

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT7171065

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BRADFORD SHATTUCK COLLINS	02/09/2022
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SAPPHIRE SYSTEMS, INC.
<b>Street Address:</b>	19A CROSBY DRIVE #10
<b>City:</b>	BEDFORD
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01730
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17667505
<b>Application Number:</b>	17667507
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(919)869-1738
<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>	9193867240
<b>Email:</b>	todd@ascentagelaw.com
<b>Correspondent Name:</b>	TRAVIS LEE JOHNSON
<b>Address Line 1:</b>	1135 KILDAIRE FARM ROAD, SUITE 200
<b>Address Line 2:</b>	ASCENTAGE PATENT LAW, LLC
<b>Address Line 4:</b>	CARY, NORTH CAROLINA 27511
<b>ATTORNEY DOCKET NUMBER:</b>	SAP-003-NP
<b>NAME OF SUBMITTER:</b>	TRAVIS LEE JOHNSON
<b>SIGNATURE:</b>	/Travis Lee Johnson/
<b>DATE SIGNED:</b>	02/11/2022
<b>Total Attachments: 1</b>	
source=2022_02_09 Assignment_SAP_003_NP_Bradford_Collins_signed#page1.tif	

## ASSIGNMENT OF PATENT APPLICATION

FOR GOOD AND VALUABLE CONSIDERATION,

I, the undersigned, hereby agree to assign for good and valuable consideration, receipt of which is hereby expressly acknowledged, and do hereby sell, assign, and transfer unto:

**Sapphire Systems, Inc.** being located at **19A Crosby Drive #10, Bedford, MA 01730**

an entity organized under the laws of the state of **Delaware** as Assignee, and its successors, assigns, and legal representatives, all my right, title, and interest, for all countries in and to (i) certain inventions relating to:

### **INTEGRATED CRUCIBLE AND DIE SYSTEM FOR SAPPHIRE SHEET GROWING**

as described in U.S. N0n-Provisional application 17/667,505 filed February 8, 2022,

### **TARGETED HEAT CONTROL SYSTEM AND METHOD FOR INTEGRATED CRUCIBLE AND DIE SYSTEM FOR SAPPHIRE SHEET GROWING**

as described in U.S. N0n-Provisional application 17/667,507 filed February 8, 2022,

the invention(s) and improvement(s) set forth therein and (ii) said patent applications, any patent application claiming the benefit thereof, and any, and all continuations, continuations-in-part, divisionals, and renewals of and substitutes for said patent application, and (iii) all the rights and privileges under any and all patents that may be granted therefore in any country and any reissues, or reexaminations, or extensions of the patents. I request that any and all patents for the inventions be issued to the Assignee, its successors, assigns, and legal representatives, or to such nominees as it may designate.

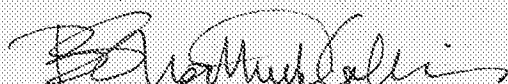
I agree that when requested, I will, without charge to the Assignee but at its expense, sign all papers, take all rightful oaths, and do all acts that may be necessary, desirable, or convenient for securing and maintaining patents for the inventions, in any and all countries and for vesting title thereto in the Assignee, its successors, assigns, and legal representatives or nominees.

I authorize and empower the Assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for the inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file, or like document that may be required in any country for any purpose and more particularly in proof of the right of the Assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International convention which may hence forth be substituted for it.

I covenant with the Assignee, its successors, assigns, and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance and that I have full right to convey the same as herein expressed.

IN WITNESS WHEREOF, I have hereunto signed my name on the day and year set forth below



Inventor's Signature

2/9/2022  
Date

Bradford Shattuck Collins  
Inventor's Printed Name