

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7347834

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST	
CONVEYING PARTY DATA		
Name		Execution Date
IMPERIAL FINANCIAL SERVICES B.V.		05/23/2022
RECEIVING PARTY DATA		
Name:	SEVEN BRIDGES GENOMICS INC.	
Street Address:	1 MAIN STREET	
Internal Address:	SUITE 500	
City:	CAMBRIDGE	
State/Country:	MASSACHUSETTS	
Postal Code:	02142	
PROPERTY NUMBERS Total: 69		
Property Type	Number	
Application Number:	14016833	
Application Number:	14041850	
Application Number:	14157759	
Application Number:	14157979	
Application Number:	14177958	
Application Number:	14517406	
Application Number:	14517419	
Application Number:	14517451	
Application Number:	14517513	
Application Number:	14592444	
Application Number:	14744536	
Application Number:	14798686	
Application Number:	14811057	
Application Number:	14847608	
Application Number:	14877378	
Application Number:	14885192	
Application Number:	14994385	
Application Number:	15003374	
Application Number:	15006391	

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Property Type	Number
Application Number:	15007874
Application Number:	15014483
Application Number:	15014500
Application Number:	15052354
Application Number:	15061235
Application Number:	15196085
Application Number:	15196345
Application Number:	15254258
Application Number:	15353105
Application Number:	15381492
Application Number:	15383102
Application Number:	15405474
Application Number:	15452963
Application Number:	15454811
Application Number:	15497524
Application Number:	15597464
Application Number:	15669141
Application Number:	15699305
Application Number:	15809153
Application Number:	15809229
Application Number:	15887216
Application Number:	15899713
Application Number:	15906404
Application Number:	15907835
Application Number:	15907847
Application Number:	15991157
Application Number:	16106996
Application Number:	16134619
Application Number:	16176833
Application Number:	16213351
Application Number:	16276070
Application Number:	16436040
Application Number:	16443402
Application Number:	16525822
Application Number:	16663243
Application Number:	16721143
Application Number:	16798759
Application Number:	16841238

Property Type	Number
Application Number:	16857812
Application Number:	16861569
Application Number:	16937827
Application Number:	16988236
Application Number:	17023289
Application Number:	17087300
Application Number:	17087385
Application Number:	17095206
Application Number:	17191187
Application Number:	17359338
Application Number:	29684521
Application Number:	63162400

CORRESPONDENCE DATA

Fax Number:

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.

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ATTORNEY DOCKET NUMBER: 056375-001

NAME OF SUBMITTER: ROBERT SWEENEY

SIGNATURE: /Robert Sweeney/

DATE SIGNED: 05/24/2022

Total Attachments: 8

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TERMINATION AND RELEASE OF PATENT SECURITY AGREEMENT

This TERMINATION AND RELEASE OF PATENT SECURITY AGREEMENT is entered into as of May 23, 2022 (this “**Release**”), from Imperial Financial Services B.V., a private limited liability company organized and existing under the law of the Netherlands (“**Lender**”), to Seven Bridges Genomics Inc., a Delaware corporation (the “**Borrower**”).

WHEREAS, pursuant to that certain Loan Agreement, dated March 25, 2022 between Lender and Borrower (the “**Loan Agreement**”), Lender and Borrower have executed a Patent Security Agreement dated March 30, 2022, recorded in the United States Patent and Trademark Office at Patent Reel 059554 Frame 0165 (the “**Patent Security Agreement**”);

WHEREAS, pursuant to the Patent Security Agreement, a security interest (the “**Security Interest**”) was granted by Borrower to Lender in certain Collateral as defined in the Patent Security Agreement, including, without limitation, the patents and patent applications listed on Schedule A attached hereto (the “**Collateral**”);

WHEREAS, Lender now desires to terminate and release the entirety of its Security Interest in the Collateral.

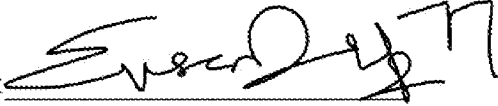
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Lender states as follows:

Release of Security Interest. Lender hereby terminates, releases and discharges the Security Interest in and any and all claims against the Collateral, and any right, title or interest of Lender in such Collateral shall hereby cease and become void.

