

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5668478

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
FRANK H PREISS	10/14/2016
LIAM MCNELIS	10/27/2016
THILO SCHARF	10/17/2016

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:	16540484

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NAME OF SUBMITTER:	JANELLE A. O'NEILL
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DATE SIGNED:	08/14/2019

Total Attachments: 4

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GLOBAL ASSIGNMENT

In accordance with my/our obligation(s) under any employee agreement or (as applicable) arising out of other agreements, and/or for other good and valuable consideration of which we acknowledge receipt, I/we,

Inventor First Name	Inventor Middle Name	Inventor Last Name		Residence Town	Residence Country
Frank	H	Preiss	of	Bonn	DE
Liam		McNelis	of	Bonn	DE
Thilo		Scharf	of	Letterkenny	IE

hereby sell and assign to:

Name of Company: DynaEnergetics GmbH & CO. KG
Address: Kaiserstrasse 3, Troisdorf, 53840, DE

herein referred to as "Company", its successors and assigns our entire respective rights, titles and interests in and to the invention and improvements made or conceived by us described in the application(s) listed in the following table:

Country of Filing	Type of Filing	Application Number	Filing Date	Title
CA	Utility	2,821,506	7/18/2013	PERFORATION GUN COMPONENTS AND SYSTEM
WO	International	PCT/CA2014/050673	7/16/2014	PERFORATION GUN COMPONENTS AND SYSTEM
US	Utility	14904788	1/13/16	PERFORATION GUN COMPONENTS AND SYSTEM
US	Divisional	15/287,309	10/6/2016	PERFORATION GUN COMPONENTS AND SYSTEM
US	Divisional	15/617,344	6/8/2017	PERFORATION GUN COMPONENTS AND SYSTEM
US	Continuation	15/920,800	3/14/2018	PERFORATION GUN COMPONENTS AND SYSTEM
US	Continuation	15/920,812	3/14/2018	PERFORATION GUN COMPONENTS AND SYSTEM
US	Continuation	16/359,540	3/20/2019	PERFORATION GUN COMPONENTS AND SYSTEM
US	Utility	16/540,484	08/14/2019	DETONATOR POSITIONING DEVICE

(We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application(s) when known.)

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, continuations-in-part, reexaminations, renewals, and reissues thereof, and all rights of priority resulting from the filing of the application(s), 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 the Company, or its successors or assigns, and agree that on request and without further consideration, we will communicate to the Company or its representatives or nominees any facts known to us respecting the inventions and improvements and testify in any legal proceeding, make all rightful oaths, sign all lawful papers and execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights in all countries including, but not limited to, any provisional, non-provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, for any derivation proceedings relating thereto, and, as to any

patents that issue from such applications, for any supplemental examination, derivation proceeding, opposition, post grant review, reissue, re-examination, inter partes review, or extension thereof, and generally do everything possible to aid the Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for the invention and its improvements in all countries.

Remuneration claims of the inventor(s)/assignor(s) potentially arising from German Law on Employee Inventions, or any other respective country law, remain unaffected by this assignment.

INVENTOR 1

Signature:  Date: 10.14.16
Frank H. Preiss


Witnessed by:  Date: 10.14.16
Signature

Ian Grieves
Printed Name of Witness


Witnessed by:  Date: 10.14.16
Signature

Christina Katten
Printed Name of Witness

INVENTOR 2

Signature: 
Liam McNelis

Date: 27th Oct. 2016

Witnessed by: 
Signature

Date: 27.10.2016

JOERN LOEHKEN
Printed Name of Witness

Witnessed by: 
Signature

Date: 27.10.2016

Christian Eitschberger
Printed Name of Witness

INVENTOR 3

Signature: Thilo Scharf
Thilo Scharf

Date: 17/Oct/2016

Witnessed by: Anne Marie Scharf
Signature

Date: 17/10/16

ANNE MARIE SCHARF
Printed Name of Witness

Witnessed by: Mary Gallagher
Signature

Date: 17/10/16

MARY GALLAGHER
Printed Name of Witness