

<b>PATENT ASSIGNMENT COVER SHEET</b>
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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>
ZHICHAO MA	12/09/2020
SHUAI TONG	12/09/2020
DONGNI LIU	12/09/2020
WEIZHI LI	12/09/2020
SHENGTENG ZHAO	12/09/2020
GUOLIN XIAO	12/09/2020
HAIRUI DU	12/09/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	JILIN UNIVERSITY
<b>Street Address:</b>	NO. 2699, QIANJIN STREET
<b>City:</b>	CHANGCHUN CITY, JILIN
<b>State/Country:</b>	CHINA
<b>Postal Code:</b>	130000
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17136927
<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>	
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<b>ATTORNEY DOCKET NUMBER:</b>	00674-NP-BEIJING
<b>NAME OF SUBMITTER:</b>	THOMAS H. STANTON
<b>SIGNATURE:</b>	/Thomas H. Stanton/
<b>DATE SIGNED:</b>	12/29/2020

PATENT

**Total Attachments: 2**

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ASSIGNMENT

In consideration of Ten Dollars (\$10.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned, Zhichao MA, Shuai TONG, Dongni LIU, Weizhi LI, Shengteng ZHAO, Guolin XIAO and Hairui DU (hereinafter referred to as "Assignor(s)");

Hereby sell, assign and transfer to JILIN UNIVERSITY, (hereinafter referred to as "Assignee"), having its principal place of teaching at No.2699, Qianjin Street, Changchun City, Jilin 130000, China, its successors, assigns and legal representatives, the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Patent, which has been executed by the undersigned concurrently herewith and is entitled:

**METAL ADDITIVE MANUFACTURING EXTRUSION MECHANISM FOR MONITORING  
AND IMPROVING MECHANICAL PROPERTIES IN SITU**

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on said improvements;

Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name, and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and said improvements; execute all rightful oaths, assignments, powers of attorney and other papers, communicate to said Assignee, its successors, assigns and legal representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or legal representatives shall consider desirable for aiding in securing and

maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: December 9, 2020  
Month/Day/Year

Zhichao MA  
Zhichao MA

Date: December 9, 2020  
Month/Day/Year

Shuai TONG  
Shuai TONG

Date: December 9, 2020  
Month/Day/Year

Dongni LIU  
Dongni LIU

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Month/Day/Year

Weizhi LI  
Weizhi LI

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Month/Day/Year

Shengteng ZHAO  
Shengteng ZHAO

Date: December 9, 2020  
Month/Day/Year

Guolin XIAO  
Guolin XIAO

Date: December 9, 2020  
Month/Day/Year

Hairui DU  
Hairui DU