

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4209750

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
MINE SAFETY APPLIANCES COMPANY, LLC		03/03/2014
RECEIVING PARTY DATA		
Name:	MSA TECHNOLOGY, LLC	
Street Address:	1000 CRANBERRY WOODS DRIVE	
City:	CRANBERRY TOWNSHIP	
State/Country:	PENNSYLVANIA	
Postal Code:	16066	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	15388132	
CORRESPONDENCE DATA		
Fax Number:	(412)254-8088	
<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:	4122532610	
Email:	hbartony@bartlaw.com	
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	
ATTORNEY DOCKET NUMBER:	12-029D	
NAME OF SUBMITTER:	HENRY E. BARTONY, JR.	
SIGNATURE:	/Henry E. Bartony, Jr., Reg. No. 34,772/	
DATE SIGNED:	01/04/2017	
Total Attachments: 38		
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INTELLECTUAL PROPERTY ASSIGNMENT AGREEMENT

This Intellectual Property Assignment Agreement (the "Assignment"), effective as of March 7, 2014, is by and between MINE SAFETY APPLIANCES COMPANY, LLC, a Pennsylvania limited liability company with its principal place of business located at 1000 Cranberry Woods Drive, Cranberry Township, Pennsylvania 16066 ("Assignor") to MSA TECHNOLOGY, LLC, a Pennsylvania limited liability company, with its principal place of business located at 1000 Cranberry Woods Drive, Cranberry Township, Pennsylvania 16066 ("Assignee").

WHEREAS, Assignor is the owner of certain intellectual property listed on the attached Schedules A, B, and C (the "Assigned IP");

WHEREAS, Assignor desires to assign, and Assignee desires to acquire all worldwide right, title, and interest in and to the Assigned IP, including any and all goodwill of the business associated with the use of, and symbolized by the trademarks, and the parties wish to record such acquisition in the respective Patent and Trademark Offices, Copyright Offices, and/or relevant official offices, registrars, and registries around the world.

NOW, THEREFORE, in consideration of the sum of US\$10 (ten US Dollars) and other good and valuable consideration paid by the Assignee to the Assignor, the receipt and sufficiency of which is hereby acknowledged, Assignor and Assignee agree as follows:

1. Assignment of Trademarks. Effective as of immediately following the contribution by Assignor to MSA Advanced Detection, LLC of 100% of the membership interests of General Monitors Transnational, LLC and all of the outstanding capital stock of General Monitors Inc. (such time, the "Effective Time"), Assignor contributes as a capital contribution without additional consideration, transfers, conveys, assigns and delivers to Assignee and Assignee accepts all right, title, and interest of Assignor in and to (i) the trademarks and trademark applications set forth in Schedule A hereto as well as any unregistered trademarks currently used by Assignor, together with the goodwill of the business symbolized thereby; (ii) all renewals and extensions of any such application, registration and filing; (iii) all licenses for the use of the trademarks; (iv) all income, royalties, damages, claims, and payments now or hereafter due or payable under and with respect thereto, including, without limitation, damages, claims, and payments for past and future infringements thereof; (v) all rights to sue for past, present, and future infringements of the foregoing, including the right to settle suits involving claims and demands for royalties owing; (vi) all rights corresponding to any of the foregoing throughout the world; and (vii) the right to assign the rights conveyed herein, the same to be held and enjoyed by Assignee for its own use and benefit, and for the benefit of its successors, assigns, and legal representatives (the "Assigned Trademarks").
2. Assignment of Patents. Effective as of the Effective Time, Assignor contributes as a capital contribution without additional consideration, transfers, conveys, assigns and delivers to Assignee and Assignee accepts all right, title, and interest of Assignor in and to (i) the patents, patent applications and design patents (including registered designs) set forth in Schedule B hereto as well as any inventions and disclosures previously created

by employees of Assignor but not yet filed; (ii) all inventions and improvements described and claimed therein, and patents which may be granted from divisions, reissues, substitutions, continuations, continuations-in-part, reexaminations, foreign counterparts and extensions thereof claiming priority to the underlying said patent rights; (iii) all licenses for the use of the patents; (iv) all income, royalties, damages, claims, and payments now or hereafter due or payable under and with respect thereto, including, without limitation, damages, claims, and payments for past and future infringements thereof; (v) all rights to sue for past, present, and future infringements of the foregoing, including the right to settle suits involving claims and demands for royalties owing; (vi) all rights corresponding to any of the foregoing throughout the world; and (vii) the right to assign the rights conveyed herein, the same to be held and enjoyed by Assignee for its own use and benefit, and for the benefit of its successors, assigns, and legal representatives (the "Assigned Patents").

3. Assignment of Copyrights. Effective as of Effective Time, Assignor contributes as a capital contribution without additional consideration, transfers, conveys, assigns and delivers to Assignee and Assignee accepts all right, title, and interest of Assignor in and to (i) copyrights and copyright registrations set forth in Schedule C hereto as well as any unregistered copyrights currently owned by Assignor, (ii) including all extensions or renewals thereof, in each case whether published or unpublished, (iii) all licenses for the use of the copyrights; (iv) all income, royalties, damages, claims, and payments now or hereafter due or payable under and with respect thereto, including, without limitation, damages, claims, and payments for past and future infringements thereof; (v) all rights to sue for past, present, and future infringements of the foregoing, including the right to settle suits involving claims and demands for royalties owing; (vi) all rights corresponding to any of the foregoing throughout the world; and (vii) the right to assign the rights conveyed herein, the same to be held and enjoyed by Assignee for its own use and benefit, and for the benefit of its successors, assigns, and legal representatives (the "Assigned Copyrights").
4. Know-How. Effective as of the Effective Time, Assignor contributes as a capital contribution without additional consideration, transfers, conveys, assigns and delivers to Assignee and Assignee accepts all right, title, and interest of Assignor in and to the all trade secrets, techniques, processes, standard calculations, business information, residual know-how and other information owned or controlled by Licensor that is necessary or useful to design, develop or manufacture products. For purposes of this definition, "residual know-how" means confidential information in non-tangible form, which may be retained in the unaided memories of individuals. (the "Assigned Know-How").
5. Further Assurances. Assignor shall promptly do, make, execute, or deliver, or cause to be done, made, executed, or delivered, all such further acts, documents, and things as are necessary to transfer ownership of the Assigned IP to Assignee and for Assignee to record or register the Assigned IP with the relevant official office or registry.
6. Liabilities; Indemnification. Assignee is not assuming any of the liabilities or obligations relating to the Assigned IP or the Assigned Know-How that are based in whole or in part on any facts or circumstances that existed on or prior to the Effective Time. Assignor

shall indemnify, defend and hold harmless Assignee and all of Assignee's members, managers, officers and employees against any and all losses relating to, arising out of or incurred in connection with the Assigned IP or the Assigned Know-How on or prior to the Effective Time or any claim that any of the Assigned IP or Assigned Know-How infringes on any intellectual property or other rights of any other person.

7. Successors. This Assignment shall inure to the benefit of and is binding upon the respective successors and assigns of Assignor and Assignee.
8. Governing Law. This Assignment shall be governed by, and construed in accordance with (i) the laws of the United States, in respect to trademark, patent and copyright issues, and (ii) in all other respects, including as to validity (except for patent, trademark and copyright issues), interpretation and effect, by the laws of the State of Pennsylvania without giving effect to the conflict of laws rules thereof.
9. Counterparts. This Assignment may be executed in separate counterparts, each of which is deemed to be an original and all of which taken together constitute one and the same agreement.

IN WITNESS WHEREOF, Assignor and Assignee caused this Assignment to be duly executed as of the date first written above.

ASSIGNOR

MINE SAFETY APPLIANCES
COMPANY, LLC

By: [Signature]
Name: Stacy McMahan
Its: Vice President

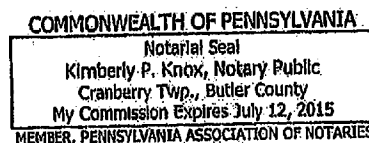
STATE OF Pennsylvania)
) ss.
COUNTY OF Butler)

Before me, the undersigned authority, on this 3rd day of March, 2014, personally appeared Stacy McMahan known to me as the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same for the purposes and consideration therein expressed, in the capacity state, and with authority to act in this assignment on behalf of the Assignor.

[Signature]
Notary Public

[Signature]
(Signature of Notary)

[Signature]
(Legibly Print or Stamp Name of Notary)



ACCEPTED BY:

ASSIGNEE

MSA TECHNOLOGY, LLC

By: Nishan J. Vartanian

Name: Nishan J. Vartanian

Its: President

STATE OF Pennsylvania)
) ss.
COUNTY OF Butler)

Before me, the undersigned authority, on this 3rd day of March, 2014, personally appeared Nishan J. Vartanian known to me as the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same for the purposes and consideration therein expressed, in the capacity state, and with authority to act in this assignment on behalf of the Assignee.

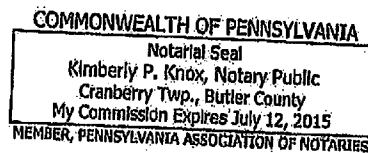
Kimberly P. Knox

Notary Public

Kimberly P. Knox
(Signature of Notary)

Kimberly P. Knox

(Legibly Print or Stamp Name of Notary)



Schedule A - Registered Trademarks

TITLE	COUNTRY	APPLICATION NUMBER	APPLICATION DATE	REGISTRATION NUMBER	REGISTRATION DATE
MSA	AE	141101	Apr 11, 2010	152832	Sep 25, 2011
V (STYLIZED/V-GARD DESIGN) (2D)	AE	127784	Apr 1, 2009	161218	Dec 11, 2011
V-GARD	AE	141313	Apr 15, 2010	141313	Jul 10, 2012
MSA LOGO	AM	1304	Feb 16, 1996	1693	Jun 11, 1997
MSA	AO	1025	Jul 2, 1992	1010	Aug 11, 1998
MSA	AO	1053	Jul 2, 1992	1038	Jul 2, 1992
COMFO (Stylized)	AR	2004216	Oct 12, 1995		
COMFO (Stylized)	AR	2004215	Oct 12, 1995		
MSA	AR	1450454	Sep 20, 1960	1945974	Aug 15, 2003
MSA	AR	1908647	Feb 9, 1994		
MSA	AR	1908645	Feb 9, 1994		
M-S-A	AR	1537102	Jun 26, 1972	2013065	Feb 28, 2005
MSA THE SAFETY COMPANY AND DESIGN	AR	3066762	Feb 11, 2011	2499152	Apr 19, 2012
V (STYLIZED/V-GARD DESIGN) (2D)	AR	2882850	Dec 17, 2008	2331502	Nov 27, 2009
V-GARD	AR	2994395	Apr 13, 2010	2422327	Feb 3, 2011
V-DESIGN (3D)	AR	3283916	Oct 11, 2013		
ADVANTAGE	AU	633858	Jul 1, 1994	633858	Dec 12, 1997
COMFO	AU	434455	Oct 10, 1985	A434455	Oct 10, 1985
MSA	AU	362790	Jul 13, 1981	A362790	Jul 13, 1981
MSA	AU	362791	Jul 13, 1981	A362791	Jul 13, 1981
MSA	AU	362788	Jul 13, 1981	A362788	Jul 13, 1981
MSA	AU	362792	Jul 13, 1981	A362792	Jul 13, 1981
MSA	AU	362787	Jul 13, 1981	A362787	Jul 13, 1981
MSA GRAND PRIX	AU	569179	Dec 12, 1991	A569179	Dec 12, 1991
MSA LIFEGARD	AU	516077	Aug 1, 1989	516077	Feb 25, 1993
V-Design (2D)	AU	367626	Nov 3, 1981	A367626	Nov 3, 1981
V-GARD	AU	434454	Oct 10, 1985	A434454	Oct 10, 1985
660C METRO	AU	720512	Oct 24, 1996	720512	Nov 21, 1997
FIRESLAYER	AU	842660	Jul 14, 2000		
AFFINITY	AU	1568652	Jul 15, 2013		
OPTIMAIR	AU	1568650	Jul 15, 2013		
EVOLUTION	AU	1578610	Sep 5, 2013		
V-DESIGN (3D)	AU	1583094	Sep 27, 2013		
PREMAIRE	AU	1578831	Sep 6, 2013		
MSA LOGO	AZ	10PRT	Dec 3, 1993	990089	Oct 14, 1988
MSA LOGO	BA	UP744498	Dec 30, 1998	BAZR983327A	Jul 22, 1970
MSA LOGO	BG	1190	Nov 5, 1968	6916	Nov 5, 1978
MSA	BH	91018	Mar 5, 2012		
MSA	BN	42489	Feb 1, 2012	42498	Feb 1, 2012
M-S-A	BO			81150	Oct 1, 1971
M-S-A	BO			81151	Oct 1, 1971
MSA LOGO	BO	100236	Jun 26, 2001	85792A	Dec 20, 2002

SCHED A

PATENT
REEL: 041245 FRAME: 0704

TITLE	COUNTRY	APPLICATION NUMBER	APPLICATION DATE	REGISTRATION NUMBER	REGISTRATION DATE
AFFINITY	BR	826934145	Sep 17, 2004	826934145	Mar 2, 2010
COMFO	BR	819559083	Oct 15, 1996	819559083	Apr 6, 1999
MSA	BR	100278	Oct 8, 1943	2505878	Jan 24, 1945
MSA	BR	810780267	Sep 27, 1983	810780267	Sep 27, 1983
M-S-A	BR	794948	Mar 16, 1967	003575039	May 18, 1977
V and Design (2D)	BR	830170499	Jan 23, 2009	830170499	Jan 17, 2012
V-GARD	BR	830589953	Apr 27, 2010	830589953	Mar 5, 2013
ALTAIR	BR	906549981	Jul 25, 2013		
GALAXY	BR	906550033	Jul 25, 2013		
XCELL	BR	906550157	Jul 25, 2013		
PREMAIRE	BR	906550092	Jul 25, 2013		
EVOLUTION	BR	906550017	Jul 25, 2013		
EVOTECH	BR	906550327	Jul 25, 2013		
GRAVITY	BR	906550190	Jul 25, 2013		
WORKMAN	BR	906739578	Sep 10, 2013		
ULTIMA	BR	906550130	Jul 25, 2013		
GM LOGO	BR	906807590	Sep 26, 2013		
PRIMAX	BR	906550254	Jul 25, 2013		
SUPREMA	BR	906550289	Jul 25, 2013		
GASSONIC	BR	906807549	Sep 26, 2013		
CHILLGARD	BR	906550262	Jul 25, 2013		
HAZARDWATCH	BR	906807603	Sep 26, 2013		
ADVANTAGE	BR	906549965	Jul 25, 2013		
OPTIMAIR	BR	906550050	Jul 25, 2013		
CAIRNS	BR	906739535	Sep 10, 2013		
GALLET	BR	906832802	Oct 2, 2013		
SORDIN	BR	906771900	Sep 17, 2013		
LEFT/RIGHT	BR	906550246	Jul 25, 2013		
V-Design (3D)	BR	906843650	Oct 4, 2013		
CHEMGARD	BR	906877393	Oct 14, 2013		
MSA	BW	B730584	Feb 6, 1973	4355	Feb 6, 1993
MSA	BX	36832	Dec 29, 1975	341701	Dec 29, 1975
MSA LOGO	BX	NA	Mar 25, 1987	431444	Mar 25, 1987
MSA LOGO	BX	NA	Feb 23, 1987	431420	Feb 23, 1987
MSA LOGO	BY	1070	Oct 4, 1993	1070	Oct 4, 1993
ADVANTAGE	CA	758893	Jun 27, 1994	TMA450206	Nov 17, 1995
COMFO	CA	166797	Aug 26, 1935	UCA5243	Aug 26, 1935
COMFO	CA	165156	Oct 29, 1934	UCA4282	Oct 29, 1934
EXPLOSIMETER	CA	231425	Jun 30, 1955	TMA102628	Feb 10, 1956
GASCOPE	CA	231424	Jun 30, 1995	TMA102627	Feb 10, 1956
GRAVITY	CA	756437	Jun 2, 1994	TMA443140	May 19, 1995
MSA	CA	387790	Jul 15, 1975	221181	Jun 17, 1992
MSA LOGO	CA	1059422	May 18, 2000	566590	Aug 28, 2002
SKULLGARD	CA	383398	Mar 3, 1975	TMA211536	Jan 16, 1976
SURE-LOCK	CA	707777	Jun 23, 1992	TMA415298	Aug 6, 1993

