

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CHRISTOPHER MALCOLM BIRKIN	09/18/2021
MICHIEL JACOBUS KRUGER	06/29/2021
RICHARD JOSEPH MICHNA	06/29/2021
ANDRE LOUIS KOEKEMOER	09/06/2021
RECEIVING PARTY DATA	
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17422639
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NAME OF SUBMITTER:	VICTOR E. LIBERT
SIGNATURE:	/Victor E. Libert/
DATE SIGNED:	01/25/2022
This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 4	

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DECLARATION AND ASSIGNMENT

Title of Invention: DETONATOR CONSTRUCTION

As a below named inventor, I hereby declare that:

This declaration is directed to:

☐ the attached application (Attorney Docket Number MDT0039US), or

☒ United States application or PCT international application number 17/422,639
filed on 07/13/2021.

The above-identified application is a national stage application of PCT International Application Number PCT/ZA2020/050006, filed on 24 January 2020, both the PCT and U.S. applications making a claim of priority based on South African Patent Application Number 2019/00554, filed 28 January 2019.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, each undersigned inventor has made certain inventions, improvements, and discoveries (herein referred to as the "INVENTION") disclosed in the above-identified patent application (herein referred to as the ("APPLICATION"));

Whereas, **DETNET SOUTH AFRICA (PTY) LTD.** having a place of business at AECI Place, The Woodlands, Woodlands Drive, Woodmead, 2191, Johannesburg, South Africa, (herein referred to as "ASSIGNEE"), desires to acquire, and each undersigned inventor desires to grant to ASSIGNEE, the entire worldwide right, title, and interest in and to the INVENTION and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the INVENTION, the APPLICATION, and any and all other patent applications and patents for the INVENTION which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, continuations-in-part, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the

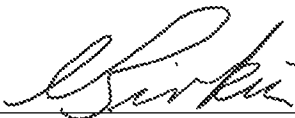
INVENTION, to ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to execute any and all lawful documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the INVENTION, the APPLICATION, and all related patents and applications, in ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by ASSIGNEE, its successors, legal representatives, and assigns.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

The undersigned hereby grant(s) the law firm of **Cantor Colburn LLP** the power to insert on this Declaration and Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

Legal Name of Inventor: Christopher Malcolm Birkin

September 18, 2021
Date


Christopher Malcolm Birkin

LEGALIZATION

(1) On this ____ day of _____, 2021, before me, a (*) _____ in and for the (**) _____, South Africa, personally appeared Christopher Malcolm Birkin, known to me to be the person of whose name is subscribed to this instrument, who executed this instrument in my presence and acknowledged that he executed the same for the purposes therein contained.


Name:

(*) Enter title of oath-administering official.

(**) Enter jurisdiction, e.g., county or province, etc.

Legal Name of Inventor: Michiel Jacobus Kruger

29 June, 2021
Date



Michiel Jacobus Kruger

LEGALIZATION

(I) On this ____ day of _____, 2021, before me, a ^(*) _____ in and for the ^(**) _____, South Africa, personally appeared Michiel Jacobus Kruger, known to me to be the person of whose name is subscribed to this instrument, who executed this instrument in my presence and acknowledged that he executed the same for the purposes therein contained.


Name:

(*) Enter title of oath-administering official.

(**) Enter jurisdiction, e.g., county or province, etc.

Legal Name of Inventor: Richard Joseph Michna

June 29, 2021
Date



Name: Richard Joseph Michna

State of Connecticut)
)ss.:
County of Hartford)

On this ____ day of _____, 2021, before me, a Notary Public in and for the State and County aforesaid, personally appeared Richard Joseph Michna, known or satisfactorily proven to me to be the person of whose name is subscribed to this instrument, who acknowledged that he executed the same for the purposes therein contained.

_____, 2021
Date

Notary Public
My Commission Expires:

Legal Name of Inventor: Andre Louis Koekemoer

6 - 9, 2021
Date


Andre Louis Koekemoer

LEGALIZATION

(1) On this ____ day of _____, 2021, before me, a (*) _____ in and for the (**) _____, South Africa, personally appeared Andre Louis Koekemoer, known to me to be the person of whose name is subscribed to this instrument, who executed this instrument in my presence and acknowledged that he executed the same for the purposes therein contained.

Name:

(*) Enter title of oath-administering official.

(**) Enter jurisdiction, e.g., county or province, etc.

Legal Name of Inventor: Mark Ivan Jurras, III

22 Sept., 2021
Date


Name: Mark Ivan Jurras, III

State of Connecticut)
)ss.:
County of Hartford)

On this ____ day of _____, 2021, before me, a Notary Public in and for the State and County aforesaid, personally appeared Mark Ivan Jurras, III, known or satisfactorily proven to me to be the person of whose name is subscribed to this instrument, who acknowledged that he executed the same for the purposes therein contained.

_____, 2021
Date

Notary Public
My Commission Expires: