

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5888640

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
KI WON HWANG	12/24/2019
SUNG HO LEE	12/24/2019
RECEIVING PARTY DATA	
Name:	HANWHA CORPORATION
Street Address:	86, CHEONGGYECHEON-RO JUNG-GU
City:	SEOUL
State/Country:	KOREA, REPUBLIC OF
Postal Code:	04541
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16627656
CORRESPONDENCE DATA	
Fax Number:	(571)395-8573
<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:	7038273800
Email:	patentmail@whda.com
Correspondent Name:	WESTERMAN HATTORI DANIELS & ADRIAN LLP
Address Line 1:	8500 LEESBURG PIKE SUITE 7500
Address Line 4:	TYSONSVA, VIRGINIA 22182
ATTORNEY DOCKET NUMBER:	P191409US00
NAME OF SUBMITTER:	YOLIDIA A. PASOS
SIGNATURE:	/YOLIDIA A. PASOS/
DATE SIGNED:	12/30/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 2	
source=P191409US00_Combined_DecAssignment_12-30-2019#page1.tif	
source=P191409US00_Combined_DecAssignment_12-30-2019#page2.tif	

Docket No.:

Westerman, Hattori, Daniels & Adrian, LLP

Combined Declaration and Assignment for Utility Patent and Design Patent Applications

DECLARATION

As a below named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

Insert Title:

BLASTING SYSTEM INCLUDING ELECTRIC DETONATOR

the application of which is attached hereto unless the following is checked

was filed on _____ as United States Application Number _____ and was filed on _____ as PCT International Application Number _____ and was amended on _____ (if applicable).

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

I hereby acknowledge that any willful false statement made in this declaration is punishable under section 1001 of title 18 by fine or imprisonment of not more than 5 years, or both.

ASSIGNMENT

FOR GOOD AND VALIABLE CONSIDERATION, the adequacy and receipt of which is hereby acknowledged by the undersigned inventor(s) (hereinafter ASSIGNOR) by

Insert Assignee(s)
Name/Address:

HANWHA CORPORATION

having address at (Janggyo-dong) 86, Cheonggyecheon-ro, Jung-gu, Seoul 04541,
Republic of Korea

(hereinafter ASSIGNEE), the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest in the above-identified application (e.g., provisional or non-provisional) and all Letters Patent of the United States to be obtained thereon or any continuation, divisional, substitute, reissue, reexamination, supplemental examination, inter partes review, post grant review, or other procedures thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with the application and any continuation, divisional, reissue, reexamination, supplemental examination, inter partes review, post grant review, or other procedures thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, reissue or reexamination, supplemental examination, inter partes review, post grant review, or other procedures thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

The ASSIGNOR sells, assigns and transfers to said ASSIGNEE the entire and exclusive right, title and interest in the application(s) and the invention(s) disclosed therein for the United States of America and all countries foreign to the United States and do hereby authorize said ASSIGNEE to apply for patents therefore in its own name in countries where such

Docket No.:

Westerman, Hattori, Daniels & Adrian, LLP

procedure is proper and to claim the priority right under the International Convention and agrees to execute all papers necessary in connection with applications for such patents and any continuation, divisional, substitute, reissue or reexamination, supplemental examination, inter partes review, post grant review, or other procedures thereof and also execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

Hereby executed by the undersigned on the date opposite the undersigned name:

Legal Name of inventor ⇄ HWANG, KI WOO Date: December 24, 2019

Inventor's Signature ⇄ [Handwritten signature: 황기우]

Legal Name of inventor ⇄ LEE, Sung Ho Date: December 24, 2019

Inventor's Signature ⇄ [Handwritten signature: 이성호]

Legal Name of inventor ⇄ Date:

Inventor's Signature ⇄

Legal Name of inventor ⇄ Date:

Inventor's Signature ⇄

Legal Name of inventor ⇄ Date:

Inventor's Signature ⇄

Legal Name of inventor ⇄ Date:

Inventor's Signature ⇄

Note: Use an additional form for each additional inventor.