SCHED A

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TITLE	COUNTRY	APPLICATION NUMBER	APPLICATION DATE	REGISTRATION NUMBER	REGISTRATION DATE
TOPGARD	CA	325413	Aug 26, 1969	TMA171316	Sep 18, 1970
TOXGARD	CA	435780	Feb 13, 1979	TMA247639	Jul 4, 1980
V and Design (2D)	CA	1421693	Dec 12, 2008	TMA784539	Dec 7, 2010
VANGUARD	CA	727138	Apr 19, 1993	TMA433109	Sep 9, 1994
V-GARD	CA	325414	Aug 26, 1969	TMA170528	Aug 14, 1970
DYNA-LOCK	CA	53040500	Oct 24, 1984	TMA310879	Jan 31, 1986
RAIL SLIDER	CA	76308200	Sep 1, 1994	TMA460969	Aug 9, 1996
SURE-CLIMB	CA	76308400	Sep 1, 1994	TMA460971	Aug 9, 1996
SURE-GRAB	CA	76307900	Sep 1, 1994	TMA461197	Aug 16, 1996
SURE-LINE	CA	76308000	Sep 1, 1994	TMA461198	Aug 16, 1996
SURE-RAIL	CA	76308100	Sep 1, 1994	TMA461199	Aug 16, 1996
SURESTOP	CA	62663000	Mar 2, 1989	TMA372094	Aug 17, 1990
SURE-STRONG	CA	76308300	Sep 1, 1994	TMA460970	Aug 9, 1996
V-Design (3D)	CA	1645573	Sep 27, 2013		
MSA	CH	649392008	Dec 8, 2008	585903	Apr 27, 2009
MSA and Design	CH	035931979	Jul 17, 1979	2P301379	Nov 26, 1979
V and Design (2D)	CH	651682008	Dec 15, 2008	612634	Mar 4, 2011
V-GARD	CH	553542010	May 27, 2010	602423	Jun 27, 2010
COMFO	CL	61731	Dec 19, 1975	741952	Dec 12, 2005
MSA	CL	366018	May 24, 1976	601228	Aug 7, 2001
M-S-A	CL	393544	May 7, 1972	654984	Jan 17, 2003
MSA DE CHILE	CL	360742		592576	Mar 16, 2001
ULTRAVUE	CL	7844	Jun 25, 1974	733045	Sep 8, 2005
V and Design (2D)	CL	601519	Mar 19, 2003	683036	Jan 12, 2004
V-GARD	CL	290151	Nov 6, 1974	709826	Nov 25, 2004
ADVANTAGE	CL	1067149	Jul 18, 2013		
PREMAIRE	CL	1074134	Sep 9, 2013		
AFFINITY	CN	4273751	Sep 17, 2004	4273751	Feb 28, 2007
MSA	CN	5898981	Feb 8, 2007	5898981	Apr 7, 2013
MSA (IN CHINSE)	CN	7697554	Sep 15, 2009		
MSA LOGO	CN	950118847	Sep 19, 1995	1002086	May 14, 1997
MSA LOGO	CN	950118849	Sep 19, 1995	1006106	May 14, 1997
MSA LOGO	CN			178824	Jun 15, 1983
V and Design (2D)	CN	5532668	Aug 10, 2006	5532668	Jul 21, 2009
V-GARD	CN	5532669	Aug 10, 2006	5532669	Sep 28, 2009
SORDIN	CN	10044862	Oct 6, 2012	10044862	Jan 7, 2013
PREMAIRE	CN	12146885	Feb 4, 2013		
ADVANTAGE	CN	12146883	Feb 4, 2013		
EVOLUTION	CN	12146884	Feb 4, 2013		
GALAXY	CN	12146887	Feb 4, 2013		
ULTIMA	CN	12146888	Feb 4, 2013		
XCELL	CN	12146889	Feb 4, 2013		
ALTAIR	CN	12146886	Feb 4, 2013		
OPTIMAIR	CN	12146882	Feb 4, 2013		
EVOTECH	CN	12592965	May 16, 2013		

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PATENT
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TITLE	COUNTRY	APPLICATION NUMBER	APPLICATION DATE	REGISTRATION NUMBER	REGISTRATION DATE
GRAVITY	CN		Apr 24, 2013		
WORKMAN	CN	12592964	May 16, 2013		
CAIRNS	CN	12601275	May 17, 2013		
left/RIGHT	CN	12592968	May 16, 2013		
GASSONIC	CN	12592963	May 16, 2013		
CHILLGARD	CN	12561104	May 10, 2013		
SUPREMA	CN	12592966	May 16, 2013		
PRIMAX	CN	12592967	May 16, 2013		
V STYLIZED/V-GARD DESIGN	CN	9793737	Aug 2, 2011		
V-DESIGN (3D)	CN	13374455	Oct 16, 2013		
CHEMGARD	CN	13374871	Oct 16, 2013		
COMFO (Stylized)	CO	95007836	Feb 28, 1995	176452	Jun 30, 1995
M-S-A	CO			14127	Oct 22, 1976
V and Design (2D)	CO	8133496	Dec 16, 2008	385738	Aug 27, 2009
V-GARD	CO	10041344	Apr 9, 2010	428564	Jun 30, 2011
V - DESIGN (3D)	CO	128618	Jan 20, 2012		
ADVANTAGE	CO	13166032	Jul 12, 2013		
MSA	CR	2012000092	Jan 9, 2012		
MSA LOGO	CZ	159985	Oct 10, 1968	159985	Oct 10, 1968
COMFO	DE	M456519WZ	Dec 22, 1978	994012	Dec 22, 1978
MSA ADVANTAGE	DE	M783149W	Jul 4, 1994	2907580	Jun 7, 1995
MSA LOGO	DE	683539WZ	Oct 9, 1990	2910733	Aug 18, 1995
TOXGARD	DE	M436629	Sep 19, 1977	989258	Sep 19, 1977
MSA WORKMAN	DE	303013032784	May 21, 2013	303013032784	Aug 7, 2013
MSA	DO			156285	Sep 29, 2006
MSA	DZ	139	Feb 9, 1977	53084	Feb 9, 1977
COMFO	EC	72618	Oct 18, 1996	145398	Mar 19, 1998
MSA	EC	4039393	Jul 21, 1993	272794	Aug 29, 1994
MSA LOGO	EE	5657	Jun 30, 1993	10169	Apr 21, 1994
MSA	EG	244111	Apr 7, 2010		
MSA LOGO	EG	59387	Aug 16, 1981	59387	Aug 16, 1991
V-GARD	EG	244535	Apr 14, 2010		
ADVANTAGE	EM	3963535	Jul 30, 2004	3963535	Oct 18, 2005
AIRXPRESS	EM	9519588	Nov 12, 2010	9519588	May 2, 2011
ALTAIR	EM	4385696	Apr 13, 2005	4385696	Feb 27, 2006
COMFO	EM	320325	May 3, 1996	320325	Nov 6, 1998
EVOLUTION	EM	2293702	Jul 9, 2001	2293702	May 10, 2004
MSA	EM	2440568	Nov 6, 2001	2440568	Oct 28, 2003
MSA LOGO	EM	146035	May 3, 1996	146035	Aug 9, 2001
MSA THE SAFETY COMPANY AND DESIGN	EM	8629966	Oct 21, 2009	8629966	Apr 26, 2010
ORION	EM	1637016	May 3, 2000	1637016	May 3, 2000
PREMAIRE	EM	9519695	Nov 12, 2010	9519695	May 2, 2011
ULTIMA	EM	NA	Dec 20, 2002	2986826	Nov 10, 2004
ULTRA ELITE	EM	320192	May 3, 1996	320192	Feb 23, 1999

SCHED A

PATENT
REEL: 041245 FRAME: 0707

TITLE	COUNTRY	APPLICATION NUMBER	APPLICATION DATE	REGISTRATION NUMBER	REGISTRATION DATE
V and Design (2D)	EM	7374028	Nov 6, 2008	7374028	Jun 10, 2009
XCELL	EM	7464308	Dec 15, 2008	7464308	Jul 24, 2009
V-GARD	EM	148650	Apr 1, 1996	148650	Jun 16, 1998
EVOTECH	EM	8371478	Jun 18, 2009	8371478	Jan 12, 2010
FLAMEGARD	EM	4187977	Dec 13, 2004	4187977	Jul 16, 2007
GALAXY	EM	2495539	Dec 10, 2001	2495539	Mar 17, 2003
V-DESIGN (3D)	EM	009958091	May 11, 2011	009958091	Oct 14, 2011
MSA LOGO EXPRESS	EM	10229094	Aug 30, 2011	10229094	Feb 2, 2012
GRAVITY	EM	011579571	Feb 15, 2013	011579571	Jul 16, 2013
CAIRNS	EM	011770591	Apr 25, 2013	011770591	Dec 6, 2013
CHILLGARD	EM	011824349	May 17, 2013	011824349	Oct 10, 2013
V-DESIGN (3D)	EM	012180162	Sep 28, 2013		
CHEMGARD	EM	012206934	Oct 8, 2013		
SUPREMATOUCH	EM	012309241	Nov 13, 2013		
LEFT/	EM	12309266	Nov 13, 2013		
M-S-A (Stylized)	ES	339940	Oct 29, 1958	339940	May 8, 1979
MSA Logo	ES	943366	May 22, 1980	943366	Mar 20, 1982
MSA LOGO	FI	T200102469	Aug 10, 2001	230959	Sep 15, 2004
ADVANTAGE	FR	94527226	Jul 1, 1994	94527226	Jul 1, 1994
MSA	FR	227295	Sep 21, 1976	1370707	Sep 21, 1976
TOXGARD	FR	917835	Mar 31, 1988	1458485	Mar 31, 1988
V-Design (2D)	FR	93457413	Mar 1, 1993	93457413	Feb 28, 1993
ADVANTAGE	GB	1578271	Jul 15, 1994	1578271	Jul 15, 1994
GASCOPE	GB	1237187	Mar 6, 1985	1237187	Mar 6, 1985
MSA	GB	1056634	Dec 22, 1975	1056634	Dec 22, 1975
TOXGARD	GB	1093849	Apr 11, 1978	1093849	Apr 11, 1978
V and Design (2D)	GB	1162031	Sep 29, 1981	1162031	Sep 29, 1981
MSA LOGO	GE	51603	May 20, 1993	6004	Jul 22, 1997
MSA	GH	NA	Sep 3, 2001		
MSA	GH		Sep 3, 2009		
MSA	GR	36248	Sep 28, 1966	36248	Sep 28, 1966
MSA	GT	2012000371	Jan 18, 2012	188602	Apr 28, 2013
MSA	HK	12061985	Apr 11, 1985	B06531987	Mar 27, 1987
V and Design (2D)	HK	301262231	Dec 23, 2008	301262231	May 8, 2009
V-GARD	HK	301582100	Apr 9, 2010	301582100	Sep 1, 2010
V-DESIGN (3D)	HK	302770605	Oct 17, 2013		
MSA	HN	316612	Jan 27, 2012		
MSA LOGO	HR	381049401	Nov 14, 1994	Z942315	Dec 12, 1995
MSA LOGO	HU	2253187768	Oct 17, 1968	120622	Oct 17, 1968
MSA	ID	113306	May 20, 1997	IDM000110844	Jun 30, 1987
V (STYLIZED/V-GARD DESIGN) (2D)	ID	D002009001911	Jan 21, 2009		
V-GARD	ID	538314	May 23, 2002	538314	Jun 2, 2003
V-GARD DESIGN	ID	D002009001911	Jan 21, 2009	IDM000272182	Sep 21, 2010
MSA	IE	244781	Aug 31, 1981	103983	Aug 31, 1981

