

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT5465955

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
THILO SCHARF	04/26/2018
<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>
Application Number:	16379341
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(866)250-1636
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<b>ATTORNEY DOCKET NUMBER:</b>	DMC049US_TS_TO_DYNADE
<b>NAME OF SUBMITTER:</b>	JANELLE A. O'NEILL
<b>SIGNATURE:</b>	/JANELLE A. O'NEILL/
<b>DATE SIGNED:</b>	04/09/2019
<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 Last Name		Residence Town	Residence County	Residence Country
Thilo	Scharf	of	Letterkenny	Co.Donegal	Ireland

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:

Country of Filing	Type of Filing	Application Number	Filing Date	Title
US	Provisional	62/663,629	04/27/2018	DETONATION ACTIVATED WIRELINE RELEASE TOOL
US	Utility	16/379,341	04/09/2019	DETONATION ACTIVATED WIRELINE RELEASE TOOL

(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: Thilo Scharf  
Thilo Scharf

Date: 26-APR-2018

Witnessed by: Mairead Cullen  
Signature

Date: 26/4/2018

MAIREAD CULLEN  
Printed Name of Witness

Witnessed by: Anne Marie Scharf  
Signature

Date: 26/04/18.

ANNE MARIE SCHARF.  
Printed Name of Witness