506479076 02/01/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6525852

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DYNAENERGETICS US, INC.	07/11/2019

RECEIVING PARTY DATA

Name:	DYNAENERGETICS GMBH & CO. KG	
Street Address:	KAISERSTRASSE 3	
City:	TROISDORF	
State/Country:	GERMANY	
Postal Code:	53840	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	17162579	

CORRESPONDENCE DATA

Fax Number: (866)250-1636

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.

Phone: 2034284420

Email:csmith@moylesip.comCorrespondent Name:MOYLES IP, LLCAddress Line 1:1 ENTERPRISE DRIVE

Address Line 2: SUITE 428

Address Line 4: SHELTON, CONNECTICUT 06484

ATTORNEY DOCKET NUMBER:	DMC054USCON
NAME OF SUBMITTER:	CAROLINE SMITH
SIGNATURE:	/Caroline Smith/
DATE SIGNED:	02/01/2021

Total Attachments: 1

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PATENT 506479076 REEL: 055092 FRAME: 0563

<u>ASSIGNMENT</u>

WHEREAS, DynaEnergetics US, Inc., a United States Corporation, of 2050 W. Sam Houston Parkway S., Suite 1750; Houston, TX 77042 USA holds legal title in and to this invention and improvements and desires to assign all right, title and interest in and to POSITIONING DEVICE FOR SHAPED CHARGES IN A PERFORATING GUN MODULE, the application/(s) for which are described in the following table (hereinafter "the Patent Applications"):

Country of Filing	Type of Filing	Application No.	Filing Date	Title
us	Utility	16/511,495	07/15/2019	SINGLE CHARGE
	Canty			PERFORATING GUN
US	Utility	17/162,579	01/29/2021	PERFORATING GUN MODULE WITH MONOLITHIC SHAPED CHARGE POSITIONING DEVICE

(We hereby authorize and request DynaEnergetics GmbH & Co. KG or its delegated attorneys or agents to insert above the application number and filing date of the Patent Application(s) when known.)

NOW THEREFORE, for good and valuable consideration received, we hereby sell, assign, and transfer to DynaEnergetics GmbH & Co. KG, of Kaiserstrasse 3, Troisdorf, Germany 53840, its successors and assigns, all right, title and interest in and to said invention to the Patent Applications and any and all applications for patent and patents therefrom in any and all countries throughout the world, including all divisions, continuations, reexaminations and reissues thereof, and all rights of priority resulting from the filing of the Patent Applications, and authorize and request any official whose duty it is to issue patents, to issue any patent on the inventions and improvements resulting therefrom to DynaEnergetics GmbH & Co. KG, or its successors or assigns, and agree that on request and without further consideration to utilize commercially reasonable means to procure, communicate or cause to be communicated to DynaEnergetics GmbH & Co. KG or its representatives or nominees any facts known to DynaEnergetics US, Inc. respecting the inventions and improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, reexamination and reissue applications, make all rightful oaths and/or declarations and generally do everything possible to aid DynaEnergetics GmbH & Co. KG, and to have its employees, affiliates and contractors aid DynaEnergetics GmbH & Co. KG, its successors, assigns, and nominees to obtain and enforce proper patent protection for the invention and its improvements in all countries in a commercially reasonable manner if and when requested by DynaEnergetics GmbH & Co. KG.

IN TESTIMONY WHEREOF, This Assignment is executed below on behalf of DynaEnergetics US. Inc.

Signature:

Name: Title: Michelle Shepston Vice President

DynaEnergetics US, Inc.

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Date:

7/11/2019

SUBSCRIBED AND SWORN TO BEFORE ME by the said Michelle Shepston, on this

//www

the 11th day of July 2019.

JENNIFER HOUGHLAND NOTARY PUBLIC STATE OF COLORADO

NOTARY ID 20174052367 MY COMMISSION EXPIRES DECEMBER 27, 2021

PATENT

REEL: 055092 FRAME: 0564

RECORDED: 02/01/2021