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TITLE	COUNTRY	APPLICATION NUMBER	APPLICATION DATE	REGISTRATION NUMBER	REGISTRATION DATE
MSA	IL	52483	Jul 8, 1981	52483	Jul 8, 1981
MSA LOGO	IL	157920	Jun 27, 2002	157920	Jan 4, 2004
V (STYLIZED/V-GARD DESIGN) (2D)	IL	218212	Jan 6, 2009	218212	Dec 5, 2010
COMFO (Stylized)	IN	230688	Aug 19, 1965	230688	Aug 9, 1965
EXPLOSIMETER	IN	650315	Dec 29, 1994	650315	Nov 11, 2003
MSA	IN	1957926	Apr 29, 2010		
V and Design (2D)	IN	1769080	Dec 30, 2008	1769080	Dec 30, 2008
V-GARD	IN	1967323	May 18, 2010		
V-DESIGN (3D)	IN	2605218	Oct 1, 2013		
V (STYLIZED/V-GARD DESIGN) (2D)	IQ	53392	Dec 16, 2008		
MSA	IQ				
MSA	IR	64811	Dec 7, 1975	44556	Sep 16, 1954
ADVANTAGE	IT	RM94C0033	Jul 26, 1994	715692	Jul 7, 1997
MSA	IT	34890C76	Sep 28, 1976	758632	Sep 28, 1976
TOXGARD	IT		May 5, 1978	362070	Jul 15, 1985
V (STYLIZED/V-GARD DESIGN) (2D)	IT	35465C81	Nov 16, 1981	443323	Sep 3, 1986
MSA	JM	59679	Jan 26, 2012	59679	Aug 29, 2012
MSA	JO	122227	Jan 31, 2012	122227	Nov 27, 2012
ADVANTAGE	JP	663485	Jun 28, 1994	3263161	Feb 24, 1997
CHEMOX	JP	4295968	Jun 26, 1968	967041	Jun 7, 1992
EXPLOSIMETER	JP	4943274	Apr 16, 1974	2614036	Dec 24, 1993
FAS-TRAC	JP	33835	Jan 21, 1991	2536081	May 31, 1993
FAS-TRAC	JP	200327102	Apr 4, 2003	4747934	Feb 20, 2004
MSA	JP	S50147909	Dec 24, 1975	1711306	Sep 26, 1984
MSA	JP	4235453	Sep 29, 1992	3112133	Jan 31, 1996
MSA	JP	54200010		819901	Jun 5, 1989
ULTRALITE	JP	6218171	Feb 25, 1987	2601462	Nov 30, 1993
V (STYLIZED/V-GARD DESIGN) (2D)	JP	2009010663	Feb 17, 2009	5242759	Jun 26, 2009
V-GARD	JP	5053868	Jul 23, 1968	945855	Jan 22, 1972
MSA	KE	73655	Jan 10, 2012	73655	Aug 29, 2012
MSA LOGO	KG	44	Mar 22, 1994	44	Oct 14, 1968
MSA	KR	54281986	Nov 20, 1986	139252	Feb 11, 1987
MSA and Design	KR	13391987	Dec 28, 1987	52018	Dec 29, 1987
MSA	KR	9901987	Sep 6, 1997	50199	Sep 6, 1977
MSA	KR	116412001	Mar 20, 2001	551399	Jun 18, 2003
V and Design (2D)	KR	40200858227	Dec 16, 2008	40815247	Feb 25, 2010
V-GARD	KR	40201018743	Apr 9, 2010	40889911	Nov 14, 2011
MSA and Design	KR	5620070021115	Nov 21, 2007	4000520180000	
MSA LOGO	KS	4129	Oct 16, 2008	4129	Jul 22, 1970
MSA LOGO	KW	38392	Nov 30, 1997		
TM MSA KW	KW	127155	Jan 30, 2012		

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TITLE	COUNTRY	APPLICATION NUMBER	APPLICATION DATE	REGISTRATION NUMBER	REGISTRATION DATE
MSA LOGO	KZ	998	Jun 11, 1993	3743	Jan 17, 1996
V (STYLIZED/V-GARD DESIGN) (2D)	KZ	45564	Dec 22, 2008	31641	Apr 15, 2010
PREMAIRE	KZ	63632	Sep 10, 2013		
MSA	LK	168630	Feb 2, 2012		
MSA	LS	B735939	Feb 6, 1983	LSM9200863	Feb 6, 1983
MSA LOGO	LT	RL10933	Sep 3, 1993	11930	Jul 13, 1994
MSA LOGO	LV	M934929	May 18, 1993	M16366	Jul 20, 1994
MSA LOGO	LY	15781	Sep 21, 2008		
TM MSA LY	LY	22910	Jun 3, 2013		
MSA	MA	130390	Apr 27, 2010	130390	Apr 27, 2010
MSA LOGO	MD	00321	Oct 25, 1993	510	Sep 12, 1994
MSA LOGO	ME	18601	Oct 14, 2008	18601	Jul 22, 1970
MSA LOGO	MK	Z312194	Nov 24, 1994	02174	Jul 22, 1970
MSA	MN	11095	Feb 3, 2012	10008	Feb 3, 2012
TM MSA MR	MU	MUM121453	Jan 10, 2012	126672012	Apr 12, 2012
MSA	MW	MWTM201200009	Jan 9, 2012	MWTM201200009	Jan 9, 2012
MSA	MX	214571	Oct 14, 1977	214571	Oct 14, 1977
MSA	MX	212695	Oct 14, 1977	212695	Oct 14, 1977
MSA	MX	212553	Oct 14, 1977	212553	Oct 14, 1977
V-DESIGN (2D)	MX	985567	Jan 23, 2009	1085211	Feb 17, 2009
V-GARD	MX	NA	Mar 6, 1979	225387	Mar 6, 1979
MSA Logo	MX	882345	Sep 13, 2007	1014917	Nov 29, 2007
MSA Logo	MX	882341	Sep 13, 2007	1020181	Jan 21, 2008
MSA Logo	MX	882343	Sep 13, 2007	1043420	May 30, 2008
MSA Logo	MX	882337	Sep 13, 2007	1080324	Jan 22, 2009
MSA	MX	882339	Sep 13, 2007	1085631	Feb 19, 2009
MSA	MX	882336	Sep 13, 2007	1085630	Feb 19, 2009
MSA Logo	MX	882334	Sep 13, 2007	1116476	Aug 25, 2009
MSA THE SAFETY COMPANY and Design	MX	1102528	Jul 6, 2010	1175709	Aug 25, 2010
MSA THE SAFETY COMPANY and Design	MX	1102536	Jul 6, 2010	1182105	Sep 30, 2010
MSA THE SAFETY COMPANY and Design	MX	1102532	Jul 6, 2010	1182104	Sep 30, 2010
MSA THE SAFETY COMPANY and Design	MX	1102534	Jul 6, 2010	1186493	Oct 27, 2010
MSA THE SAFETY COMPANY and Design	MX	1102530	Jul 6, 2010	1191864	Nov 29, 2010
MSA THE SAFETY COMPANY and Design	MX	1102529	Jul 6, 2010	1219970	May 31, 2011
V-GARD	MX	225387	Mar 6, 1979	225387	Mar 6, 1979
V-DESIGN (3D)	MX	1417401	Sep 27, 2013		
MSA	MY	9106883	Oct 28, 1991	9106883	Oct 28, 1991

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TITLE	COUNTRY	APPLICATION NUMBER	APPLICATION DATE	REGISTRATION NUMBER	REGISTRATION DATE
V (STYLIZED/V-GARD DESIGN) (2D)	MY	8025486	Dec 30, 2008		
V-GARD	MY	2005899	May 22, 2002	2005899	May 31, 2006
MSA	MZ	204542012	Jan 10, 2012	204542012	Jan 10, 2013
MSA	NA	800508(SWA)	Jun 13, 1980	080508SWA	Jun 13, 1990
MSA	NA	800507(SWA)	Jun 13, 1980	080507SWA	Jun 13, 1990
MSA	NG	TP61790	Aug 15, 2001	67156	
V (STYLIZED/V-GARD DESIGN) (2D)	NG	FTM2009430	Jan 14, 2009		
MSA	NI	2012002289	Feb 20, 2012		
MSA	NO	200815644	Dec 8, 2008	251232	Jun 3, 2009
MSA LOGO	NO	200109549	Aug 8, 2001	216056	Oct 24, 2002
V and Design (2D)	NO	200815732	Dec 15, 2009	250077	Mar 3, 2009
V-DESIGN (3D)	NO	201311759	Sep 27, 2013		
COMFO	NZ	161501	Oct 10, 1985	161501	Oct 18, 1985
MSA	NZ	139060	Sep 24, 1981	139060	Sep 24, 1981
V and Design (2D)	NZ	800521	Dec 15, 2008	800521	Dec 10, 2009
V-GARD	NZ	161502	Oct 10, 1985	B161502	Oct 10, 1985
MSA	OA	83619	Jun 24, 1994	34099	Aug 28, 1995
MSA	OM	72494	Jan 31, 2012	72494	Feb 6, 2013
MSA	PA	20854901	Jan 30, 2012	20854901	Jan 30, 2012
COMFO	PE	22636	Oct 1, 1996	32706	Jan 16, 1997
M-S-A	PE	NA	Mar 26, 1962	11233	Mar 26, 1972
M-S-A	PE	NA	Sep 17, 1951	45581	Sep 8, 1982
M-S-A	PE	NA	Oct 16, 1972	14976	Oct 16, 1972
MSA LOGO	PE	144044	Feb 2, 2002	82494	Aug 16, 2002
V and Design (2D)	PE	376807	Dec 16, 2008	151059	Apr 20, 2009
V-GARD	PE	3288	May 4, 1978	18346	May 4, 1978
ADVANTAGE	PE	540267	Jul 16, 2013		
V-DESIGN (3D)	PE	551997	Oct 23, 2013		
MSA	PG	70333	Mar 9, 2012	70333	Mar 9, 2012
MSA LOGO	PH	95236PN	Sep 14, 1994	66587	Nov 25, 1998
MSA LOGO	PH	95237	Sep 14, 1994	66287	Nov 4, 1998
MSA LOGO	PH	95238PN	Sep 14, 1994	95238	May 21, 2004
MSA LOGO	PH	95235PN	Sep 14, 1994	95235	May 21, 2004
V and Design (2D)	PH	42008015224	Dec 18, 2008	42008015224	Jun 15, 2009
V-GARD	PH	42002004270	May 29, 2002	42002004270	Oct 16, 2006
MSA LOGO	PL	267868	Nov 7, 1968	51803	Nov 7, 1968
MSA	PT	212593	Jul 17, 1981	212593	Dec 12, 1988
MSA	PT	212594	Jul 17, 1981	212594	Dec 12, 1988
MSA	PY	456892011	Oct 25, 2011	381015	May 31, 2013
V-GARD	PY	456912011	Oct 25, 2011		
V (STYLIZED/V-GARD DESIGN) (2D)	PY	456902011	Oct 25, 2011	382004	Jun 21, 2013
V-DESIGN (3D)	PY	46146	Oct 4, 2013		

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TITLE	COUNTRY	APPLICATION NUMBER	APPLICATION DATE	REGISTRATION NUMBER	REGISTRATION DATE
MSA	QA	74114	Apr 11, 2012		
MSA LOGO	RO	NA	Nov 7, 1968	5930	Nov 7, 1968
MSA LOGO	RS	z83798	Dec 13, 1968	18601	Jul 22, 1970
MSA LOGO	RU	51734	Oct 14, 1968	38023	Oct 14, 1978
V (STYLIZED/V-GARD DESIGN) (2D)	RU	2008738855	Dec 16, 2008	394885	Nov 30, 2009
V (STYLIZED/V-GARD DESIGN) (2D)	SA	143173	Apr 29, 2009	127630	Jan 3, 2009
MSA	SA	178595	Feb 15, 2012		
MSA LOGO	SE	516474	Nov 6, 1974	157143	Oct 15, 1976
MSA	SG	82490	Oct 9, 1979	T7982490E	Oct 9, 1979
V DESIGN (2D)	SG	T0818094J	Dec 29, 2008	T0818094J	Oct 15, 2009
V-GARD	SG	T1004482Z	Apr 14, 2010	T1004482Z	Jul 23, 2010
V-Design (3D)	SG	T0907173H	Jul 1, 2009	T0907173H	Jan 3, 2012
MSA Logo	SI	Z9471441	Oct 26, 1994	9471441	Mar 23, 1998
MSA LOGO	SK	159985	Oct 10, 1968	159985	Oct 22, 1970
MSA	SR	23627	Jan 17, 2012		
MSA	SV	20120162171	Jan 6, 2012	00203	Nov 21, 2012
MSA	SZ	NA	Feb 6, 1993	141976	Feb 6, 1993
MSA	TH	771513	Jun 29, 2010		
V (STYLIZED/V-GARD DESIGN) (2D)	TH	720082	Jan 23, 2009		
V DESIGN 2D	TH	720082	Dec 12, 2008	314806	Jan 23, 2009
MSA LOGO	TJ	93000036	Dec 15, 1993	20	Dec 15, 1993
MSA LOGO	TM	135	Sep 23, 1994	788	Jul 29, 1997
V-GARD	TR	201151225	Jun 16, 2011		
MSA	TR	201151232	Jun 16, 2011		
V and Design (2D)	TR	200907999	Feb 18, 2009	200907999	Jan 29, 2010
MSA LOGO	TT	37806	Oct 10, 2006	37806	Oct 10, 2006
MSA	TW	82662	Jul 1, 1976	82662	Jul 1, 1976
MSA	TW	82956	Jul 1, 1976	82956	Jul 1, 1976
MSA	TW	83093	Jul 1, 1976	83093	Jul 1, 1976
MSA	TW	82932	Jul 1, 1976	82932	Jul 1, 1976
MSA	TW	82728	Jul 1, 1976	82728	Jul 1, 1976
MSA	TW	86006215	Feb 4, 1997	907598	Oct 1, 2000
V and Design (2D)	TW	98002308	Jan 20, 2009	1381663	Oct 16, 2009
V-GARD	TW	86006217	Feb 4, 1997	787029	Dec 1, 1997
V-GARD	TW	99016133	Apr 9, 2010	1441289	Dec 1, 2010
MSA	TY	TZT201228	Jan 12, 2013		
MSA	TZ	TZT201228	Jan 13, 2012		
MSA	TZ	ZNT201227	Jan 17, 2012	ZNT201227	Jan 17, 2012
MSA LOGO	UA	4222	Mar 31, 1994	4222	Oct 14, 1968
ADVANTAGE	US	74244982	Feb 10, 1992	1828785	Mar 29, 1994
CHEMOX	US	71509588	Sep 23, 1946	427183	Jan 28, 1947
CHILLGARD	US	74036152	Feb 28, 1990	1655289	Sep 3, 1991

