07/03/2018 504988823

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5035570

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
FELIKS FRENKEL	06/29/2018
NIKITA KOTLOV	06/29/2018
ALEXANDER BAGAEV	06/29/2018
RAVSHAN ATAULLAKHANOV	06/29/2018

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PROPERTY NUMBERS Total: 3

Property Type	Number		
Application Number:	16006085		
Application Number:	16006129		
PCT Number:	US1837018		

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	B1462.70003		
NAME OF SUBMITTER:	SCOTT R. WHITTEMORE		
SIGNATURE:	/SCOTT R. WHITTEMORE/		
DATE SIGNED:	07/03/2018		

Total Attachments: 7 source=B1462.70003US00_US01_WO00#page1.tif source=B1462.70003US00_US01_WO00#page2.tif source=B1462.70003US00_US01_WO00#page3.tif source=B1462.70003US00_US01_WO00#page4.tif source=B1462.70003US00_US01_WO00#page5.tif source=B1462.70003US00_US01_WO00#page6.tif source=B1462.70003US00_US01_WO00#page7.tif

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign and transfer to BostonGene, LLC, a Delaware Limited Liability Company having a place of business at 191 Weston Road, Lincoln, Massachusetts 01773, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my successors, assigns and legal representatives and all foreign countries, in and to any and all entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in

the patent application for United States Letters Patent filed in the United States Patent and Trademark Office on June 12, 2018 under No. 16/006,085, bearing Attorney Docket No. B1462.70003US00, and entitled SYSTEMS AND METHODS FOR IDENTIFYING RESPONDERS AND NON-RESPONDERS TO IMMUNE CHECKPOINT BLOCKADE THERAPY;

the patent application for United States Letters Patent filed in the United States Patent and Trademark Office on June 12, 2018 under No. 16/006,129, bearing Attorney Docket No. B1462.70003US01, and entitled SYSTEMS AND METHODS FOR IDENTIFYING RESPONDERS AND NON-RESPONDERS TO IMMUNE CHECKPOINT BLOCKADE THERAPY.

the International Application filed on June 12, 2018 under International Application No. PCT/US2018/037018, bearing Attorney Docket No. B1462.70003, and entitled SYSTEMS AND METHODS FOR IDENTIFYING RESPONDERS AND NON-RESPONDERS TO IMMUNE CHECKPOINT BLOCKADE THERAPY;

and in and to the application and all corresponding provisional, national, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions and designs; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions and designs, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and foreign country and all rights to sue in its own name and recover damages for past infringement of Korea; as well as the right to sue in its own name and recover damages for past infringement of any United States Letters Patent and foreign patent, including a reasonable royalty relating to any United States Letters Patent and foreign patent, including a reasonable royalty relating to patent application, on the inventions and designs; and to the extent that any above mentioned right, title and/or interest has previously been assigned to the Assignee via a different instrument, hereby confirm said assignment;

2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions and designs in its own name; and when requested, without charge to but at the expense of the Assignee, agree to carry out in good faith the intent and purpose of this Assignment, by executing all non-provisional, divisional, the intent and purpose of this Assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions and designs, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts assignments, powers of attorney and designs and the history thereof, and generally by known to me relating to the inventions and designs and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in

U.S. Patent App. No.: 16/006,085	U.S. Patent App. No.: 16/006,129	International App. PCT/US2018/037018
	Filing Date: June 12, 2018	Filing Date: June 12, 2018

securing and maintaining proper protection for the inventions and designs and for vesting title to the inventions and designs and all applications for patents and all patents on the inventions and designs, in the Assignee;

- 3. Request the Director of the United States Patent and Trademark Office and foreign patent authorities to issue the Letters Patent or other intellectual property rights, including foreign patents, to the Assignee;
- 4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing application identification information or correct any errors in the application identification information provided above, whether discovered prior to or after recordation;
- 5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
- 6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Attorney Docket Nos. B1462.70003US00; B1462.70003US01; B1462.70003

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U.S. Patent App. No.: 16/006,085 Filing Date: June 12, 2018	U.S. Patent App. No.: 16/006,129 Filing Date: June 12, 2018	International App. PCT/US2018/037018 Filing Date: June 12, 2018
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Witness: 6/ag/20 Date	Signature Name:	Thegerel- alina hodneva viscow, vapilova, 48
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Attorney Docket Nos. B1462.70003US00; B1462.70003US01; B1462.70003

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Patent App. No.: 16/006,085 g Date: June 12, 2018	U.S. Patent App. No.: 16 Filing Date: June 12, 201		International App. PCT/US2018/037018 Filing Date: June 12, 2018	
<u>6/29/2018</u> Date	Inventor: Address: Citizenship:	2nd Botai Moscow RUSSIAN	nicheskiy proezd 4-29 N FEDERATION	-
Witness: 6/29/2018 Date	Signature Name: Address:		Thegeel- lina bradneva seow, Vavilova,	42
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Date	Signature)		
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Attorney Docket Nos. B1462.7	70003US00; B1462.70003	US01; B14	62.70003	

J.S. Patent App. No.: 16/006,085 Filing Date: June 12, 2018	U.S. Patent App. No.: 16/ Filing Date: June 12, 201	
06/29 / 2013 Date	Address:	Alexander Bagaev 10 Letchika Gricevca St. Moscow 142750 RUSSIAN FEDERATION Russian Federation
Witness: <u>6/29/2018</u> Date	Signature Name: Address:	Thoquel- balina brodneva Hoscow, Varilora, 48
Witness:		
Date	Signature Name: Address:	
Attorney Docket Nos. B1462.	70003US00; B1462.70003U	JS01; B1462.70003

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Patent App. No.: 16/006,085 g Date: June 12, 2018	U.S. Patent App. No.: 16/006,129 Filing Date: June 12, 2018		International App. PCT/US2018/037018 Filing Date: June 12, 2018	
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			, Missouri 63122	
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U.S. Patent App. No.: 16/006,085 Filing Date: June 12, 2018	U.S. Patent Ap Filing Date: Ju			Filing Date: June 12, 2018
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	Ci	itizenship:	Russian F	ederation
Witness: 6/29/2018 Date		Signature Name: Address:	bu Mos	Thogees- polnera balina cow, Vacilova, 48
Witness:				
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Date	ж.	Signature		
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Attorney Docket Nos. B1462.	70003US00; B1	462.70003L	JS01; B146	62.70003

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