501810895 02/06/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Robert A. Apel	08/29/2011
Jeffrey Wu	08/17/2011
James Zhan	08/17/2011

RECEIVING PARTY DATA

Name:	Mine Safety Appliances Company
Street Address:	1000 Cranberry Woods Drive
City:	Cranberry Twp.
State/Country:	PENNSYLVANIA
Postal Code:	16066

PROPERTY NUMBERS Total: 3

Property Type	Number
Application Number:	61506368
Application Number:	13223524
PCT Number:	US1223420

CORRESPONDENCE DATA

Fax Number: (412)945-5933
Phone: 412-471-8815

Email: assignments@webblaw.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: The Webb Law Firm
Address Line 1: 420 Ft. Duquesne Blvd

Address Line 2: One Gateway Center, Suite 1200
Address Line 4: Pittsburgh, PENNSYLVANIA 15222

ATTORNEY DOCKET NUMBER:	2934-112561
	1

PATENT

REEL: 027658 FRAME: 0879

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NAME OF SUBMITTER:	Nathan J. Prepelka
Total Attachments: 4 source=112561AssignmentRecord#page1.t source=112561AssignmentRecord#page2.t source=112561AssignmentRecord#page3.t source=112561AssignmentRecord#page4.t	f f

PATENT REEL: 027658 FRAME: 0880

OMB NO. 0031-0027 (exp. 6/30/2006)			
	RECORDATION FORM COVER SHEET PATENTS ONLY		
	e record the attached documents or the new address(es) below.		
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)		
Robert A. Apel	Name: Mine Safety Appliances Company		
Jeffrey Wu			
James Zhan	Internal Address:		
Additional name(s) of conveying party(ies) attached? Yes ✓ No			
3. Nature of conveyance/Execution Date(s):	Street Address: 1000 Cranberry Woods Drive		
Execution Date(s) August 29, 2011; August 17, 2011			
✓ Assignment	City: Cranberry Twn		
Security Agreement Change of Name	City: Cranberry Twp.		
☐ Joint Research Agreement	State: PA		
Government Interest Assignment	Country: US Zip: 16066		
Executive Order 9424, Confirmatory License			
Other	Additional name(s) & address(es) attached? Yes No		
· · · · · · · · · · · · · · · · · · ·	document is being filed together with a new application.		
A. Patent Application No.(s)	B. Patent No.(s)		
61/506,368 13/223,524			
PCT/US12/23420			
Additional numbers at	l tached? ☐ Yes ✔ No		
5. Name and address to whom correspondence	6. Total number of applications and patents		
concerning document should be mailed:	involved:		
Name: Richard L. Byrne	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 120		
Internal Address: The Webb Law Firm	Authorized to be charged by credit card		
	Authorized to be charged to deposit account		
Street Address: One Gateway Center	Enclosed		
420 Ft. Duquesne Blvd., Ste 1200	None required (government interest not affecting title)		
City: Pittsburgh	8. Payment Information		
State: PA Zip: 15222	a. Credit Card Last 4 Numbers 4775 Expiration Date 05/2012		
Phone Number: 412-471-8815	b. Deposit Account Number 23-0650		
Fax Number: 412-945-5933			
Email Address: assignments@webblaw.com	Authorized User Name		
9. Signature:	February 6, 2012		
Signature Signature	Date		
Nathan J. Prepelka, Reg. No. 43,016	Total number of pages including cover sheet, attachments, and documents:		

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

	Application No	
	Attorney Docket No	2934-112561
ASSIGN	NMENT	
WHEREAS, as a below name useful improvements in	d inventor, I have invente	ed certain new and
PERSONAL FALL LIM AND USER CONNECTION A		FOR
(Invention	on Title)	
X for which a United States Provisional Pate and bears Application Number 61/506,		
AND/OR	aulication for a United Sta	tog Potont Charainafter
for which I have this day executed an a "said application").	pplication for a United Sta	nes Patent (neremaner
AND/OR	D / C1. 1	
X for which an application for a United Stat and bears Application Number	cs Patent was filed on (hereinafter "said app	(mm/dd/yyyy) plication").
AND/OR		
X for which an international patent application on(mm/dd/yyyy), bearing Ap "said application").	ion was filed under the Pate plication No.	nt Cooperation Treaty (hereinafter
AND, WHEREAS, Mine Safe Pennsylvania, having a place of business a Township, PA 16066,, hereinafter called the right, title, and interest in and to said application disclosed.	at 1000 Cranberry Wood "assignee", is desirous of	s Drive, Cranberry acquiring the entire
NOW, THEREFORE, for good assignee, the receipt of which is hereby accinventors, hereinafter the assignor(s), do here full and exclusive right, title and interest in improvements therein disclosed for the United Patent which may issue therefor in the United reissues, continuations, continuations-in-parassignment extends to the full ends of the tentirely as the same would have been held a made.	knowledged, I as the investigation states and all foreign country, renewals and/or exterms of these applications and these applications are	entor or as one of the runto said assignee the and the inventions and puntries and any Letters antries and all divisions, asions thereof. Such and patents as fully and
I hereby authorize and request a Firm, Customer No. 28289, to insert here in pa filed 9///201/) the filing date a		13/228,524,

when known.

DOMESTIC

DOMESTIC
Application No
Attorney Docket No 2934-112561
I hereby authorize and request any attorney associated with The Webb Law
Firm, Customer No. 28289, to insert here in parentheses (Application No. $\frac{PCT}{20.12} / \frac{23.420}{20.00}$ filed $\frac{2/1/20.12}{20.00}$) the filing date and application number of said PCT application when known.
I covenant that I am the lawful owner(s) of said application, inventions and improvements, that the same are unencumbered, that no license has been granted to make, use or vend the said inventions or improvements or any of them, and that I have the full right to make this Assignment.
And for the consideration aforesaid, I agree individually and, if applicable, jointly that I will communicate to said assignee or the representatives thereof any facts known to me respecting said inventions and improvements, and will, upon request but without expense to me, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, renewal and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts deemed necessary or expedient by said assignee or by counsel for said assignee to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This Assignment shall be binding upon my heirs, executors, administrators and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors and/or assigns, as the case may be, of said assignee.
1. FULL NAME OF ASSIGNOR: RESIDENCE: Robert A. Apel Cranberry Township, PA
EXECUTED this 29th day of Aug, 2011
SIGNATURE SIGNATURE
STATE of Pennsylvania
COUNTY of Butler
On this 29th day of August, in the year 2011, before me Christine A. Krolicki, NOTARY PUBLIC NAME
a notary public, personally appeared Robert A. Apel, NAME OF DOCUMENT SIGNER,
proved on the basis of satisfactory evidence to be the person whose name is subscribed to this instrument, and acknowledged he/she executed the same. Witness my hand and official seal. Chustine O. Krolichi
NOTARY PUBLIC COMMONWEALTH OF PENNSYLVANIA S NOTARY PUBLIC S

Checked Box indicates 1 additional page(s) for inventor signatures.

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Notarial Seal

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

E A L

	Application No.	DOMESTIC
	Attorney Docket No.	2934-112561
2. FULL NAME OF ASSIGNOR: Jeffrey Wu	RESIDENCE: Jiangsu, China	
EXECUTED this 17 day of Bug,	Jeffrey Wu SIGNATU	RE
WITNESS: Raby J Willi	-	****
3. FULL NAME OF ASSIGNOR: James Zhan	RESIDENCE: Jiangsu, China	
EXECUTED this 17 day of August	, 2011 James Zlam SIGNATU	IRE
WITNESS: Rah / Willing	_	