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TITLE	COUNTRY	APPLICATION NUMBER	APPLICATION DATE	REGISTRATION NUMBER	REGISTRATION DATE
COMFO (Stylized)	US	71352985	Jun 21, 1934	318449	Oct 23, 1934
COMFO CLASSIC	US	74443194	Oct 4, 1993	1892612	May 2, 1995
COMFO ELITE	US	74060003	May 17, 1990	1641134	Apr 16, 1991
COMFO ELITE and Design	US	74060004	May 17, 1990	1641135	Apr 16, 1991
COMFO-CAP	US	74543416	Jun 28, 1994	1914682	Aug 29, 1995
CONFIDENCE PLUS	US	75007030	Oct 16, 1995	2289150	Oct 26, 1999
COOLBAND	US	71436356	Sep 25, 1940	393632	Feb 24, 1942
CUSTOM AIR V	US	74444678	Oct 6, 1993	1858457	Oct 18, 1994
DAN	US	73574813	Dec 23, 1985	1402026	Jul 22, 1986
ECONO-CAL	US	75320813	Jul 8, 1997	2220989	Jan 26, 1999
ESP	US	74285610	Jun 17, 1992	1798583	Oct 12, 1993
ETOX	US	74342196	Dec 22, 1992	1997773	Sep 3, 1996
EXPLOSIMETER	US	71434454	Jul 29, 1940	383245	Nov 26, 1980
FAS-TRAC	US	73833161	Oct 23, 1989	1616520	Oct 9, 1990
FIXED-CROWN	US	72088246	Dec 30, 1959	712890	Mar 21, 1961
FLAMEGARD	US	74366876	Mar 11, 1993	1849131	Aug 9, 1994
GAS MISER	US	75282657	Apr 25, 1997	2233330	Mar 23, 1999
GASCOPE	US	74698442	Jul 6, 1995	1984074	Jul 2, 1996
GASCOPE and Design	US	71673042	Sep 10, 1954	613107	Sep 27, 1955
HOPCALITE	US	73679689	Aug 13, 1987	1530415	Mar 21, 1989
LOWRIDER	US	74443196	Oct 4, 1993	1924477	Oct 3, 1995
MERSORB (Stylized)	US	71448571	Nov 12, 1941	393972	Mar 10, 1942
MILLENNIUM	US	75216027	Dec 19, 1996	2272657	Aug 24, 1999
MINESPOT	US	75318607	Jul 2, 1997	2280368	Sep 28, 1999
MiniOX (STYLIZED)	US	73548533	Jul 17, 1985	1382180	Feb 11, 1986
MSA	US	73271717	Jul 25, 1980	1323806	Mar 5, 1985
MSA	US	73566592	Nov 4, 1985	1429044	Feb 17, 1987
MSA	US	74228115	Dec 9, 1991	1728169	Oct 27, 1992
MSA	US	78974615	Sep 14, 2006	3258817	Jul 3, 2007
M-S-A	US	71215582	Jun 10, 1925	204301	Oct 13, 1925
MSA and Design	US	73277854	Sep 15, 1980	1325475	Mar 19, 1985
MSA and Design	US	73271718	Jul 25, 1980	1323807	Mar 5, 1985
MSA and Design	US	73361546	Apr 26, 1982	1246820	Aug 2, 1983
MSA OMEGA	US	74591928	Oct 28, 1994	1921812	Sep 26, 1995
MSA OMEGA and Design	US	74596597	Nov 3, 1994	1923503	Oct 3, 1995
MSA SAFETY EQUIPMENT HEADQUARTERS and Design	US	71687309	May 11, 1955	643111	Mar 26, 1957
MSA THE SAFETY COMPANY and Design	US	76689044	Apr 28, 2008	3596959	Mar 31, 2009
MSA U	US	77638086	Dec 22, 2008	3654134	Jul 14, 2009
OPTIMAIR	US	74408431	Jun 30, 1993	1840385	Jun 21, 1994
PORTAIRE	US	74546833	Jul 7, 1994	2131554	Jan 27, 1998
PREMAIRE	US	74284768	Jun 11, 1992	1753734	Feb 23, 1993
PULSECHECK	US	75237425	Feb 6, 1997	2236088	Mar 30, 1999
QUAD GAS	US	74365896	Mar 5, 1993	1824995	Mar 8, 1994

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TITLE	COUNTRY	APPLICATION NUMBER	APPLICATION DATE	REGISTRATION NUMBER	REGISTRATION DATE
QUALITY IS INSTRUMENTAL TO OUR BUSINESS	US	74565796	Aug 23, 1994	1947704	Jan 9, 1996
QUICK-FILL	US	74165961	May 13, 1991	1746336	Jan 12, 1993
QUICKLIT	US	74667272	Apr 24, 1995	1997648	Aug 27, 1996
RESPONSE	US	74532524	Jun 2, 1994	1900617	Jun 20, 1995
SHORTSTACK	US	74675503	May 15, 1995	2024633	Dec 17, 1996
SIGHT-GARD	US	72327339	May 15, 1969	901792	Nov 3, 1970
SIGHTGARD (STYLIZED)	US	72371090	Sep 18, 1970	924231	Nov 23, 1971
SKULLGARD	US	72041557	Nov 29, 1957	672544	Jan 13, 1959
SOFTFEEL	US	74461383	Nov 12, 1993	1932124	Oct 31, 1995
SPARKFOE	US	75186006	Oct 22, 1996	2112162	Nov 11, 1997
SPEED-ON	US	75316052	Jun 27, 1997	2237642	Apr 6, 1999
SQUIRT	US	74656260	Mar 29, 1995	2014491	Nov 5, 1996
STAZ-ON	US	74461382	Nov 12, 1993	1881942	Mar 7, 1995
STEALTH	US	74485010	Jan 31, 1994	2802582	Jan 6, 2004
SUPER V	US	75269801	Apr 7, 1997	2220905	Jan 26, 1999
THERMALGARD	US	74305550	Aug 17, 1992	1853514	Sep 13, 1994
TOPGARD	US	74640547	Mar 1, 1995	1949069	Jan 16, 1996
TOXGARD	US	73167653	Apr 24, 1978	1114434	Mar 6, 1979
ULTIMA	US	74504137	Mar 22, 1994	1928702	Oct 17, 1995
ULTRA ELITE	US	74494283	Feb 25, 1994	1934121	Nov 7, 1995
ULTRA FILTER	US	72063171	Nov 25, 1958	679694	Jun 2, 1959
ULTRA-TWIN	US	73115230	Feb 9, 1977	1073951	Sep 27, 1977
V (STYLIZED/V-GARD DESIGN) (2D)	US	73296605	Feb 10, 1981	1259212	Nov 29, 1983
WILDLAND	US	75122262	Jun 19, 1996	2193016	Oct 6, 1998
ZERO HOOD	US	72064480	Dec 17, 1958	697488	May 10, 1960
V-GARD	US	73031818	Sep 12, 1974	1037320	Apr 6, 1976
SUPREMA	US	78042767	Jan 11, 2001	2803508	Jan 6, 2004
1 TOUCH	US	78365492	Feb 10, 2004	2974503	Jul 19, 2005
660C METRO	US	73426615	May 19, 1983	1310855	Dec 25, 1984
880 TRADITION	US	78269730	Jul 2, 2003	2978989	Jul 26, 2005
AFFINITY	US	75007121	Oct 6, 1995	2080050	Jul 15, 1997
AIRHAWK	US	78096675	Dec 5, 2001	2740805	Jul 22, 2003
ALTAIR	US	78595154	Mar 25, 2005	3102310	Jun 6, 2006
APTURA	US	78199656	Jan 3, 2003	2849665	Jun 1, 2004
ARCSAFE	US	78632407	May 18, 2005	3122150	Jul 25, 2006
AUTO-CHANGE	US	78593522	Mar 23, 2005	3288733	Sep 4, 2007
BUCKET-O-SAFETY	US	75714644	May 27, 1999	2341165	Apr 11, 2000
BUTTON	US	75877236	Dec 21, 1999	2538581	Feb 12, 2002
CHEMGARD	US	76255715	May 11, 2001	2629318	Oct 1, 2002
CLEARCOMMAND	US	76023973	Apr 12, 2000	2501053	Oct 23, 2001
COMMANDO HP3	US	76334385	Nov 5, 2001	2585371	Jun 25, 2002
DEFENDER	US	75808988	Sep 27, 1999	2460405	Jun 12, 2001
DURA SOURCE	US	76692706	Sep 9, 2008	3694493	Oct 13, 2009

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TITLE	COUNTRY	APPLICATION NUMBER	APPLICATION DATE	REGISTRATION NUMBER	REGISTRATION DATE
DYNA-GLIDE	US	75388956	Nov 12, 1997	2416113	Dec 26, 2000
DYNA-HOIST	US	75233187	Jan 29, 1997	2312777	Feb 1, 2000
DYNA-LINE	US	75733770	Jun 22, 1999	2350068	May 16, 2000
DYNA-LOCK	US	73386478	Sep 20, 1982	1274170	Apr 17, 1984
DYNESCAPE	US	75233177	Jan 29, 1997	2149078	Apr 7, 1998
DYNEVAC	US	73520665	Feb 4, 1985	1353846	Aug 13, 1985
EVOLUTION	US	75883211	Dec 29, 1999	2450247	May 8, 2001
EVOTECH	US	77759412	Jun 15, 2009	3842733	Aug 31, 2010
FIREHAWK	US	76157426	Nov 1, 2000	2882097	Sep 7, 2004
FIREHAWK (Stylized)	US	76612056	Sep 14, 2004	3124108	Aug 1, 2006
FIRESLAYER	US	75439374	Feb 24, 1998	2296862	Nov 30, 1999
FLEXI-FILTER	US	75512353	Jul 2, 1998	2341907	Apr 11, 2000
FP PRO	US	78038853	Dec 12, 2000	2891802	Oct 6, 2004
GALAXY	US	78427974	Jun 1, 2004	3096566	May 23, 2006
GASGARD	US	76069726	Jun 14, 2000	2750813	Aug 12, 2003
GLAREGARD	US	77809360	Aug 20, 2009	3770970	Apr 6, 2010
GRAVITY	US	77956429	Mar 11, 2010	3863786	Oct 19, 2010
HAZMATCAD	US	77124152	Mar 7, 2007	3459825	Jul 1, 2008
HORIZON	US	75233930	Jan 30, 1997	2142400	Mar 10, 1998
HOUSTON N6A	US	76334380	Nov 5, 2001	2741117	Jul 29, 2003
ICM	US	75917368	Feb 14, 2000	2605393	Aug 6, 2002
INVADER 664	US	78428361	Jun 2, 2004	3094052	May 16, 2006
KWIK-DRAW	US	73834582	Oct 30, 1989	1603532	Jun 26, 1990
left/RIGHT	US	77519837	Jul 11, 2008	3582864	Mar 3, 2009
LOGO EXPRESS	US	76429822	Jul 12, 2002	2734356	Jul 8, 2003
LUMINATOR	US	75262688	Mar 24, 1997	2257647	Jun 29, 1999
LYNX	US	76450796	Sep 18, 2002	2873340	Aug 17, 2004
MICH	US	78604886	Apr 8, 2005	3116616	Jul 18, 2006
Miscellaneous Design (Overhead View of Headgear)	US	77644639	Jan 7, 2009	3762261	Mar 23, 2010
MODCON	US	77382129	Jan 28, 2008	3684927	Sep 22, 2009
MULTIFLEX	US	75426579	Jan 30, 1998	2242690	May 4, 1999
MULTIGARD	US	77307731	Oct 18, 2007	3449041	Jun 17, 2008
NEW YORKER N5A	US	76334382	Nov 5, 2001	2588500	Jul 2, 2002
NIGHTFIGHTER	US	78096683	Dec 5, 2001	2792892	Dec 9, 2003
OPTIFILTER (Stylized)	US	76667113	Oct 10, 2006	3232274	Apr 24, 2007
PIR	US	76277071	Jun 27, 2001	2722266	Jun 3, 2003
POWER BUILDER	US	75472032	Apr 22, 1998	2286702	Oct 12, 1999
PRIMAX	US	77677808	Feb 25, 2009	4135819	May 1, 2012
PULLOVER	US	75235328	Feb 3, 1997	2170976	Jul 7, 1998
QUICKCHECK	US	78837831	Mar 15, 2006	3270318	Jul 24, 2007
QUIK CHEK	US	78918022	Jun 27, 2006	3237131	May 1, 2007
RESPONDER	US	77030123	Oct 26, 2006	3409837	Apr 8, 2008
RESPONSE	US	78123515	Apr 23, 2002	2960704	Jun 7, 2005
SAFE ESCAPE	US	78557990	Feb 1, 2005	3353337	Dec 11, 2007

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PATENT
REEL: 041245 FRAME: 0715

TITLE	COUNTRY	APPLICATION NUMBER	APPLICATION DATE	REGISTRATION NUMBER	REGISTRATION DATE
SAFEMTX	US	78626458	May 10, 2005	3128144	Aug 8, 2006
SAFESITE	US	78259373	Jun 6, 2003	2955686	May 24, 2005
SAFETY ARMOR	US	78883613	May 15, 2006	3782870	Apr 27, 2010
SAFETY AT HEIGHTS	US	77641297	Dec 30, 2008	3608008	Apr 14, 2009
SHORT-STOP	US	75541420	Aug 24, 1998	2308017	Jan 11, 2000
SIRIUS	US	78206675	Jan 24, 2003	2870576	Aug 3, 2004
SKYLINK	US	78557867	Feb 1, 2005	3080899	Apr 11, 2006
SMOOTHDOME	US	77048763	Nov 21, 2006	3285133	Aug 28, 2007
SOLARIS	US	78197638	Dec 24, 2002	2841794	May 11, 2004
SOUND CONTROL (Stylized)	US	76699480	Sep 15, 2009	3769657	Apr 6, 2010
SOUND CONTROL and Design	US	76653383	Jan 17, 2006	3173003	Nov 21, 2006
SPOTLIGHT ON SAFETY	US	75441443	Feb 26, 1998	2243900	May 4, 1999
STELLAR	US	78043670	Jan 18, 2001	2593053	Jul 9, 2002
STRUCTURAL 360S	US	76334386	Nov 5, 2001	2598002	Jul 23, 2002
SUPREME	US	77634228	Dec 16, 2008	3747928	Feb 9, 2010
TECHNACURV	US	78153692	Aug 13, 2002	2855063	Jun 15, 2004
TEMPGARD	US	73658699	May 4, 1987	1469682	Dec 22, 1987
THE SAFETY COMPANY	US	77686388	Mar 9, 2009	3649088	Jun 30, 2009
THERMAL-E	US	77654414	Jan 22, 2009	3796870	Jun 1, 2010
TRANSAIRE	US	75610613	Dec 22, 1998	2369457	Jul 18, 2000
TRIGARD	US	77588160	Oct 8, 2008	3608857	Apr 21, 2009
ULTRAVUE	US	76568555	Jan 7, 2004	2954397	May 24, 2005
UNIPRO	US	75556321	Sep 18, 1998	2369381	Jul 18, 2000
V (Stylized)	US	85366641	Jul 8, 2011	4215142	Sep 25, 2012
V-GARD	US	85343303	Jun 10, 2011	4211123	Sep 18, 2012
WORKMAN (Supplemental Reg)	US	78846888	Mar 27, 2006	3257311	Jun 26, 2007
X3 (Stylized)	US	76602295	Jul 14, 2004	3029949	Dec 13, 2005
XCELL	US	77625300	Dec 3, 2008	3880541	Nov 23, 2010
Z GARD	US	78545714	Jan 11, 2005	3083878	Apr 18, 2006
CAIRNSHELMETS	US	75657635	Mar 10, 1999	2324211	Feb 29, 2000
MSA	US	85466024	Nov 7, 2011	4356246	Jun 25, 2013
TM V-GARD 500 DESIGN	US	85243611	Feb 16, 2011	4134026	May 1, 2012
MSA	US	71441830	Mar 22, 1941	404551	Dec 7, 1943
WORKMAN (Principal Reg)	US	86100367	Oct 24, 2013		
CAIRNS	US	74701179	Sep 16, 1997	2096381	Sep 16, 1997
CAIRNS	US	75657636	Mar 10, 1999	2332136	Mar 21, 2000
V-Design (3D) US	US	86075617	Sep 26, 2013		
THERMATEK	US	76127437	Sep 13, 2000	2867095	Jul 27, 2004
M-S-A	UY	288477		372324	Sep 16, 1944
MSA LOGO	UZ	529	Oct 14, 1968	312	Jan 26, 1994
V-Gard	UZ	MGU20121477	Jul 18, 2012	MGU24146	May 31, 2013
V (STYLIZED/V-GARD DESIGN)	UZ	MGU20121478	Jul 18, 2012	MGU24059	Jul 18, 2012
COMFO	VE	1694596	Oct 10, 1996	P201790	Oct 31, 1997
M-S-A	VE	NA	Oct 11, 1941	13221	Oct 11, 1941

