

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT5820374

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the THIS DOCUMENT DOES NOT AFFECT TITLE. MISSING WORDING BETWEEN THE ASSIGNEE'S NAME AND THE LIST OF PATENTS HAS BEEN ADDED previously recorded on Reel 049787 Frame 0804. Assignor(s) hereby confirms the ADD: AND INTERESTS IN AND TO THE INVENTION AND IMPROVEMENTS MADE OR CONCEIVED BY US DESCRIBED IN.
CONVEYING PARTY DATA	
Name	Execution Date
ARASH SHAHINPOUR	10/07/2019
ANDREAS ROBERT ZEMLA	10/08/2019
CHRISTIAN EITSCHBERGER	10/23/2019
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:	16515176
CORRESPONDENCE DATA	
Fax Number:	(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>	
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
ATTORNEY DOCKET NUMBER:	DMC042USDIV_CORRECTED
NAME OF SUBMITTER:	JANELLE A. O'NEILL
SIGNATURE:	/Janelle A. O'Neill/
DATE SIGNED:	11/14/2019

Total Attachments: 10

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT5624278

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ARASH SHAHINPOUR	03/28/2018
ANDREAS ROBERT ZEMLA	03/29/2018
CHRISTIAN EITSCHBERGER	04/03/2018
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:	16515176
CORRESPONDENCE DATA	
Fax Number:	(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>	
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
ATTORNEY DOCKET NUMBER:	DMC042USDIV
NAME OF SUBMITTER:	JANELLE A. O'NEILL
SIGNATURE:	/Janelle A. O'Neill/
DATE SIGNED:	07/18/2019
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
Arash		Shahinpour	of	Troisdorf	DE
Andreas	Robert	Zemla	of	Much	DE
Christian		Eitschberger	of	München	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	62/647,103	3/23/2018	FLUID-DISABLED DETONATOR AND METHOD OF USE
US	Utility	15/975,816	5/10/2018	FLUID-DISABLED DETONATOR AND METHOD OF USE
US	Utility	16/515,176	07/18/2019	FLUID-DISABLED DETONATOR AND PERFORATING GUN ASSEMBLY

(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

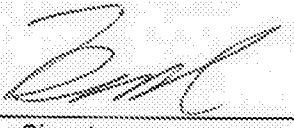
instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights in all countries including, but not limited to, any provisional, non-provisional, continuation, continuation-in-part, divisional, renewal or 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: 
Arash Shahinpour

Date: 7th October 2019

Witnessed by: 
Signature
ANDREAS FEMIA
Printed Name of Witness

Date: 7th Oct. 2019

Witnessed by: 
Signature
LIAM MCNELIS
Printed Name of Witness

Date: 7th Oct. 2019

INVENTOR 2

Signature: _____

Andreas Robert Zemla

Date: _____

8th October 2019

Witnessed by: _____

Signature

Frank Guziola

Printed Name of Witness

Date: _____

8th October 2019

Witnessed by: _____

Signature


Daniel Kampert

Printed Name of Witness


Date: _____

8th October 2019

INVENTOR 3

Signature: 
Christian Eltschberger

Date: 23.10.19

Witnessed by: 
Signature

Date: 23.10.19

Nadia Viannello
Printed Name of Witness

Witnessed by: 
Signature

Date: 23.10.2019

Andrei Nikolaev
Printed Name of Witness