

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
QUANGANG XIAN	12/31/2019
ZHONGYUAN ZHANG	12/31/2019
HAO JIN	12/31/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	INSTITUTE OF METAL RESEARCH, CHINESE ACADEMY OF SCIENCES
<b>Street Address:</b>	NO. 72 WENHUA ROAD, SHENHE DISTRICT
<b>City:</b>	SHENYANG
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	110016
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16644460
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
<b>Phone:</b>	626 478 8115
<b>Email:</b>	TSZLY390@GMAIL.COM
<b>Correspondent Name:</b>	TSZ LUNG YEUNG
<b>Address Line 1:</b>	333 W. GARVEY AVENUE
<b>Address Line 2:</b>	SUITE B 586
<b>Address Line 4:</b>	MONTEREY PARK, CALIFORNIA 91754
<b>ATTORNEY DOCKET NUMBER:</b>	HY-USU-A24
<b>NAME OF SUBMITTER:</b>	TSZ LUNG YEUNG
<b>SIGNATURE:</b>	/Tsz Lung Yeung/
<b>DATE SIGNED:</b>	03/04/2020
<b>Total Attachments: 1</b>	
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ASSIGNMENT

WHEREAS XIAN, Quangang, ZHANG, Zhongyuan and JIN, Hao, whose mailing address are No. 72, Wenhua Road, Shenhe District, Shenyang, Liaoning 110016, China, hereafter referred to as the ASSIGNORS,

have invented certain new and useful improvements in an invention relating to and entitled METHOD FOR GROWING LARGE-SIZE CRYSTAL BY LASER ASSISTED HEATING AND DEDICATED DEVICE, the invention, as fully set forth and described in an application for Letters Patent to be filed at the United States Patent and Trademark Office as US National Stage under 35 USC 371 of PCT/CN2019/000103 and naming the assignors as inventors;

AND WHEREAS Institute of Metal Research, Chinese Academy of Sciences of Shenyang, China, whose mailing address is No. 72, Wenhua Road, Shenhe District, Shenyang, Liaoning 110016, China; the assignee, is desirous of acquiring the entire right, title and interest in and to said invention, and in and to Any Letters Patent that may be obtained therefor;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, receipt of which is hereby acknowledged, the assignors, do hereby confirm that they have sold, assigned and transferred, and do hereby sell, assign and transfer to the assignee the full and exclusive right to the said invention in the United States and their entire right, title and interest for the United States in and to the invention, together with their entire right, title and interest in and to said application, any and all divisional applications thereof, and any and all Letters Patent of the United States which may issue or be reissued for the invention;

AND the assignors hereby authorize and request the Director of the United States Patent and Trademark Office to issue to said assignee of any and all said Letters Patent not already issued as the assignee of their entire right, title and interest in and to the same, for the sole use and benefit of said assignee, its successors, assigns or legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by the assignors had this assignment and sale not been made.

AND the assignors, on behalf of themselves and their executors and administrators, hereby covenant and agree to do all such lawful acts and things and to execute without further consideration such further lawful assignments, documents, assurances, applications, and other instruments as may reasonably be required by said assignee, its successors, assigns or legal representatives, to obtain any and all Letters Patent of the United States for said invention and vest the same in said assignee, its successors, assigns or legal representatives.

The assignors and the assignee hereby authorize and request my attorney, Tsz Lung Yeung, of 333 W Garvey Ave., #B 586, Monterey Park, CA 91754, US, to insert here in parentheses (Application number \_\_\_\_\_, filed \_\_\_\_\_) then filing date and application number of said application when known."

SIGNED on this 31th day of Dec, 2019

SIGNED on this 31th day of Dec, 2019

XIAN, Quangang [Signature]  
XIAN, Quangang

ZHANG, Zhongyuan [Signature]  
ZHANG, Zhongyuan

SIGNED on this 31th day of Dec, 2019

JIN, Hao [Signature]  
JIN, Hao