506376552 11/30/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT6423308

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ROMAN V. DRACHEV	09/11/2014
SANTHANARAGHAVAN PARTHASARATHY	11/30/2020
ANDRIY M. ANDRUKHIV	09/10/2014
DAVID S. LYTTLE	09/12/2014

RECEIVING PARTY DATA

Name:	GTAT CORPORATION
Street Address:	5 WENTWORTH DRIVE
Internal Address:	UNIT # 1
City:	HUDSON
State/Country:	NEW HAMPSHIRE
Postal Code:	03051

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17107103

CORRESPONDENCE DATA

Fax Number: (617)507-3061

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.

Phone: 617-913-1996

Email: patent@bigiplaw.com, alexandra.goodwin@bigiplaw.com

BEHMKE INNOVATION GROUP LLC **Correspondent Name:**

ONE MARINA PARK DRIVE Address Line 1:

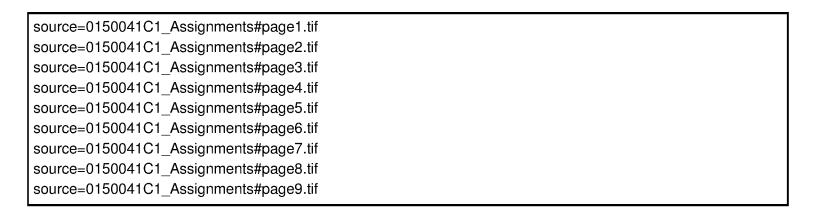
Address Line 2: **SUITE 1410**

Address Line 4: BOSTON, MASSACHUSETTS 02210

ATTORNEY DOCKET NUMBER:	0150041.C1
NAME OF SUBMITTER:	JONATHON P. WESTERN
SIGNATURE:	/Jonathon P. Western/
DATE SIGNED:	11/30/2020
	•

Total Attachments: 9

PATENT REEL: 054493 FRAME: 0465 506376552



PATENT REEL: 054493 FRAME: 0466

ASSIGNMENT BY INVENTORS

THIS	ASSIGNMENT, made this	day of	, by
Roman V. Drach	ev; Santhanaraghavan Parthasarati	ıy; Andriy M. And	lrukhiv; and David S.
Lyttle (hereinafte	er referred to as Assignors), residin	g at 38 Hawthorn	Drive #E303, Bedford
New Hampshire	03110; 2 Normandy Way, Nashua	ı, New Hampshire	03063; 3 Baxter Road,
Hollis, New Han	ipshire 03049; and P.O. Box 763,	Amherst, New Ha	mpshire 03031,
respectively;			

WHEREAS, Assignors have invented certain new and useful improvements in APPARATUS FOR PRODUCING BULK SILICON CARBIDE, set forth in a Patent application for Letters Patent of the United States, filed hexavitagenal September 5, 2014 as U.S. Application Serial No. 14/478,608; and

WHEREAS, GTAT Corporation, a corporation organized under and pursuant to the laws of Delaware having its principal place of business at 243 Daniel Webster Highway, Merrimack, New Hampshire 03054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

1

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns that: Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise; that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; and, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

EDWARDS WILDMAN PALMER LLP

2

All practitioners at Customer Number 21874

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Roman V. Drachev

United States of America
State of
County of

On this

| County of | County

JESSICA TROW Notary Public-New Hampshire My Commission Expires October 21, 2014

> SHAWNA M. BERNAZZANI Notary Public, State of New Hampshire My Commission Expires Aug. 22, 2017

		M 32	**
Date: <u>9/12/</u> /	4	David'S.	Lyttle
United States of Ame	41 37		
State of County of	Hillshozogh) ss.:		
On this 12 th personally came described in and who	day of <u>September</u> 	, to me known to	be the individual
of the same.		lessica C	Less-
		JESSICA TRO JESSICA TRO Notary Public-New He My Commission E: October 21, 20	ampshire xpires

ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made this by Roman V. Drachev; Santhanaraghavan Parthasarathy; Andriy M. Andrukhiv; and David S. Lyttle (hereinafter referred to as Assignors), residing at 38 Hawthorne Drive #E303, Bedford, New Hampshire 03110; 32 Henry J. Drive, Tewksbury, Massachusetts 01876; 3 Baxter Road, Hollis, New Hampshire 03049; and P.O. Box 763, Amherst, New Hampshire 03031, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in APPARATUS FOR PRODUCING BULK SILICON CARBIDE, set forth in a Patent application for Letters Patent of the United States, filed September 5, 2014 as U.S. Application Serial No. 14/478,608; and

WHEREAS, GTAT Corporation, a corporation organized under and pursuant to the laws of Delaware having its principal place of business at 5 Wentworth Drive, Unit #1, Hudson, New Hampshire 03051 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

Ì

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignce, its successors, legal representatives and assigns that: Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise; that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; and, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

BEHMKE INNOVATION GROUP LLC

2

All practitioners at Customer Number 127660

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

Date: 11/30/2020

Signature:

Santhanaraghayan Parthasarathy