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PATENT
REEL: 041245 FRAME: 0716

TITLE	COUNTRY	APPLICATION NUMBER	APPLICATION DATE	REGISTRATION NUMBER	REGISTRATION DATE
MSA	VE	6629	Oct 3, 1957	35512F	Sep 26, 1958
M-S-A	VE	6628	Oct 3, 1958	35701F	Oct 14, 1958
MSA LOGO	VE	1902896	Nov 7, 1996	P205756	Jun 12, 1998
MSA LOGO	VE	2001017921	Oct 4, 2001	P242519	Nov 11, 2002
MSA	VN	4200107683	Apr 25, 2011	194520	Oct 25, 2012
AFFINITY	ZA	200416097	Sep 14, 2004	200416097	Oct 25, 2010
CHEMGARD	ZA	345359	May 3, 1960	601663	May 3, 1960
MSA	ZA	796159	Nov 19, 1979	796159	Nov 19, 1979
MSA	ZA	820746	Feb 2, 1982	820746	Feb 2, 1982
MSA	ZA	820747	Feb 2, 1982	820747	Feb 2, 1982
MSA	ZA	820745	Feb 2, 1982	820745	Feb 2, 1982
MSA	ZA	820749	Feb 2, 1982	820749	Feb 2, 1982
MSA	ZA	820748	Feb 2, 1982	820748	Feb 2, 1982
MSA	ZA	943055	Mar 23, 1994	199403055	Oct 27, 2003
V (STYLIZED/V-GARD DESIGN) (2D)	ZA	200100049	Jan 2, 2001	200100049	Nov 17, 2005
V-GARD	ZA	200218804	Nov 28, 2002	200218804	Nov 2, 2006
SAVOX	ZA	200103656	Mar 2, 2001	200103656	Dec 19, 2005
V-DESIGN (3D)	ZA	201326924	Sep 27, 2013		
MSA	ZM	4892001	Aug 8, 2001	4892001	Aug 8, 2001
V (STYLIZED/V-GARD DESIGN) (2D)	ZM	10412008	Dec 24, 2008	10412008	Jan 7, 2010
V-GARD	ZM	3812010	May 28, 2010	3812010	Mar 29, 2011
V (STYLIZED/V-GARD DESIGN) (2D)	ZW	142009	Jan 14, 2009	142009	Oct 19, 2009
V-GARD	ZW	3892010	Apr 23, 2010	04232010	Apr 23, 2010
MSA	ZW	222012	Jan 11, 2012		
MSA	ZZ	ZNT201227	Jan 11, 2012	ZNT201227	Jan 17, 2012

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PATENT
REEL: 041245 FRAME: 0717

Schedule B - Patents

TITLE	COUNTRY	APPLICATION NO.	APPLICATION DATE	PATENT NO.	GRANT DATE
Adjustable Headband	AR	050104756	11-Nov-2005	AR051239B4	30-Jun-10
Protective Helmet	AT	078110780	3-Aug-2007	EP2061352B1	8-Jun-11
Self-Retracting Lanyard And Braking Mechanism With Pawl Lockout	AU	2007225417	16-Jan-2007	2007225417	15-Mar-12
Modular System And Apparatus For Testing Gas Detectors	AU	2005325232	14-Nov-2005	2005325232	6-Jan-11
Pivot Joint For Faceshield Assembly	AU	6914800	17-Aug-2000	770842	17-Jun-04
Catalytic Sensor	AU	2001285148	21-Aug-2001	2001285148	3-Mar-06
Connectors, Instrument Assemblies And Methods Of Connecting Or Disconnecting Electrical Connections Under Power	AU	2003233692	23-May-2003	2003233692	5-Jul-07
Instrument Assembly Systems, Housing And Methods Of Mounting Instrument Assemblies	AU	2003268297	2-Sep-2003	2003268297	20-Mar-08
Full Body Harness For Fall Arrest	AU	2003275158	23-Sep-2003	2003275158	24-Sep-09
Pressure Regulator Assembly	AU	2004251037	12-May-2004	2004251037	21-Oct-10
Communications Device For A Protective Helmet	AU	2004255185	25-Jun-2004	2004255185	27-Aug-09
Photoacoustic Gas Sensor Utilizing Diffusion	AU	2004265882	12-May-2004	2004265882	27-Nov-08
Sensor Having A Communication Device, Sensor Communication System And Method Of Communicating Information From A Sensor	AU	2004304237	14-Sep-2004	2004304237	5-Mar-09
Photoionization Detectors, Ionization Chambers For Use In Photoionization Detectors, And Methods Of Use Of Photoionization Detectors	AU	2005230450	30-Mar-2005	2005230450	1-Apr-10
Adjustable Headband	AU	2005290282	7-Jun-2005	2005290282	27-May-10
Adjustable Headband	AU	2005307060	4-Aug-2005	2005307060	28-Oct-10
Devices, Systems And Methods For Operation Of Breathing Apparatus In Multiple Modes	AU	2007241149	16-Jan-2007	2007241149	29-Sep-11
Photoacoustic Gas Sensor	AU	2007349840	1-Nov-2007	2007349840	19-Jul-12
Gas Sensor	AU	20000021554	23-Nov-1999	760554	28-Aug-03
Gas Sensors and Methods of Controlling Light Sources Therefor	AU	2008271056	27-Oct-2009	2008 271056	25-Jun-13
Protective Helmet	AU	2007295033	3-Aug-2007	2007295033	2-Aug-12
Devices, Systems & Methods for Emergency Descent From a Height	AU	2005238078	27-Apr-2005	2005238078	2-Feb-12
Method, Apparatus, And Arrangement For A Lifeline System	AU	2010249942	6-May-2010		
Sensor Comprising Vent Member	AU	2010313361	28-Oct-2010		
Combustible Gas Sensors Including Integral Support Structures And Combustible Gas Sensor With Multiple Active Elements	AU	2010313245	29-Oct-2010		
Electrochemical Sensors Including Electrodes With Difusion Barriers	AU	2010313417	28-Oct-2010		
Chest Strap Arrangement For An Attachable Arrangement	AU	2011207650	19-Jan-2011		

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PATENT
REEL: 041245 FRAME: 0718

TITLE	COUNTRY	APPLICATION NO.	APPLICATION DATE	PATENT NO.	GRANT DATE
Attachable Arrangement	AU	2011209912	18-Jan-2011		
Fall Protection Arrangement	AU	2011252006	10-May-2011		
Personal Fall Limiter Arrangement and User Connection Arrangement Therefor	AU		1-Feb-2012		
Visor Interface	AU	142882011	26-Sep-2011	338869	12-Oct-11
Visor Frame	AU	142892011	26-Sep-2011	338870	12-Oct-11
Chin Guard	AU	142902011	26-Sep-2011	338871	12-Oct-11
Chin Guard	AU	142912011	26-Sep-2011	338872	12-Oct-11
Visor	AU	142922011	26-Sep-2011	338873	12-Oct-11
Visor	AU	142932011	26-Sep-2011	338874	12-Oct-11
Visor	AU	142942011	26-Sep-2011	338875	12-Oct-11
Visor	AU	142952011	26-Sep-2011	338876	12-Oct-11
Visor	AU	142962011	26-Sep-2011	338877	12-Oct-11
Visor	AU	142972011	26-Sep-2011	338878	12-Oct-11
Visor	AU	142982011	26-Sep-2011	338879	12-Oct-11
Visor Frame	AU	142992011	26-Sep-2011	338880	12-Oct-11
Visor	AU	143002011	26-Sep-2011	338881	12-Oct-11
Visor	AU	143012011	26-Sep-2011	338882	12-Oct-11
Visor Interface	AU	105062012	2-Feb-2012	341207	27-Feb-12
Modular System And Apparatus For Testing Gas Detectors - SISTEMA MODULAR E APARELHO PARA TESTAR DETECTORES DE GÁS	BR	PI05198305	14-Nov-2005		
Catalytic Sensor - SENSOR CATALITICO	BR	PI01149229	21-Aug-2001		
Respirator Facepiece - PEÇA DE FACE PARA RESPIRADOR	BR	PI02095491	10-May-2002	PI0209549-1	24-Jan-12
Connectors, Instrument Assemblies And Methods Of Connecting Or Disconnecting Electrical Connections Under Power - CONECTORES, MONTAGENS DE INSTRUMENTOS, E METODOS DE CONEXAO E DESCONEXÃO DE CONEXÕES ELETRICAS SOB FORÇA	BR	PI03049612	23-May-2003		
Instrument Assembly Systems, Housing And Methods Of Mounting Instrument Assemblies - SISTEMAS DE CONJUNTO DE INSTRUMENTOS, ALOJAMENTOS E MÉTODOS PARA A MONTAGEM DE CONJUNTOS DE INSTRUMENTOS	BR	PI03140407	2-Sep-2003		
Sensor Having A Communication Device, Sensor Communication System And Method Of Communicating Information From A Sensor - SENSOR DE GÁS POR INFRAVERMELHO POSSUINDO UM DISPOSITIVO DE COMUNICAÇÃO E MÉTODO DE COMUNICAÇÃO DA INFORMAÇÃO DE CALIBRAGEM DE UM SENSOR DE GÁS POR INFRAVERMELHO	BR	PI04173805	14-Sep-2004		

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PATENT
REEL: 041245 FRAME: 0719

TITLE	COUNTRY	APPLICATION NO.	APPLICATION DATE	PATENT NO.	GRANT DATE
Photoionization Detectors, Ionization Chambers For Use In Photoionization Detectors, And Methods Of Use Of Photoionization Detectors - DETECTOR DE FOTOIONIZAÇÃO	BR	PI05090911	30-Mar-2005		
Devices, Systems And Methods For Testing Gas Sensors And Correcting Gas Sensor Output - MÉTODOS, SISTEMAS E DISPOSITIVOS PARA TESTAR SENSORES DE GÁS E CORRIGIR SAÍDA DE SENSORES DE GÁS	BR	PI05106680A	28-Apr-2005		
Devices, Systems & methods for Emergency Descent from a Height - DISPOSITIVOS, SISTEMAS E MÉTODOS PARA DESCIDA DE EMERGÊNCIA A PARTIR DE UMA ALTURA	BR	PI05103339	27-Apr-2005		
Photoacoustic Gas Sensor	BR	PI07155581	1-Nov-2007		
Gas Sensors and Methods of Controlling Light Sources Therefor	BR	PI08098042	1-Jul-2008		
Shuttle Member, Lifeline System and Passing System	BR	PI10076735	6-May-2010		
Sensor, Method of Venting Gas and Container	BR	BR11201200084666	28-Oct-2010		
Combustible Gas Sensor and Method of Operating a Combustible Gas Sensor	BR	BR1120120084682	29-Oct-2010		
Electrochemical Sensors Including Electrodes With Difusion Barriers	BR	BR1120120084658	28-Oct-2010		
Chest Strap Arrangement	BR	BR1120120159356	19-Jan-2011		
Attaching Structure For An Attachable Arrangement	BR	BR1120120161997	19-Jan-2011		
Attachable Arrangement	BR	BR1120120159348	18-Jan-2011		
Facepiece With Open Port	BR	1120120204483	24-Jun-2011		
RESPIRATION SYSTEM, PRESSURE REGULATOR, METHOD OF PROVIDING INFORMATION TO A USER OF A BREATHING APPARATUS, RESPIRATION FACEPIECE	BR	BR1120120236571	24-Jun-2011		
Indicator Arrangement, Regulator Release Button And Breathing Apparatus	BR	BR1120120228919	1-Jul-2011		
Fall Protection Arrangement	BR	BR1120120265695	10-May-2011		
System and Adapter for use in Connection with a Protective Helmet and Method for Connecting Accessories to a Protective Helmet	BR	BR1120130180293	30-Mar-2012		
Method of Protecting a Sensor, System and Protective Enclosure for Use In Connection with a Sensor	BR	BR1120140010846	24-Jul-2012		
Personal Fall Limiter Arrangement and User Connection Arrangement Therefor	BR	BR1120130328266	1-Feb-2012		
Closed Path Infrared Sensor and Method for Detecting a gas	BR	BR1120140031207	12-Sep-2012		

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TITLE	COUNTRY	APPLICATION NO.	APPLICATION DATE	PATENT NO.	GRANT DATE
Configuration Applied to the Structure for a Visor	BR	DI71050680	4-Oct-2011	DI7105068-0	9-Oct-12
Configuration Applied to a Visor	BR	DI71050698	4-Oct-2011	DI7105069-8	9-Oct-12
Configuration Applied to a Chin Guard	BR	DI71050655	4-Oct-2011	DI7105065-5	9-Oct-12
Visor Interface	BR	BR3020120018218	5-Mar-2012		
Configuration Applied to a Visor	BR	DI71050701	4-Oct-2011	DI7105070.1	9-Oct-12
Self-Retracting Lanyard And Braking Mechanism With Pawl Lockout	CA	2646360	16-Jan-2007		
Modular System And Apparatus For Testing Gas Detectors	CA	2595120	14-Nov-2005	2595120	8-Jan-13
System And Method For Measuring Movement Of Objects	CA	2246412	12-Dec-1996	2246412	27-Nov-01
Safety Helmet Assembly	CA	2299593	25-Feb-2000	2299593	18-Sep-07
Catalytic Sensor	CA	2426420	21-Aug-2001	2426420	12-Oct-10
Electrochemical Sensor	CA	2455480	2-Aug-2002	2455480	27-Jul-10
Connectors, Instrument Assemblies And Methods Of Connecting Or Disconnecting Electrical Connections Under Power	CA	2486802	23-May-2003	2486802	13-Jul-10
Full Body Harness For Fall Arrest	CA	2500624	23-Sep-2003	2500624	20-Mar-12
Instrument Assembly Systems, Housing And Methods Of Mounting Instrument Assemblies	CA	2505835	2-Sep-2003	2505835	8-May-12
Photoacoustic Gas Sensor Utilizing Diffusion	CA	2505913	12-May-2004	2505913	24-Jul-12
Sensor Having A Communication Device, Sensor Communication System And Method Of Communicating Information From A Sensor	CA	2546761	14-Sep-2009		
Photoionization Detectors, Ionization Chambers For Use In Photoionization Detectors, And Methods Of Use Of Photoionization Detectors	CA	2562155	30-Mar-2005	2562155	23-Oct-12
Method and Device for Testing Gas Sensors and Correcting Gas Sensor Output	CA	2565763	28-Apr-2005	2565763	22-Jan-13
Devices, Systems And Methods For Operation Of Breathing Apparatus In Multiple Modes	CA	2650568	16-Jan-2007		
Photoacoustic Gas Sensor	CA	2667993	1-Nov-2007		
Gas Sensors and Methods of Controlling Light Sources Therefor	CA	2691376	1-Jul-2008		
Sensor Comprising Vent Member	CA	2774459	28-Oct-2010		
Combustible Gas Sensors Including Integral Support Structures And Combustible Gas Sensor With Multiple Active Elements	CA	2774467	29-Oct-2010		
Electrochemical Sensors Including Electrodes With Diffusion Barriers	CA	2774452	28-Oct-2010		
Infrared Sensor with Multiple Sources for Gas Measurement	CA		12-Sep-2012		

