505665466 09/11/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5712273

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
KENNETH WILLIAM KRATSCHM	IAR	08/28/2019
XIANMING JIMMY LI		08/27/2019
CULLEN HALL		08/28/2019
EDWARD YOUN		08/28/2019
JEFF ALLEN		08/29/2019

RECEIVING PARTY DATA

Name:	CHINA ENERGY INVESTMENT CORPORATION LIMITED
Street Address:	NO. 22, XIBINHE ROAD, ANDINGMEN
Internal Address:	DONGCHENG DISTRICT
City:	BEIJING
State/Country:	CHINA
Postal Code:	100011
Name:	NATIONAL INSTITUTE OF CLEAN-AND-LOW-CARBON ENERGY
Street Address:	NO. 9, BINHE AVENUE, FUTURE SCIENCE
Internal Address:	CITY, CHANGPING DISTRICT
City:	BEIJING
State/Country:	CHINA
Postal Code:	102211

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16564241

CORRESPONDENCE DATA	
Fax Number:	(703)683-1080
	o the e-mail address first; if that is unsuccessful, it will be sent d; if that is unsuccessful, it will be sent via US Mail.
Phone:	7036830500
Email:	mail@baconthomas.com
Correspondent Name:	BACON & THOMAS PLLC - THOMAS LEE
Address Line 1:	625 SLATERS LANE
Address Line 2:	4TH FLOOR

505665466

PATENT

Address Line 4: ALEX	ANDRIA, VIRGINIA 22314
ATTORNEY DOCKET NUMBER:	KRAT3002/TJM/TL
NAME OF SUBMITTER:	THOMAS LEE
SIGNATURE:	/Thomas Lee/
DATE SIGNED:	09/11/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 4	
source=KRAT3002_Dec_Assgnmnt_1#	page1.tif
source=KRAT3002_Dec_Assgnmnt_1#	page2.tif
source=KRAT3002_Dec_Assgnmnt_1#	page3.tif
source=KRAT3002_Dec_Assgnmnt_1#	page4.tif

Attorney Ref:

DECLARATION AND ASSIGNMENT

DECLARATION

TITLE OF INVENTION:

As a below named inventor, I hereby declare that:

This declaration is directed to:

The accompanying utility or design patent application, or

United States application or PCT international application number:

filed on

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

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

3. 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.

By signing this declaration, the inventor(s) confirms that the application, including the claims, has been read and understood and that the inventor is aware of the duty to disclose to the U.S. Patent and Trademark Office all information known to the inventor(s) to be material to patentability as defined in 37 CFR§1.56.

ASSIGNMENT

WHEREAS, I (we), the below named inventor, hereinafter referred to as ASSIGNOR, is the or an owner of certain new and useful improvements in the above identified application (hereinafter referred to as the INVENTION).

WHEREAS, <u>CHINA ENERGY INVESTMENT CORPORATION LIMITED</u> and <u>NATIONAL INSTITUTE OF</u> <u>CLEAN-AND-LOW-CARBON ENERGY</u>

whose post office address is/are <u>No. 22. Xibinhe Road. Andingmen. Dongcheng District. Beijing.</u> <u>China, 100011</u> and <u>No.9. Binhe Avenue. Future Science City. Changping District. Beijing. China, 102211</u>

hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the INVENTION in the United States;

 \boxtimes and in any foreign countries.

PATENT REEL: 050336 FRAME: 0417 NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged. (we), ASSIGNOR, by these presents do sell, assign and transfer unio said ASSIGNEE, the entire right, title, and interest in and to said INVENTION and application throughout the United States of America, including any and all Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application.

ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) in the United States for said INVENTION, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said INVENTION, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE'S expense, to identify and communicate to ASSIGNOR's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under this instrument shall extend to ASSIGNOR'S heirs, executors, administrators and other legal representatives.

ALSO, ASSIGNOR hereby authorizes and requests the Commissioner of Patents and/or the Director of the United States Patent and Trademark Office (USPTO) to issue any and all Letters Patent referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE'S sole use and behoof; and for the use and behoof of ASSIGNEE'S legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

ASSIGNOR authorizes any member of the firm of Bacon & Thomas, PLLC, USPTO Customer No. 23364, to insert or complete any information in the assignment portion of this document needed to effect its recordal in the USPTO.

LEGAL NAM	AE OF INVENTOR/ASSIGNOR		
Name:	Kenneth William KRATSCHMAR	Date:	8/28/2019
Signature:	Care S		

LEGAL NAM	ME OF ADDITIONAL INVENTOR/ASSIGNOR		······································
Name:	Xianming Jimmy LI	Date:	8/27/2019
Signature:	Æ		

LEGAL NA	ME OF ADDITIONAL INVENTO	R/ASSIGNOR	
Name:	Cullen HALL	Date:	
Signature:			

LEGAL NAM	AE OF ADDITIONAL INVENTOR/ASSIGNOR		
Name:	Edward YOUN	Date:	8/28/2019
Signature:	hom		

LEGAL NAM	ME OF ADDITIONAL INVENTOR/A	ASSIGNOR	
Name:	Jeff ALLEN	Date:	8/07/26/9
Signature:			
	ll		

LEGAL NAI	ME OF ADDITIONAL INVENTOR/A:	SSIGNOR	
Name:	Xianming Jimmy LI	Date:	
Signature:			

LEGAL NAM	1E OF ADDITIONAL INVENTO	R/ASSIGNOR			
Name:	Cullen HALL	(Date:	28 AUG. 201	19
Signature:	tit	5AM			

Name:	Edward YOUN	Date:	
		LL	······
Signature			

LEGAL NAME OF ADDITIONAL INVENTOR/ASSIGNOR					
Name:	Jeff ALLEN	Date:			
Signature:					

PATENT REEL: 050336 FRAME: 0420

RECORDED: 09/11/2019