

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5864931

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the MISSING WORDING BETWEEN THE ASSIGNEE'S NAME AND THE LIST OF PATENTS HAS BEEN ADDED INVENTOR'S NAME: JÖRN OLAF LÖHKEN previously recorded on Reel 042356 Frame 0550. Assignor(s) hereby confirms the ADD: AND INTERESTS IN AND TO THE INVENTION AND IMPROVEMENTS MADE OR CONCEIVED BY US DESCRIBED IN JOERN OLAF LOEHKEN.

**CONVEYING PARTY DATA**

Name	Execution Date
JOERN OLAF LOEHKEN	10/08/2019

**RECEIVING PARTY DATA**

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

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	15499408

**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:** joneill@moylesip.com  
**Correspondent Name:** MOYLES IP, LLC  
**Address Line 1:** 1 ENTERPRISE DRIVE  
**Address Line 2:** SUITE 428  
**Address Line 4:** SHELTON, CONNECTICUT 06484

<b>ATTORNEY DOCKET NUMBER:</b>	DMC026US_CORRECTIVE
<b>NAME OF SUBMITTER:</b>	JANELLE A. O'NEILL
<b>SIGNATURE:</b>	/Janelle A. O'Neill/
<b>DATE SIGNED:</b>	12/12/2019

**Total Attachments: 6**

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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
Joern	Olaf	Loehken	of	Troisdorf	DE

hereby sell and assign to:

Name of Company: DynaEnergetics GmbH & Co. KG
Address: Kaiserstrasse 3, Troisdorf, 53840, Germany

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
US	Provisional	62/445,672	1/12/2017	SHAPED CHARGE LINER, METHOD OF MAKING SAME, AND SHAPED CHARGE INCORPORATING SAME
US	Provisional	62/488,182	4/21/2017	SHAPED CHARGE LINER, METHOD OF MAKING SAME, AND SHAPED CHARGE INCORPORATING SAME
US	Utility	15/499,408	4/27/2017	SHAPED CHARGE LINER, METHOD OF MAKING SAME, AND SHAPED CHARGE INCORPORATING SAME

(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


Signature:   
Joern Olaf Loehken

Date: Oct 8<sup>th</sup> 2019

Witnessed by:   
Signature

Date: Oct 8<sup>th</sup> 2019

Denis Will  
Printed Name of Witness

Witnessed by:   
Signature

Date: Oct 8<sup>th</sup> 2019

Craig Stafford  
Printed Name of Witness

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4388770

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
<del>JOERN OLAF LOEHKEN</del> JOERN OLAF LOEHKEN	04/26/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	DYNAENERGETICS GMBH & CO. KG
<b>Street Address:</b>	KAISERSTRASSE 3
<b>City:</b>	TROISDORF
<b>State/Country:</b>	GERMANY
<b>Postal Code:</b>	53840
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15499408
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(866)250-1636
<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>	
<b>Phone:</b>	2038704024
<b>Email:</b>	jbailey@moylesip.com
<b>Correspondent Name:</b>	MOYLES IP, LLC
<b>Address Line 1:</b>	970 BEAVER DAM ROAD
<b>Address Line 4:</b>	STRATFORD, CONNECTICUT 06614
<b>ATTORNEY DOCKET NUMBER:</b>	DMC026US
<b>NAME OF SUBMITTER:</b>	JANELLE A. BAILEY
<b>SIGNATURE:</b>	/Janelle A. Bailey/
<b>DATE SIGNED:</b>	04/27/2017
<b>Total Attachments: 2</b>	
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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 State	Residence Country
Joern	Olaf	Loehken	of	Troisdorf		Germany

hereby sell and assign to:

Name of Company: DynaEnergetics GmbH & Co. KG
Address: Kaiserstrasse 3, Troisdorf 53840, Germany

herein referred to as "Company", its successors and assigns our entire respective rights, titles the application(s) listed in the following table:

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(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.)

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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 [Signature]  
Joern Olaf Loehken

Date: 26.4.2017

Witnessed by: [Signature]  
Signature

Date: April 26<sup>th</sup> 2017

LIAM McNEUS  
Printed Name of Witness

Witnessed by: [Signature]  
Signature

Date: APRIL 26/2017

ERV MULHERN  
Printed Name of Witness