505162317 10/26/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
XIAOZHOU LIU	09/05/2018
YU ZHANG	09/05/2018
WENXING LIU	09/05/2018

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15563456

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ATTORNEY DOCKET NUMBER:	5012.01WOUS01
NAME OF SUBMITTER:	RACHEL GAGLIARDI
SIGNATURE:	/Rachel Gagliardi/
DATE SIGNED:	10/26/2018

Total Attachments: 5

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PATENT 505162317 REEL: 047330 FRAME: 0565

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PATENT REEL: 047330 FRAME: 0566

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/we, as the undersigned named inventor(s), have sold, assigned and transferred, and/or by these presents do hereby sell, assign and transfer my/our entire right, title and interest for all countries in and to all inventions disclosed in the application entitled

an inventions disclosed in the application entities	Au .			
CIRCULAR FLUIDIZING BED COME	BUSTION SYSTEM WITH UNIFORM ,			
AIRFLOW DISTRIBUTING DEVICE				
of				
Application No.: 15/563,456	Filing Date: 9/29/2017			
by				
Xiaozhou Liu, Yu Zhang, Wenxing Liu,	,			
unto the following Assignee:				
GUANGDONG UNIVERSITY OF TECHNOLOGY				
with a principal place of business at				
No. 100 Waihuan Xi Road, Guangzhou	Higher Education Mega Center, Panyu			
District, Guangzhou City, GD, 510006 China				

For purposes of this assignment, Assignee shall include successors and assigns.

Such assignment in and to the application shall include any utility applications, design applications, divisional applications, continuation applications, continuation-in-part applications or any other applications entitled to claim priority thereto, all Letters Patent which may be granted therefrom, and all reissues, reexaminations, reviews, oppositions, certificates and/or extensions of such Letters Patent, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions including an assignment of all rights under the provisions of the Paris Convention for the Protection of Industrial Property and further including the right to sue, counterclaim and recover for past, present and future infringement of the rights assigned or to be assigned, as fully and entirely as the same would have been held by the undersigned if this assignment had not been made, and I/we do hereby authorize and request the Commissioner of Patents to issue the Letters Patent to Assignee.

I/We further authorize Assignee, or anyone it may properly designate, to apply for Letters Patent, in its own name if desired, in the U.S. and any and all foreign countries, and additionally to claim priority to the filing date of the applications and otherwise take advantage of the provisions of the Paris Convention, and request the issuance of any and all Letters Patent for the inventions to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee.

I/We do hereby covenant and agree with Assignee, that I/we will not execute in writing or do any act whatsoever conflicting with these presents, and that I/we or my/our executors or administrators will at any time upon request, without further or additional consideration, but at the expense of Assignee, make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to Assignee and its representatives all facts known to us relating to the inventions and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in Assignee, the entire right, title and interest in and to the improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

I/We covenant and agree with Assignee that no assignment, grant, mortgage, license, option or other agreement affecting the rights and property herein conveyed has been made to others by me/us and that full right to convey the same as herein expressed is possessed by me/us.

I/We hereby authorize Assignee, or anyone it may properly designate, to insert the filing date, application number, title and any other indicia identifying the application herein when ascertained.

Delivery of this Assignment by copy, however transmitted, constitutes valid and effective delivery. This Assignment may be executed in one or more counterparts, each of which when so

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Attorney Docket No. 5012.01WOUS01 Client Reference No. OP1740801TUS

ASSIGNMENT (EXECUTION PAGE)

executed and delivered shall be an original, and such counterparts shall together constitute one and the same instrument.

PATENT PATENT REEL: 047330 FRAME: 0568

ASSIGNMENT (EXECUTION PAGE)

Patent Application Title:

CIRCULAR FLUIDIZING BED COMBUSTION SYSTEM WITH UNIFORM AIRFLOW

DISTRIBUTING DEVICE

Country (or "PCT"):

U.S.

Application No.:

15/563,456

Filing Date:

9/29/2017

Inventor/Assignor:

Legal Name of Inventor:

Xiaozhou Liu

Inventor Signature:

Xiaozhou Liu

05/09/2018

Date:

Inventor Address (city, country): Guangzhou City, Guangdong CHINA

Inventor Citizenship:

ASSIGNMENT (EXECUTION PAGE)

Patent Application Title: CIRCULAR FLUIDIZING I DISTRIBUTING DEVICE	BED COMBUSTION SYSTEM WITH UNIFORM AIRFLOW
Country (or "PCT"): Application No.: Filing Date:	U.S. 15/563,456 9/29/2017
Inventor/Assignor: Legal Name of Inventor:	Yu Zhang
Inventor Signature:	Yu Zhang
Date:	05/09/2018
Inventor Address (city, country): Inventor Citizenship:	Guangzhou City, Guangdong CHINA

ASSIGNMENT (EXECUTION PAGE)

Patent Application Title: CIRCULAR FLUIDIZING DISTRIBUTING DEVICE	BED COMBUSTION	SYSTEM	WITH	UNIFORM	AIRFLOW
Country (or "PCT"): Application No.: Filing Date:	U.S. 15/563,456 9/29/2017		٠.		
Inventor/Assignor: Legal Name of Inventor:	Wenxing Liu		. S		**************************************
Inventor Signature:	Wenxin	<u>Jiu</u>		3 3	
Date:	<u> </u>	12018			na n
Inventor Address (city, country): Guangzhou City, Guangdong CHINA					
Inventor Citizenship:					et e

RECORDED: 10/26/2018