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PATENT
REEL: 041245 FRAME: 0721

TITLE	COUNTRY	APPLICATION NO.	APPLICATION DATE	PATENT NO.	GRANT DATE
Method, Apparatus, And Arrangement For A Lifeline System	CL	29102011	22-Jun-2011		
Adjustable Headband	CL	25452005	4-Aug-2005	296	29-Sep-05
Personal Fall Limiter Arrangement and User Connection Arrangement Therefor	CL	000602014	1-Feb-2012		
Self-Retracting Lanyard And Braking Mechanism With Pawl Lockout	CN	2007800092497	16-Jan-2007	ZL200780009249.7	7-Dec-11
Modular System And Apparatus For Testing Gas Detectors	CN	2005800466439	14-Nov-2005	ZL200580046643.9	4-May-11
Gas Sensors	CN	2008100958725	29-Jan-2001	ZL200810095872.5	6-Oct-10
Gas Sensors	CN	018060439	29-Jan-2001	ZL 01806043.9	1-Oct-08
System, Apparatus And Method For Dispensing Chemical Vapor	CN	2006800498701	18-Jul-2006	ZL 200680049870.1	3-Oct-12
Devices, Systems And Methods For Operation Of Breathing Apparatus In Multiple Modes	CN	2007800147324	16-Jan-2007	ZL 200780014732.4	21-Mar-12
Photoacoustic Gas Sensor	CN	2007800410841	1-Nov-2007	ZL200780041084.1	17-Oct-12
Gas Sensor	CN	998158518	23-Nov-1999	ZL 99815851.8	20-Oct-04
Respirator Facepieces	CN	028119738	10-May-2002	ZL 02811973.8	22-Nov-06
Electrochemical Sensor	CN	028158296	2-Aug-2002	ZL 02815829.6	12-Jul-06
Protective Hoods And Neck Seals For Use Therein	CN	038113554	24-Feb-2003	ZL03811355.4	27-May-09
Connectors, Instrument Assemblies And Methods Of Connecting Or Disconnecting Electrical Connections Under Power	CN	038158590	23-May-2003	ZL 03815859.0	1-Aug-07
Full Body Harness For Fall Arrest	CN	038237261	23-Sep-2003	ZL03823726.1	26-May-10
Instrument Assembly Systems, Housing And Methods Of Mounting Instrument Assemblies	CN	038208520	2-Sep-2003	ZL 03820852.0	26-Sep-07
Photoacoustic Gas Sensor Utilizing Diffusion	CN	200480011301	12-May-2004	ZL 2004 8001130.1	24-Feb-10
Communications Device For A Protective Helmet	CN	2004800173804	25-Jun-2004	ZL 200480017380.4	24-Jun-09
Pressure Regulator Assembly	CN	2004800173838	12-May-2004	ZL200480017383.8	23-May-12
Infrared Gas Sensor Having A Communication Device, Sensor Communication System And Method Of Communicating Information From A Sensor	CN	200480035226	14-Sep-2004	ZL 200480035226	18-Aug-10
Devices, Systems And Methods For Generating Electricity From Gases Stored In Containers Under Pressure	CN	2005800094671	30-Mar-2005	CN 1933874B	1-Feb-12
Photoionization Detectors, Ionization Chambers For Use In Photoionization Detectors, And Methods Of Use Of Photoionization Detectors	CN	2005800094667	30-Mar-2005	ZL 200580009466.7	7-Oct-09
Devices, Systems And Methods For Testing Gas Sensors And Correcting Gas Sensor Output	CN	2005800143964	28-Apr-2005	CN1950695B	18-May-11
Devices, Systems & Methods for Emergency Descent From a Height	CN	2005800126723	27-Apr-2005	ZL 200580012672.3	18-May-11

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PATENT
REEL: 041245 FRAME: 0722

TITLE	COUNTRY	APPLICATION NO.	APPLICATION DATE	PATENT NO.	GRANT DATE
Protective Helmet	CN	2007800338849	3-Aug-2007	ZL 20078003384.9	2-Jan-13
Gas Sensors and Methods of Controlling Light Sources Therefor	CN	2008800221030	1-Jul-2008	ZL 200880022103.0	8-May-13
Spectacle Frame Mount For Face Mask	CN	2010800106129	22-Jan-2010	ZL 201080010612.9	8-Jan-14
Method, Apparatus, And Arrangement For A Lifeline System	CN	2010800225857	18-Nov-2011		
Sensor Comprising Vent Member	CN	2010800491357	28-Oct-2010		
Combustible Gas Sensors Including Integral Support Structures And Combustible Gas Sensor With Multiple Active Elements	CN	2010800491408	29-Oct-2010		
Electrochemical Sensors Including Electrodes With Difusion Barriers	CN	2010800491412	28-Oct-2010		
Photoacoustic Gas Sensor	CN	201200852074	20-Mar-2012		
Chest Strap Arrangement For An Attachable Arrangement	CN	2011800064794	19-Jan-2011		
Attaching Structure For An Attachable Arrangement	CN	2011800064718	19-Jan-2011		
Attachable Arrangement	CN	2011800063429	18-Jan-2011		
Catalytic Sensor	CN	018181090	21-Aug-2001	ZL01818109.0	21-Sep-05
Facepiece With Open Port	CN	2011800135893	24-Jun-2011		
Data Communication And Displays For Breathing Apparatus Facepieces And Pressure Regulators	CN	201180019041X	24-Jun-2011		
Indicator Arrangement, Regulator Release Button And Breathing Apparatus	CN	2011800148696	1-Jul-2011		
Fall Protection Arrangement	CN	2011800228972	10-May-2011		
Winch and Winch Bracket	CN	2013100873963	8-Mar-2013		
Helmet Accessory Adapter	CN	2012800055431	30-Mar-2012		
Protective Enclosure For Use With a Sensor for Detecting An Analyte	CN		24-Jul-2012		
Personal Fall Limiter Arrangement and User Connection Arrangement Therefor	CN	2012800342718	1-Feb-2012		
Infrared Sensor with Multiple Sources for Gas Measurement	CN		12-Sep-2012		
Visors	CN	2011303495145	8-Oct-2011	ZL 201130349514.5	26-Dec-12
Visor Frame	CN	2011303500603	8-Oct-2011	ZL201130350060.3	11-Apr-12
Chin Guard	CN	2011303500586	8-Oct-2011	ZL201130350058.6	27-Jun-12
Visor	CN	2011303500571	8-Oct-2011	ZL201130350057.1	25-Apr-12
Visor Interface	CN	2012300328037	20-Feb-2012	ZL 201230032803.7	8-Aug-12
Protective Helmet	CZ	078110780	3-Aug-2007	2061352	8-Jun-11
Adjustable Headband	CZ	057842999	4-Aug-2005	1814415	3-Mar-10
Pivot Joint For Faceshield Assembly	DE	009575465	17-Aug-2000	60012342.1	21-Jul-04
Catalytic Sensor	DE	019642719	21-Aug-2001	60135922.4	24-Sep-08
Communications Device For A Protective Helmet	DE	047770474	25-Jun-2004	602004013317.5	23-Apr-08
Sensor Having A Communication Device, Sensor Communication System And Method Of Communicating Information From A Sensor	DE	047840947	14-Sep-2004	602004018186.2	3-Dec-08

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TITLE	COUNTRY	APPLICATION NO.	APPLICATION DATE	PATENT NO.	GRANT DATE
Protective Hoods And Neck Seals For Use Therein	DE	037136173	24-Feb-2003	60305909.0	7-Jun-06
Full Body Harness For Fall Arrest	DE	037594264	23-Sep-2003	60320274.8	9-Apr-08
Connectors, Instrument Assemblies And Methods Of Connecting Or Disconnecting Electrical Connections Under Power	DE	037291325	23-May-2003	60320988.2	14-May-08
System And Method For Pump Control And Fault Detection	DE	979109816	16-Oct-1997	69722648.4	4-Jun-03
Gas Sensor	DE	999658750	23-Nov-1999	69937578.9	14-Nov-07
Photoionization Detector	DE	057353997	30-Mar-2005	602005025990.2	19-Jan-11
Self-Retracting Lanyard And Braking Mechanism With Pawl Lockout	DE	077166296	16-Jan-2007	602007006165.2	28-Apr-10
Respirator Facepiece	DE	027317643	10-May-2002	60238834.1	5-Jan-11
Pressure Regulator Assembly	DE	047519848	12-May-2004	602004031111.1	19-Jan-11
Devices, Systems & Methods for Emergency Descent From a Height	DE	057412231	27-Apr-2005	602005025331.9	15-Dec-10
Electrochemical Sensor	DE	027634120	2-Aug-2002	60237976.8	13-Oct-10
Adjustable Headband	DE	057842999	4-Aug-2005	602005019771.0	3-Mar-10
Protective Helmet	DE	078110780	3-Aug-2007	602007015117.1	8-Jun-11
Devices, Systems And Methods For Generating Electricity From Gases Stored In Containers Under Pressure	DE	057308116	30-Mar-2005	602005027978.4	11-May-11
Devices, Systems And Methods For Operation Of Breathing Apparatus In Multiple Modes	DE	077489185	16-Jan-2007	602007027781.7	2-Jan-13
Visor Interface	EM	0019261220002	3-Oct-2011	001926122-0001/0014	18-Nov-11
Visor Interface	EM	0019924470001	15-Feb-2012	001992447-001	21-Feb-12
Visor Interface	EM	0019261220002	3-Oct-2011	001926122-0002	18-Nov-11
Self-Contained Breathing Apparatus Having A Personal Alert Safety System Integrated Therewith	EP	969455740	27-Nov-1996	0873158	4-Jul-01
Breathing Mask	EP	979162211	25-Mar-1997	0906037	24-Sep-03
System And Method For Pump Control And Fault Detection	EP	979109816	16-Oct-1997	0934463	4-Jun-03
Gas Sensor	EP	999658750	23-Nov-1999	1151285	14-Nov-07
Catalytic Sensor	EP	019642719	21-Aug-2001	1330640	24-Sep-08
Respirator Facepiece	EP	027317643	10-May-2002	1387715	5-Jan-11
Connector And Method Of Connecting Or Disconnecting Electrical Contacts	EP	037291325	23-May-2003	1512199	14-May-08
Instrument Assembly Systems, Housings and Methods of Mounting Instrument Assemblies	EP	037492535	2-Sep-2003		
Photoacoustic Gas Sensor Utilizing Diffusion	EP	047519830	12-May-2004		
Pressure Regulator Assembly	EP	047519848	12-May-2004	1638650	19-Jan-11
Communications Device For A Protective Helmet	EP	047770474	25-Jun-2004	1641361	23-Apr-08

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REEL: 041245 FRAME: 0724

TITLE	COUNTRY	APPLICATION NO.	APPLICATION DATE	PATENT NO.	GRANT DATE
Infrared Gas Sensor Having A Communication Device And Method Of Communicating Calibration Information From An Infrared Gas Sensor	EP	047840947	14-Sep-2004	1692500	3-Dec-08
Photoionization Detector	EP	057353997	30-Mar-2005	1733220	19-Jan-11
Devices, Systems And Methods For Generating Electricity From Gases Stored In Containers Under Pressure	EP	057308116	30-Mar-2005	1732652	11-May-11
Devices, Systems And Methods For Emergency Descent From A Height	EP	057412231	27-Apr-2005	1740272	15-Dec-10
Method And Device For Testing Gas Sensors And For Correcting Gas Sensor Output	EP	057410300	28-Apr-2005	1743165	24-Dec-08
Adjustable Headband	EP	057842999	4-Aug-2005	1814415	3-Mar-10
System, Apparatus And Method For Dispensing Chemical Vapor	EP	067879007	18-Jul-2006		
Photoacoustic Gas Sensor	EP	078734688	1-Nov-2007		
Pivot Joint For Faceshield Assembly	EP	009575465	17-Aug-2000	1217910	21-Jul-04
Respiratory Protective Device	EP	943025494	11-Apr-1994	0621056	18-Mar-98
Modular System And Apparatus For Testing Gas Detectors	EP	058257601	14-Nov-2005		
Devices, Systems And Methods Of Determining The Location Of Mobile Personnel	EP	097900716	6-Jul-2009		
System And Method For Measuring Movement Of Objects	EP	969436732	12-Dec-1996	0866949	20-Aug-03
Devices, Systems & Methods for Emergency Descent From a Height	EP	057412231	27-Apr-2005	1740272	15-Dec-10
Protective Helmet	EP	078110780	3-Aug-2007	2061352	8-Jun-11
Electrochemical Sensor	EP	027634120	2-Aug-2002	1419379	13-Oct-10
Gas Sensors and Methods of Controlling Light Sources Therefore	EP	087799169	1-Jul-2008		
Spectacle Frame Mount For Face Mask	EP	107021826	22-Jan-2010		
Method, Apparatus, And Arrangement For A Lifeline System	EP	107191777	6-May-2010		
Personal Navigation System And Associated Methods	EP	107394405	27-Jul-2010		
Sensor Comprising Vent Member	EP	107760217	28-Oct-2010		
Combustible Gas Sensors Including Integral Support Structures And Combustible Gas Sensor With Multiple Active Elements	EP	107910044	29-Oct-2010		
Electrochemical Sensors Including Electrodes With Diffusion Barriers	EP	107760183	28-Oct-2010		
Navigational System Initialization System, Process And Arrangement	EP	107791048	22-Oct-2010		
Chest Strap Arrangement For An Attachable Arrangement	EP	117023267	19-Jan-2011		
Attaching Structure For An Attachable Arrangement	EP	117014274	19-Jan-2011		
Attachable Arrangement	EP	117023234	18-Jan-2011		
Facepiece With Open Port	EP	117290205	24-Jun-2011		

