreign countries and the history thereof; 4) testify in all legal proceedings; and 5) generally do everything possible which Assignee, its successors, assigns and representatives shall consider desirable for aiding in securing, maintaining and/or enforcing ASSIGNEE'S rights and patent protection in said invention(s), and for vesting title therein in ASSIGNEE, its successors, assigns and legal representatives.

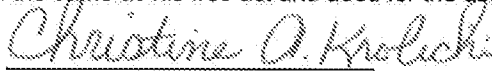
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IN WITNESS WHEREOF, I have hereunto set my hand and seal this 25th day of Aug, 2011.


TOWNER BENNET SCHEFFLER

STATE OF Pennsylvania)
COUNTY OF Butler) ss.

BE IT KNOWN, that on this 25th day of August, 2011, before me personally came Towner Bennet Scheffler, to me known to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.


Notary Public

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Christine A. Krollicki, Notary Public
Cranberry Twp., Butler County
My Commission Expires June 26, 2015
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES