

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT3865725

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	AUSTIN POWDER COMPANY	04/25/2016
RECEIVING PARTY DATA		
Name:	AUSTIN STAR DETONATOR COMPANY	
Street Address:	25800 SCIENCE PARK DRIVE	
City:	CLEVELAND	
State/Country:	OHIO	
Postal Code:	44122	
PROPERTY NUMBERS Total: 4		
Property Type	Number	
Application Number:	13792912	
Application Number:	14976521	
Application Number:	61910654	
Application Number:	62009023	
CORRESPONDENCE DATA		
Fax Number:	(216)363-9001	
<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:	216-363-9000	
Email:	kforsyth@faysharpe.com	
Correspondent Name:	FAY SHARPE LLP - ERIC HIGHMAN	
Address Line 1:	1228 EUCLID AVE 5TH FLR	
Address Line 4:	CLEVELAND, OHIO 44115	
ATTORNEY DOCKET NUMBER:	ATNZ000001US01	
NAME OF SUBMITTER:	ERIC HIGHMAN	
SIGNATURE:	/Eric Highman/	
DATE SIGNED:	05/10/2016	
Total Attachments: 3		
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ASSIGNMENT

WHEREAS, **AUSTIN POWDER COMPANY**, a corporation of the State of Ohio, having a place of business at 25800 Science Park Drive, Cleveland, Ohio 44122 (hereinafter Assignor), who has been assigned interest in certain inventions and/or new and useful improvements in certain inventions disclosed in various United States and international patent applications and granted patents, which are described in **Schedule A** attached and incorporated by reference hereto (hereinafter referred to as "said inventions").

NOW THEREFORE, it is agreed that, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged:

ASSIGNOR DOES hereby sell, assign and transfer to **AUSTIN STAR DETONATOR COMPANY**, a corporation of the State of Ohio, having a place of business at 25800 Science Park Drive, Cleveland, Ohio 44122, (hereinafter Assignee) its successors, assigns, and legal representatives, the full and exclusive right, title, and interest in and to said inventions and said applications for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States, its territorial possessions and all foreign countries; and in and to any and all continuations-in-part, continuations, divisions, substitutes, reissues, reexaminations, extensions thereof, and all other forms of protection relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties, including all future conventions, unions agreements, acts, and treaties;

ASSIGNOR AGREES that said Assignee may apply for and receive Letters Patent for said inventions, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of said Assignee, its successors, assigns and legal representatives, the undersigned will execute all continuations-in-part, continuations, divisions, substitutes, reexaminations, reissues, and extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said inventions and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents on said inventions in said Assignee, its successors, assigns, or legal representatives; and

ASSIGNOR CONSENTS that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Assignee to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

PATENT

REEL: 038532 FRAME: 0339

IN TESTIMONY WHEREOF I/WE have hereunto set MY/OUR signature(s) on the date(s) indicated below.

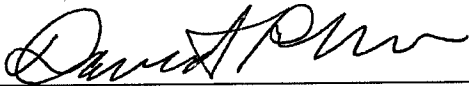
Signed at the Cleveland, Ohio, U.S.A.

Assignor

Assignee

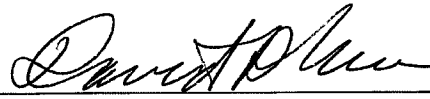
Austin Powder Company

Austin Star Detonator Company



By: David P. True, President

Date: 4/25/16



By: David P. True, President

Date: 4/25/16

CERTIFICATE OF ACKNOWLEDGEMENT

State of Ohio

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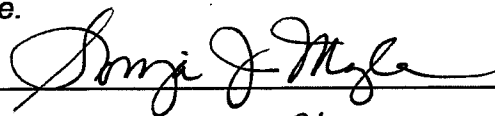
) ss

County of Cuyahoga

)

On this 25th day of April, 2016, before me personally appeared **David P. True**, a representative of Austin Powder Company, to me known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same.

(SEAL)



Notary Public, State of Ohio

My Commission Expires: 3/1/21

SONJA J. MYLES, Notary Public

State of Ohio

Recorded in Summit County

My Commission Expires March 1, 2021

PATENT

REEL: 038532 FRAME: 0340

SCHEDULE A

READER APPARATUS AND METHODS FOR VERIFYING ELECTRONIC DETONATOR POSITION LOCATIONS AT A BLASTING SITE	ANTZ 200096USP1	61/610,217	3/13/2012
READER APPARATUS AND METHODS FOR VERIFYING ELECTRONIC DETONATOR POSITION LOCATIONS AT A BLASTING SITE	ANTZ 200096US01	13/792,912	3/11/2013
METHOD AND APPARATUS FOR MEASURING BOREHOLE PRESSURE DURING BLASTING	ANTZ 200097USP1	61/597,238	2/10/2012
METHOD AND APPARATUS FOR MEASURING BOREHOLE PRESSURE DURING BLASTING	ANTZ 200097US01	13/764,021	2/11/2013
METHOD AND APPARATUS TO MEASURE BOREHOLE PRESSURE DURING BLASTING	ATNZ 200097US02	14/976,521	12/21/2015
METHOD AND APPARATUS FOR WIRELESS BLASTING	ANTZ 200102USP1	61/910,654	12/2/2013
METHOD AND APPARATUS FOR WIRELESS BLASTING	ANTZ 2000102WO01	(PCT/US2014/067880)	12/1/2014
METHODS AND APPARATUS FOR CONFIRMATION TIME BREAK (CTB) DETERMINATION AND SHOTPOINT IN SITU RECORDING IN SEIMIC DETONATORS	ANTZ 200106USP1	62/009,023	6/6/2014