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REEL: 041245 FRAME: 0725

TITLE	COUNTRY	APPLICATION NO.	APPLICATION DATE	PATENT NO.	GRANT DATE
Data Communication And Displays For Breathing Apparatus Facepieces And Pressure Regulators	EP	117295360	24-Jun-2011		
Indicator Arrangement, Regulator Release Button And Breathing Apparatus	EP	117301663	1-Jul-2011		
Fall Protection Arrangement	EP	117206904	10-May-2011		
Helmet Accessory Adapter	EP	127168292	30-Mar-2012		
Electrochemical Sensor Comprising Polymeric Housing	EP		15-Aug-2012		
Protective Enclosure For Use With a Sensor for Detecting An Analyte	EP	127511574	24-Jul-2012		
Personal Fall Limiter Arrangement and User Connection Arrangement Therefor	EP	127051928	1-Feb-2012		
Infrared Sensor with Multiple Sources for Gas Measurement	EP		12-Sep-2012		
Connector And Method Of Connecting Or Disconnecting Electrical Contacts	FR	037291325	23-May-2003	1512199	14-May-08
Communications Device For A Protective Helmet	FR	047770474	25-Jun-2004	1641361	23-Apr-08
Full Body Harness For Fall Arrest	FR	037594264	23-Sep-2003	1545713	9-Apr-08
Protective Hoods And Neck Seals For Use Therein	FR	037136173	24-Feb-2003	1499395	7-Jun-06
Method And Device For Testing Gas Sensors And For Correcting Gas Sensor Output	FR	057410300	28-Apr-2005	1743165	24-Dec-08
Pivot Joint For Faceshield Assembly	FR	009575465	17-Aug-2000	1217910	21-Jul-04
Sensor Having A Communication Device And Method Of Communicating Calibration Information From An Infrared Gas Sensor	FR	047840947	14-Sep-2004	1692500	3-Dec-08
System And Method For Pump Control And Fault Detection	FR	979109816	16-Oct-1997	0934463	4-Jun-03
Catalytic Sensor	FR	019642719	21-Aug-2001	1330640	24-Sep-08
Gas Sensor	FR	999658750	23-Nov-1999	1151285	14-Nov-07
Self-Retracting Lanyard And Braking Mechanism With Pawl Lockout	FR	077166296	16-Jan-2007	1993674	28-Apr-10
Respirator Facepieces	FR	027317643	10-May-2002	1387715	5-Jan-11
Pressure Regulator Assembly	FR	047519848	12-May-2004	1638650	19-Jan-11
Devices, Systems & Methods for Emergency Descent From a Height	FR	057412231	27-Apr-2005	1740272	15-Dec-10
Protective Helmet	FR	078110780	3-Aug-2007	2061352	8-Jun-11
Adjustable Headband	FR	057842999	4-Aug-2005	1814415	3-Mar-10
Devices, Systems And Methods For Generating Electricity From Gases Stored In Containers Under Pressure	FR	057308116	30-Mar-2005	1732652	11-May-11
Electrochemical Sensor	FR	027634120	2-Aug-2002	1419379	13-Oct-10
Devices, Systems And Methods For Operation Of Breathing Apparatus In Multiple Modes	FR	077489185	16-Jan-2007	2010297	2-Jan-13
Connector And Method Of Connecting Or Disconnecting Electrical Contacts	GB	037291325	23-May-2003	1512199	14-May-08

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TITLE	COUNTRY	APPLICATION NO.	APPLICATION DATE	PATENT NO.	GRANT DATE
Communications Device For A Protective Helmet	GB	047770474	25-Jun-2004	1641361	23-Apr-08
Full Body Harness For Fall Arrest	GB	037594264	23-Sep-2003	1545713	9-Apr-08
Protective Hoods And Neck Seals For Use Therein	GB	037136173	24-Feb-2003	1499395	7-Jun-06
Method And Device For Testing Gas Sensors And For Correcting Gas Sensor Output	GB	057410300	28-Apr-2005	1743165	24-Dec-08
Pivot Joint For Faceshield Assembly	GB	009575465	17-Aug-2000	1217910	21-Jul-04
Sensor Having A Communication Device And Method Of Communicating Calibration Information From An Infrared Gas Sensor	GB	047840947	14-Sep-2004	1692500	3-Dec-08
System And Method For Pump Control And Fault Detection	GB	979109816	16-Oct-1997	0934463	4-Jun-03
Catalytic Sensor	GB	019642719	21-Aug-2001	1330640	24-Sep-08
Gas Sensor	GB	999658750	23-Nov-1999	1151285	14-Nov-07
Self-Retracting Lanyard And Braking Mechanism With Pawl Lockout	GB	077166296	16-Jan-2007	1993674	28-Apr-10
Respirator Facepiece	GB	027317643	10-May-2002	1387715	5-Jan-11
Pressure Regulator Assembly	GB	047519848	12-May-2004	1638650	19-Jan-11
Devices, Systems & Methods for Emergency Descent From a Height	GB	057412231	27-Apr-2005	1740272	15-Dec-10
Protective Helmet	GB	078110780	3-Aug-2007	2061352	8-Jun-11
Photoionization Detector	GB	057353997	30-Mar-2005	1733220	19-Jan-11
Adjustable Headband	GB	057842999	4-Aug-2005	1814415	3-Mar-10
Devices, Systems And Methods For Generating Electricity From Gases Stored In Containers Under Pressure	GB	057308116	30-Mar-2005	1732652	11-May-11
Electrochemical Sensor	GB	027634120	2-Aug-2002	1419379	13-Oct-10
Devices, Systems And Methods For Operation Of Breathing Apparatus In Multiple Modes	GB	077489185	16-Jan-2007	2010297	2-Jan-13
Connector And Method Of Connecting Or Disconnecting Electrical Contacts	IT	037291325	23-May-2003	1512199	14-May-08
Protective Helmet	IT	078110780	3-Aug-2007	2061352	8-Jun-11
Adjustable Headband	IT	057842999	4-Aug-2005	1814415	3-Mar-10
Flexible Respirator Filter	JP	JP2000578070	21-Dec-1998		
Gas Sensors	JP	2001565996	29-Jan-2001	4860084	11-Nov-11
Catalytic Sensor	JP	2002541375	21-Aug-2001	4820528	9-Sep-11
Respirator Facepieces	JP	2002589086	10-May-2002	04091439	7-Mar-08
Electrochemical Sensor	JP	JP20030521349	2-Aug-2002	JP04036830 B2	9-Nov-07
Instrument Assembly Systems, Housing And Methods Of Mounting Instrument Assemblies	JP	2004534375	2-Sep-2003	JP4390703 B2	16-Oct-09
Photoacoustic Gas Sensor Utilizing Diffusion	JP	2006522541	12-May-2004	4467569	5-Mar-10
Sensor Comprising Vent Member	JP	2012537083	28-Oct-2010		
Combustible Gas Sensors Including Integral Support Structures And Combustible Gas Sensor With Multiple Active Elements	JP	2012537151	29-Oct-2010		

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REEL: 041245 FRAME: 0727

TITLE	COUNTRY	APPLICATION NO.	APPLICATION DATE	PATENT NO.	GRANT DATE
Electrochemical Sensors Including Electrodes With Diffusion Barriers	JP	2012537072	28-Oct-2010		
Gas Sensor	KR	KR2003047071A	12-Apr-1999		
Sensor Comprising Vent Member	KR	1020127012146	28-Oct-2010		
Combustible Gas Sensors Including Integral Support Structures And Combustible Gas Sensor With Multiple Active Elements	KR	1020127012147	29-Oct-2010		
Electrochemical Sensors Including Electrodes With Diffusion Barriers	KR	1020127012148	28-Oct-2010		
Suspension For Protective Headgear	MX	2001008436	23-Feb-2000	231122	6-Oct-05
Connectors, Instrument Assemblies And Methods Of Connecting Or Disconnecting Electrical Connections Under Power	MX	MX2004PA011783A	23-May-2003	244322	22-Mar-07
Adjustable Headband	MX	MXa2007003136	7-Jun-2005	269560	26-Aug-09
Photoacoustic Gas Sensor	MX	MX2009004630A	1-Nov-2007	287356	9-Jun-11
Gas Sensors and Methods of Controlling Light Sources Therefor	MX	MXa2009013953	1-Jul-2008	287716	23-Jun-11
Method, Apparatus, And Arrangement For A Lifeline System	MX	MXa2011012217	6-May-2010		
Adjustable Headband	PE		20-Sep-2005	0389	3-Mar-09
Self-Retracting Lanyard And Braking Mechanism With Pawl Lockout	PL	077166296	16-Jan-2007	1993674	28-Apr-10
Protective Helmet	PL	078110780	3-Aug-2007	2061352	8-Jun-11
Adjustable Headband	PL	057842999	4-Aug-2005	1814415	3-Mar-10
Sensor Comprising Vent Member	RU	2012122177	28-Oct-2010		
Combustible Gas Sensors Including Integral Support Structures And Combustible Gas Sensor With Multiple Active Elements	RU	2012122174	29-Oct-2010		
Electrochemical Sensors Including Electrodes With Diffusion Barriers	RU	2012122172	28-Oct-2010		
Potentiostat Circuit For Electrochemical Cells	US	08235379	29-Apr-1994	5466356	14-Nov-95
Workers' Multi-Functional Harness	US	08280466	26-Jul-1994	5433289	18-Jul-95
Device For Detecting Gases For Use In Diffusion And Forced Flow Modes	US	08315709	30-Sep-1994	5495747	5-Mar-96
Horizontal Lifeline Energy Absorber	US	08326938	21-Oct-1994	5598900	4-Feb-97
Rail Attachable Rescue Frame For Rail Bridges	US	08326939	21-Oct-1994	5603488	18-Feb-97
Metal Cover For Respirator Cartridge	US	08327198	21-Oct-1994	5531803	2-Jul-96
Microminiature Combustible Gas Sensor And Method Of Fabricating A Microminiature Combustible Gas Sensor	US	08357031	16-Dec-1994	5599584	4-Feb-97
Electrochemical Gas Sensor For The Detection Of Nitric Oxide	US	08469338	6-Jun-1995	5565075	15-Oct-96
Self-Contained Breathing Apparatus Having A Personal Alert Safety System Integrated Therewith	US	08565531	30-Nov-1995	5781118	14-Jul-98
Electrochemical Sensor	US	08616689	15-Mar-1996	5667653	16-Sep-97

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REEL: 041245 FRAME: 0728

TITLE	COUNTRY	APPLICATION NO.	APPLICATION DATE	PATENT NO.	GRANT DATE
Combustible Gas Measuring Sensor Circuit	US	08735631	23-Oct-1996	5780715	14-Jul-98
Lifeline Mounting Apparatus	US	08742032	1-Nov-1996	5863020	26-Jan-99
Adjustable Headband Having A Resiliently Bowable Fastener Surface	US	08839496	14-Apr-1997	5896586	27-Apr-99
Adjustable Headband With A Ratchet Mechanism Having Different Resistances	US	08838004	14-Apr-1997	5950245	14-Sep-99
Combination Head And Eye-Protective Apparatus And Goggles	US	08872433	10-Jun-1997	5845341	8-Dec-98
Combination Head And Eye-Protective Apparatus And Goggles	US	08872431	10-Jun-1997	5937439	17-Aug-99
System And Method For Measuring Movement Of Objects	US	08877342	17-Jun-1997	5899963	4-May-99
Head-Protective Helmet Mounting Member For Mounting Helmet Components Together And Head Band	US	08886787	1-Jul-1997	5898949	4-May-99
Head-Protective Helmet And Assemblies Thereof	US	08886786	1-Jul-1997	6032297	7-Mar-00
Electrochemical Sensor Approximating Dose-Response Behavior And Method Of Use Thereof	US	08887067	2-Jul-1997	5906726	25-May-99
Electrochemical Detection Of Hydrogen Cyanide	US	08887025	2-Jul-1997	6001240	14-Dec-99
Detection Of Hydrogen Chloride	US	08887068	2-Jul-1997	5908546	1-Jun-99
Electrochemical Sensor With A Non-Aqueous Electrolyte System	US	08896630	18-Jul-1997	5944969	31-Aug-99
Electrochemical Gas Sensor For The Detection Of Nitrogen Dioxide	US	08910421	13-Aug-1997	5906718	25-May-99
Full Body Harness For Fall Arrest	US	08974132	19-Nov-1997	5957091	28-Sep-99
Crown Pad And Head-Protective Helmet	US	09119913	22-Jul-1998	5996126	7-Dec-99
Respirator Filter	US	09140144	26-Aug-1998	5992414	30-Nov-99
Load-Handling Device	US	09177498	23-Oct-1998	6189867	20-Feb-01
Electrochemical Sensor For The Detection Of Hydrogen Cyanide	US	09199017	23-Nov-1998	6074539	13-Jun-00
System And Method For Measuring Movement Of Objects	US	09212766	16-Dec-1998	6122960	26-Sep-00
Flexible Respirator Filter	US	09217165	21-Dec-1998	6345620	12-Feb-02
Gas Sensor	US	09290792	12-Apr-1999	6344174	5-Feb-02
Electrochemical Sensor For The Detection Of Hydrogen Chloride	US	09320932	27-May-1999	6129824	10-Oct-00
Rotational Sensor System	US	09332794	14-Jun-1999	6305221	23-Oct-01
Safety Helmet Assembly	US	09353504	14-Jul-1999	6317895	20-Nov-01
Pivot Joint For Faceshield Assembly	US	09382513	25-Aug-1999	6264392	24-Jul-01
Rebar Anchorage System For Horizontal Lifeline	US	09505542	17-Feb-2000	6502663	7-Jan-03
Gas Sensors	US	09611384	7-Jul-2000	7034943	25-Apr-06
Lanyard With Integral Fall Arrest Energy Absorber	US	09687174	13-Oct-2000	6533066	18-Mar-03
Catalytic Sensor	US	09698740	27-Oct-2000	6663834	16-Dec-03
Thermal Imaging Camera	US	09779926	8-Feb-2001	6486473	26-Nov-02
Thermal Imaging Camera	US	29137833	28-Feb-2001	D464666	22-Oct-02

