### 504199793 01/27/2017

# **PATENT ASSIGNMENT COVER SHEET**

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4246469

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
KYUNG PYO HONG	01/17/2017
SUJIT KUMAR MAHAPATRO	01/17/2017
YUN SEOK KWON	01/17/2017
HEE GYU BAEK	01/17/2017

### **RECEIVING PARTY DATA**

Name:	HANWHA TECHWIN CO., LTD.
Street Address:	1204, CHANGWON-DAERO, SEONGSAN-GU, GYEONGSANGNAM-DO
City:	CHANGWON-SI
State/Country:	KOREA, REPUBLIC OF

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15417456

#### **CORRESPONDENCE DATA**

**Fax Number:** (202)293-7860

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.

**Email:** cpace@sughrue.com, sughrue@sughrue.com

Correspondent Name: CHARLIEPWINDSOR

Address Line 1: 2100 PENNSYLVANIA AVE NW

Address Line 2: SUITE 800

Address Line 4: WASHINGTON, D.C. 20037

ATTORNEY DOCKET NUMBER:	Q230610
NAME OF SUBMITTER:	CHARLES PACE
SIGNATURE:	/Charles Pace/
DATE SIGNED:	01/27/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

**Total Attachments: 2** 

source=Q230610Declarationexecuted#page1.tif source=Q230610Declarationexecuted#page2.tif

PATENT 504199793 REEL: 041537 FRAME: 0591

Docket No.: Q230610 Only After Sept 16, 2012

# ASSIGNMENT WITH DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)

Whereas, I/We, the undersigned inventor(s) hereinafter called assignor(s), have invented certain improvements described in the application identified below; and

Whereas, Hanwha Techwin Co., Ltd. of 1204, Changwon-daero, Seongsan-gu, Changwon-si, Gyeongsangnam-do, Republic of Korea, (assignee), desires to acquire the entire right, litie, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America and all other countries, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and including rights of priority under the International Convention of Paris (1883) as amended, the laws of all foreign countries, and the laws of the United States including the right to claim priority under 35 USC 119 and the right to sue for past damages, and I/we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we hereby agree that the assignee may apply for foreign Letters Patent on the invention and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

(Legalization not required for recording	g but i	is prima facie evidence of execution under 35 USC 261)
As the below named invontor, I hereby	decla	re that:
This assignment with declaration is directed to:	<b>1</b>	The attached application, or
		United States Application or PCT International Application Number
The application is emitted:		

# QUANTIZATION PARAMETER DETERMINATION METHOD AND IMAGE CAPTURE APPARATUS

The above identified application was made or was 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 for which this assignment with declaration is being submitted.

I am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR 1.56.

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

PATENT REEL: 041537 FRAME: 0592

NAME OF SOLE OR F	IRST INVENTOR:	·		
Gîven Name				
(first and middle [if any])	Kyung Pyo	Family Name or Surname	HONG	
inventor's signature	ÀP	Date	2019,01,19	
110 7 50 1000 17 177 (1000 100 100 100 100 100 100 100 100 1	<u> </u>		***************************************	
	n-si, Republic of Korea			
	Hanwha Techwin Co., Ltd. 1204, Changwon-d ublic of Korea	aero, Seongsan-gu,Changwon-si	, Gyeongsangnam-do,	
NAME OF SECOND IN	VENTOR:			
Given Name (first and middle [if any])	Sujú Kumar,	Family Name or Surname	MAHAPATRO	
Inventor's signature	Signal and the second s	Date	2017, 01.19	
THACHOL 8 SHURING		1 22110	***************************************	
Residence: India				
	Hanwha Techwin Co., Ltd. 1204, Changwon-d ublic of Korea	aero, Seongsan-gu,Changwon-si	, Gyeongsangnam-do,	
NAME OF THIRD INV				
Given Name				
(first and middle [if any])	Yun Seek	Family Name or Surname	KWON	
Inventor's signature		Date	2019.01.19	
THACTERY 2 STRITTERS			······································	
	n-si, Republic of Korea			
c/o Hanwha Techwin Co., Ltd. 1204, Changwon-daero, Scongsan-gu,Changwon-si, Gyeongsangnam-do, Mailing Address: Republic of Korea				
NAME OF FOURTH INVENTOR:				
Given Name				
(first and middle [if any])	Hee Gyu Family Name or Surname BAEK			
Inventor's signature		Date "	2011, 01,19	
Residence: Changwon-si, Republic of Korea				
Mailing c/o Hanwha Techwin Co., Ltd. 1204, Changwon-daero, Seongsan-gu, Changwon-si, Gyeongsangnam-do, Address: Republic of Korea				
Comercia. Confin	ALIAN AL VALLE AND			

PATENT REEL: 041537 FRAME: 0593

**RECORDED: 01/27/2017**