

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
QIULIN MA	07/31/2017
KAI HUEI CHANG	07/31/2017
EVAN P. GREEN	07/31/2017
JAMES E. BEAVERS JR.	07/31/2017
CARL PONADER	08/03/2017
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15813669
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ATTORNEY DOCKET NUMBER:	187250-3133
NAME OF SUBMITTER:	SHEILA VICTOR
SIGNATURE:	/Sheila Victor/
DATE SIGNED:	04/19/2018
Total Attachments: 2	

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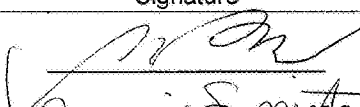
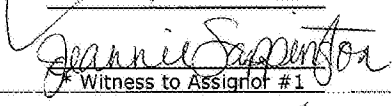
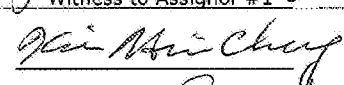
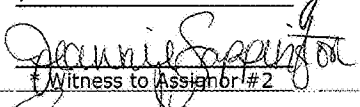
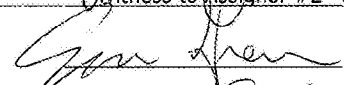
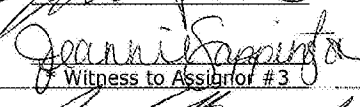

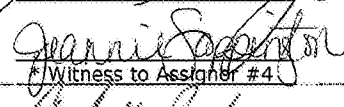

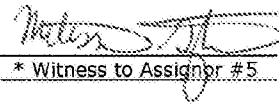
ASSIGNMENT - Patent Application		Docket Number: 187250-3075
Whereas, the Assignor, comprising the following named inventors:		
ASSIGNOR(s)/ INVENTOR(s)	1. Qiulin Ma	2. Kai Huei Chang
	3. Evan P. Green	4. James E. Beavers Jr.
	5. Carl Ponader	6.
made an invention entitled: UPWARD COLLAPSE PROCESS AND APPARATUS FOR MAKING GLASS PREFORMS		
for which an application for Letters Patent of the United States: (Select one of the following): <input type="checkbox"/> is executed concurrently herewith <input checked="" type="checkbox"/> was filed in the U.S. Patent and Trademark Office on November 22, 2016 , as U.S. Patent Application Serial No. 62/425,274		
ASSIGNEE (Full Name and Address)	HERAEUS TENEVO LLC 100 Heraeus Boulevard Buford, Georgia 30518 US	
<p>is desirous of acquiring the entire interest in and to said invention and the Letters Patent to be obtained therefor,</p> <p>Now, therefore, in consideration of the payment by Assignee to Assignor of a sum corresponding to One Dollar (\$1.00), and for other good and valuable consideration, the receipt of which is hereby acknowledged, Assignor, intending to be legally bound, hereby sells, assigns and transfers to Assignee, its successors and assigns the full and exclusive right, title and interest in and to said invention, all applications for Letters Patent for said invention, including all divisions, continuations, and continuations-in-part thereof, all rights to claim priority based thereon, and all Letters Patent, including reissues, to be obtained therefor, including any and all foreign patent rights in this invention corresponding thereto.</p> <p>Assignor hereby warrants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment.</p> <p>Assignor agrees it shall be legally bound, upon request of the Assignee or its successors or assigns or a legal representative thereof, to supply all information and evidence of which the Assignor has knowledge or possession, relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention in the United States of America and foreign countries in the name of the Assignee, and to execute all instruments proper to carry out the intent of this instrument.</p> <p>If the invention requires a biological deposit, Assignor also grants to Assignee such control over any deposit made by Assignor as may be necessary to the validity of the patent rights assigned herein.</p>		

ASSIGNMENT - Patent ApplicationDocket Number: **187250-3075**

Assignor authorizes Assignor's attorney to insert at the end hereof, the serial number and filing date of the aforesaid application for United States Letters Patent and/or the Attorney Docket or file designation for this application if not identified above.

If the Assignor includes more than one individual, these obligations shall apply to these individuals both individually and collectively.

In witness whereof, this Assignment is executed on the day indicated below.

Typed or Printed Name	Signature	Date
1. Qiulin Ma		<u>7/31/2017</u>
	 * Witness to Assignor #1	<u>7/31/2017</u>
2. Kai Hwei Chang		<u>7/31/2017</u>
	 * Witness to Assignor #2	<u>7/31/2017</u>
3. Evan P. Green		<u>7/31/2017</u>
	 * Witness to Assignor #3	<u>7/31/2017</u>
4. James E. Beavers Jr.		<u>7/31/2017</u>
	 * Witness to Assignor #4	<u>7/31/2017</u>
5. Carl Ponader		<u>8/3/2017</u>
	 * Witness to Assignor #5	<u>8/3/2017</u>
6.	_____	_____
	_____	_____
	* Witness to Assignor #6	

Application for United States Letters Patent:

Serial No.: **62/425,274**Filed: **November 22, 2016**Attorney Docket Number: **187250-3075**Total Number of Assignment Pages **2**

* Witness signature recommended, mandatory for some countries