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REEL: 041245 FRAME: 0729

TITLE	COUNTRY	APPLICATION NO.	APPLICATION DATE	PATENT NO.	GRANT DATE
Gas Sensor	US	10012816	10-Dec-2001	6756016	29-Jun-04
Protective Hoods And Neck Seals For Use Therein	US	10133857	26-Apr-2002	6892725	17-May-05
Respirator Facepieces	US	10143283	10-May-2002	7261104	28-Aug-07
Connectors, Instrument Assemblies And Methods Of Connecting Or Disconnecting Electrical Connections Under Power	US	10161488	31-May-2002	6799984	5-Oct-04
Electrochemical Sensor	US	10164539	6-Jun-2002	7147761	12-Dec-06
Rebar Anchorage System For Horizontal Lifeline	US	10219399	15-Aug-2002	6779629	24-Aug-04
Thermal Imaging Camera	US	10231328	29-Aug-2002	6649912	18-Nov-03
Instrument Assembly Systems, Housing And Methods Of Mounting Instrument Assemblies	US	10236081	6-Sep-2002	6754067	22-Jun-04
Communications Device For A Protective Helmet	US	10609829	30-Jun-2003	7110743	19-Sep-06
Photoacoustic Gas Sensor Utilizing Diffusion	US	10635270	6-Aug-2003	7106445	12-Sep-06
Webbing	US	29188987	27-Aug-2003	D498363	16-Nov-04
Full Body Harness For Fall Arrest	US	10677018	1-Oct-2003	6804830	19-Oct-04
Catalytic Sensor	US	10691003	22-Oct-2003	6911180	28-Jun-05
Sensor Having A Communication Device, Sensor Communication System And Method Of Communicating Information From A Sensor	US	10785635	24-Feb-2004	7132659	7-Nov-06
Devices, Systems And Methods For Testing Gas Sensors And Correcting Gas Sensor Output	US	10839455	5-May-2004	7413645	19-Aug-08
Connectors, Instrument Assemblies And Methods Of Connecting Or Disconnecting Electrical Connections Under Power	US	10841852	7-May-2004	7367831	6-May-08
Adjustable Headband	US	10988670	15-Nov-2004	7089603	15-Aug-06
Photoionization Detectors, Ionization Chambers For Use In Photoionization Detectors, And Methods Of Use Of Photoionization Detectors	US	11093992	30-Mar-2005	7180076	20-Feb-07
Devices, Systems And Methods For Generating Electricity From Gases Stored In Containers Under Pressure	US	11093964	30-Mar-2005	7218009	15-May-07
Devices, Systems And Methods For Testing Of Gas Detectors	US	11171861	30-Jun-2005	7530255	12-May-09
Method And Apparatus For Gas Measurement At Substantially Constant Pressure	US	11221208	7-Sep-2005	7240535	10-Jul-07
System, Apparatus And Method For Dispensing Chemical Vapor	US	11321032	29-Dec-2005	7484399	3-Feb-09
System, Apparatus And Method For Concentrating Chemical Vapors	US	11321824	29-Dec-2005	7449050	11-Nov-08
Gas Sensors	US	11408363	21-Apr-2006	7242479	10-Jul-07
Respiratory Protective Apparatus	US	08227603	14-Apr-1994	5577496	26-Nov-96

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REEL: 041245 FRAME: 0730

TITLE	COUNTRY	APPLICATION NO.	APPLICATION DATE	PATENT NO.	GRANT DATE
Breathing Apparatus Having A Flexible Manifold Connected Between A Plurality Of Air Cylinders	US	08481583	7-Jun-1995	5584289	17-Déc-96
Respirator Mask With Stiffening Elements	US	08485172	7-Jun-1995	5592937	14-Jan-97
Thermal Imaging Camera	US	29175512	5-Feb-2003	D481053	21-Oct-03
Adjustable Headband	US	11045788	28-Jan-2005	7296305	20-Nov-07
Instrument Assembly Systems, Housings And Methods Of Mounting Instrument Assemblies	US	10839851	6-May-2004	6882523	19-Apr-05
Method, Apparatus, And Arrangement For A Lifeline System	US	12631996	7-Dec-2009		
Respiratory Breathing Devices, Methods And Systems	US	12150538	29-Apr-2008		
Devices And Systems Including Transducers	US	12006494	3-Jan-2008	8229142	24-Jul-12
Spectacle Frame Mount For Face Mask	US	12435475	5-May-2009	7677724	16-Mar-10
Self-Retracting Lanyard And Braking Mechanism With Pawl Lockout	US	11485710	12-Jul-2006	7870934	18-Jan-11
Anchorage Connector	US	29359865	16-Apr-2010	D646553	11-Oct-11
Devices, Systems And Methods Of Determining The Location Of Mobile Personnel	US	12497761	6-Jul-2009	8289154	16-Oct-12
Personal Navigation System And Associated Methods	US	12843294	26-Jul-2010		
Navigational System Initialization System, Process, And Arrangement	US	12909982	22-Oct-2010		
Combustible Gas Sensors Including Integral Support Structures And Combustible Gas Sensor With Multiple Active Elements	US	12916370	29-Oct-2010		
Sensor Assemblies And Vent Members Therefor	US	12914929	28-Oct-2010		
Electrochemical Sensors Including Electrodes With Diffusion Barriers	US	12914685	28-Oct-2010		
System, Apparatus And Method For Dispensing Chemical Vapor	US	12316614	15-Dec-2008	7845206	7-Dec-10
Gas Sensors and Methods of Controlling Light Sources Therefor	US	11899508	6-Sep-2007	7835004	16-Nov-10
Breathing Mask	US	08946737	6-Oct-1997	6102040	15-Aug-00
System and Method for Alerting Safety Personnel of Unsafe Air Temperature Conditions	US	09182823	29-Oct-1998	6118382	12-Sep-00
Attachable Arrangement	US	13007820	17-Jan-2011		
Attaching Structure For An Attachable Arrangement	US	13008116	18-Jan-2011		
Chest Strap Arrangement For An Attachable Arrangement	US	13008163	18-Jan-2011	8469147	25-Jun-13
Photoacoustic Gas Sensor	US	11897754	31-Aug-2007	7886576	15-Feb-11
System And Method For Pump Control And Fault Detection	US	08736466	24-Oct-1996	6092992	25-Jul-00

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REEL: 041245 FRAME: 0731

TITLE	COUNTRY	APPLICATION NO.	APPLICATION DATE	PATENT NO.	GRANT DATE
Devices, Systems And Methods For Operation Of Breathing Apparatus In Multiple Modes	US	12794259	4-Jun-2010	8256420	4-Sep-12
Devices, Systems And Methods For Testing Gas Sensors And Correcting Gas Sensor Output	US	12215295	26-Jun-2008	7959777	14-Jun-11
Protective Helmet and Method of Manufacture Thereof	US	10916831	13-Aug-2004	8464362	18-Jun-13
Protective Helmet and Method of Manufacture Thereof	US	12548803	27-Aug-2009	8522418	3-Sep-13
Devices, Systems & Methods for Emergency Descent from a Height	US	11115629	27-Apr-2005		
Protective Helmet	US	11881605	27-Jul-2007	8225419	24-Jul-12
Pressure Regulator Assembly	US	10606456	26-Jun-2003	8025053	27-Sep-11
Inertial Navigation Units, Systems, and Methods	US	13040370	4-Mar-2011		
Breathing Apparatus System	US	13070914	24-Mar-2011		
Visor Frame	US	29388893	4-Apr-2011	D661840	12-Jun-12
Visor Interface	US	29388889	4-Apr-2011	D683077	21-May-13
Chin Guard	US	29388898	4-Apr-2011	D672683	18-Dec-12
Chin Guard	US	29388895	4-Apr-2011	D674560	15-Jan-13
Visor	US	29388903	4-Apr-2011	D675786	5-Feb-13
Visor	US	29388920	4-Apr-2011	D683078	21-May-13
Visor	US	29388906	4-Apr-2011	D675787	5-Feb-13
Visor	US	29388908	4-Apr-2011	D661841	12-Jun-12
Visor	US	29388911	4-Apr-2011	D677008	26-Feb-13
Visor	US	29388919	4-Apr-2011	D675788	5-Feb-13
Visor	US	29388899	4-Apr-2011	D669639	23-Oct-12
Visor	US	29388902	4-Apr-2011	D662261	19-Jun-12
Visor Frame	US	29388917	4-Apr-2011	D683501	28-May-13
Devices, Systems and Methods for Operation of Breathing Apparatuses in Multiple Modes	US	11594380	8-Nov-2006	7762252	27-Jul-10
System and Method for (Extending Sensor Life) Limiting Sensor Exposure to Ozone	US	11474532	26-Jun-2006	8349260	8-Jan-13
Indoor Air Quality Sensor and Method	US	08228235	15-Apr-1994	5394934	7-Mar-95
Fall Protection Arrangement	US	13103414	9-May-2011		
Data Communication And Displays For Breathing Apparatus Facepieces And Pressure Regulators	US	13167778	24-Jun-2011		
Facepiece With Open Port	US	13167794	24-Jun-2011		
System and Method for Measuring Movement of Objects	US	08570759	12-Dec-1995	5724265	3-Mar-98
Indicator Arrangement, Regulator Release Button And Breathing Apparatus	US	13174976	1-Jul-2011		
Protective Enclosure For Use With a Sensor for Detecting An Analyte	US	13190813	26-Jul-2011	8661896	4-Mar-14
Personal Fall Limiter Arrangement and User Connection Arrangement Therefor	US	13223524	1-Sep-2011		
Visor Interface	US	29401009	6-Sep-2011	D675785	5-Feb-13

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TITLE	COUNTRY	APPLICATION NO.	APPLICATION DATE	PATENT NO.	GRANT DATE
Sensors and Sensor Housing Systems	US	13220240	29-Aug-2011	8617364	31-Dec-13
Infrared Sensor with Multiple Sources for Gas Measurement	US	13242677	23-Sep-2011		
Visor	US	29388914	4-Apr-2011	D677435	5-Mar-13
User Navigation Guidance and Network System	US	13325623	14-Dec-2011		
Feature Location and Resource Management System and Method	US	13325491	14-Dec-2011		
"Thermal Imaging-Based Firefighting System and Method"	US	13528988	21-Jun-2012		
Helmet Accessory Adapter	US	13435588	30-Mar-2012		
Release Mechanism for Harness System	US	13435175	30-Mar-2012	8356692	22-Jan-13
Sensor Interrogation	US	13650613	12-Oct-2012		
Navigational Deployment and Initialization Systems and Methods	US	13558915	26-Jul-2012		
Incident Management and Monitoring Systems and Methods	US	13558987	26-Jul-2012		
Facepiece with Noise Reduction for Communication	US	13796886	12-Mar-2013		
Protective Helmet	US	13540602	2-Jul-2012	8539613	24-Sep-13
Materials, Method and Apparatus for Detection and Monitoring of Chemical Species	US	09072283	4-May-1998	6221673	24-Apr-01
Sensor Interrogation	US	61698153	7-Sep-2012		
Diagnostics for Catalytic Structures and Combustible Gas Sensors Including Catalytic Structures	US	13795452	12-Mar-2013		
Sensor Interrogation	US	13796289	12-Mar-2013		
Respirator Mask and Filter Unit Therefore	US	13796157	12-Mar-2013		
Cable Connector for Use With a Rotating Connection	US	13652658	16-Oct-2012		
Protective Helmet	US	14136613	20-Dec-2013		
Sensor Interrogation	US	13796652	12-Mar-2013		
Sensor Interrogation	US	13796540	12-Mar-2013		
Release Mechanism for Harness System	US	13717968	18-Dec-2012		
Sensor Interrogation	US	13796409	12-Mar-2013		
Adjustment Mechanism for a Headband Arrangement of a Safety Helmet	US	14138860	23-Dec-2013		
Support For Visors and Face Shields	US	61829033	30-May-2013		
Suspension Connection Arrangement for A Suspension System of a Safety Helmet	US	14138979	23-Dec-2013		
Breathing Apparatus with Tank Alignment System	US	61910181	29-Nov-2013		
Support For Visors and Face Shields	US	14012601	28-Aug-2013		
Adjustment Mechanism for a Headband Arrangement of a Safety Helmet	US	61872090	30-Aug-2013		
Cylinder Cradle Rail Arrangement	US	61909482	27-Nov-2013		
Adjustable Lumbar Pad Carriage Mechanism	US	61909463	27-Nov-2013		

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TITLE	COUNTRY	APPLICATION NO.	APPLICATION DATE	PATENT NO.	GRANT DATE
Modular Tank Cradle and Backpack for Self-Contained Breathing Apparatus	US	61909512	27-Nov-2013		
Tank Attachment Arrangement for a Self-Contained Breathing Apparatus	US	14141550	27-Dec-2013		
Modular Tank Cradle and Backpack for Self-Contained Breathing Apparatus	US	14141582	27-Dec-2013		
Adjustable Lumbar Support for Mounting on a Backpack and Backpack Having the Same	US	14141557	27-Dec-2013		
Breathing Apparatus With Tank Alignment System	US	14144310	30-Dec-2013		
Breathing Apparatus With Illuminated Connection	US	14144339	30-Dec-2013		
Sensors and Sensor Housing Systems	US	14136251	20-Dec-2013		
Electrochemical Power Cells And Method Of Improving Electrochemical Power Cell Performance	WO	PCTUS99012466	4-Jun-1999		
Personal Fall Limiter Arrangement and User Connection Arrangement Therefor	WO	PCTUS2012023420	1-Feb-2012		
Helmet Accessory Adapter	WO	PCTUS2012031498	30-Mar-2012		
Protective Enclosure For Use With a Sensor for Detecting An Analyte	WO	PCTUS2012047950	24-Jul-2012		
Electrochemical Sensor Comprising Polymeric Housing	WO	PCTUS2012050868	15-Aug-2012		
Infrared Sensor with Multiple Sources for Gas Measurement	WO	PCTUS2012054950	12-Sep-2012		
Method for Testing a Gas Sensor	WO	PCTUS2012059968	12-Oct-2012		
Bracket and Lifting/Lowering Device Assembly	WO	PCTUS2013031271	14-Mar-2013		
Cable Connector for Use With a Rotating Connection	WO	PCTUS2013064981	15-Oct-2013		
Gas Sensor Interrogation	WO	PCTUS2013064739	12-Oct-2013		
Respirator Mask and Filter Unit Therefore	WO	PCTUS2014016037	12-Feb-2014		
Pivot Joint For Faceshield Assembly	ZA	ZA200201891A	17-Aug-2000	ZA 200201891	24-Dec-02
Devices, Systems And Methods For Emergency Descent From A Height	ZA	ZA200608723	27-Apr-2005	ZA200608723	28-May-08
Adjustable Headband	ZA	ZA200705688	4-Aug-2005	ZA 2007/05688	27-Aug-08
Devices, Systems & Methods for Emergency Descent From a Height	ZA	200608723	27-Apr-2005	2006/08723	28-May-08
Protective Headwear - Chin Guard	ZA	A201101593	3-Oct-2011	A2011/01593	21-Nov-12
Protective Headwear - Visor Interface	ZA	A201101586	3-Oct-2011		
Protective Headwear - Chin Guard	ZA	A201101587	3-Oct-2011		
Protective Headwear - Visor	ZA	A201101597	3-Oct-2011		
Protective Headwear - Visor	ZA	A201101598	3-Oct-2011	A2011/01598	14-Nov-12
Protective Headwear - Visor	ZA	A201101590	3-Oct-2011		
Visor	ZA	A201101583	3-Oct-2011		
Protective Headwear - Visor	ZA	A201101584	3-Oct-2011		
Protective Headwear - Visor	ZA	A201101589	3-Oct-2011		
Protective Headwear - Visor Frame	ZA	A201101582	3-Oct-2011	A2011/01582	14-Nov-12
Protective Headwear - Visor	ZA	A201101585	3-Oct-2011		
Protective Headwear - Visor	ZA	A201101596	3-Oct-2011	A2011/01596	14-Nov-12

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TITLE	COUNTRY	APPLICATION NO.	APPLICATION DATE	PATENT NO.	GRANT DATE
Protective Headwear - Visor	ZA	A201101595	3-Oct-2011		
Protective Headwear - Visor Frame	ZA	A201101594	3-Oct-2011		
Visor Interfaces	ZA	A201200106	2-Feb-2012		

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Schedule C - Registered Copyrights

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