[Signature Page to Follow]

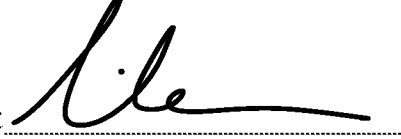
IN WITNESS WHEREOF, the undersigned have executed this Release by its duly authorized officers as of the date first written above.

Imperial Financial Services B.V.
("Lender")

By: 

Name: Evren Öztürk

Title: Managing Director A

By: 

Name: Nihan Pinar

Title: Managing Director B

SCHEDULE A
TO TERMINATION AND RELEASE OF PATENT SECURITY AGREEMENT

Title	Docket No.	Application Num	Publication Num	Patent Num	Filing Date	Issue Date
SYSTEMS AND METHODS FOR ALIGNING SEQUENCES TO PERSONALIZED REFERENCES	SI961.70001US01	15/809,229	US-2018-0157792-A1		11/10/2017	
SYSTEMS AND METHODS FOR USE OF KNOWN ALLELES IN READ MAPPING	SBG-010/01US 31079/34	14/592,444	20150199475		1/8/2015	12/15/2020
SYSTEMS AND METHODS FOR USE OF KNOWN ALLELES IN READ MAPPING		17/095,206			11/20/2020	
SYSTEMS AND METHODS FOR GENOMIC PATTERN ANALYSIS	SBG-015/01US 31079/81	15/061,235	20160259880	10192026	3/4/2016	1/29/2019
BIOLOGICAL GRAPH OR SEQUENCE SERIALIZATION	SBG-021/00US 31079/45	14/885,192	US-2017-0109383-A1		10/16/2015	
SYSTEMS AND METHODS FOR SEQUENCE ENCODING, STORAGE, AND COMPRESSION	SBG-027.23-ORG	15/597,464	US-2018-0089369-A1	10790044	5/17/2017	09/29/2020
SYSTEMS AND METHODS FOR SEQUENCE ENCODING, STORAGE, AND COMPRESSION		16/988,236			8/20/2020	
DATA SECURITY IN BIOINFORMATIC SEQUENCE ANALYSIS	SBG-061	15/907,847	US-2018-0253553-A1		2/28/2018	
WATERMARKING FOR DATA SECURITY IN BIOINFORMATIC SEQUENCE ANALYSIS	SBG-067	15/907,835	US-2018-0253536-A1	10726110	2/28/2018	07/28/2020
COMPUTER METHOD AND SYSTEM OF IDENTIFYING GENOMIC MUTATIONS USING GRAPH-BASED LOCAL ASSEMBLY	5326.1000-001	15/669,141	US-2018-0039730-A1		8/4/2017	
SYSTEMS AND METHODS FOR ALIGNING SEQUENCES TO GRAPH REFERENCE CONSTRUCTS	SI961.70002US00	15/452,963	US-2018-0260520-A1		3/8/2017	
METHODS AND SYSTEMS FOR ALIGNING SEQUENCES	SBG-001/01US 31079/3	14/016,833	20150057946	9898575	9/3/2013	2/20/2018
METHODS AND SYSTEMS FOR ALIGNING SEQUENCES	SBG-001/02US	15/899,713	US-2018-0357367-A1		2/20/2018	
METHODS AND SYSTEMS FOR DETECTING SEQUENCE VARIANTS	SBG-002/01US (31079/71)	14/041,850	20150056613	9116866	9/30/2013	8/25/2015
METHODS AND SYSTEMS FOR DETECTING SEQUENCE VARIANTS	SBG-002/02US 31079/44	14/811,057	20150347678	9390226	7/28/2015	7/12/2016

METHODS AND SYSTEMS FOR DETECTING SEQUENCE VARIANTS	SBG-002/03US	15/196,345	20160306921	9904763	6/29/2016	2/27/2018
METHODS AND SYSTEMS FOR DETECTING SEQUENCE VARIANTS	SBG-002/04US	15/906,404	US-2018-0336314-A1	10325675	2/27/2018	6/18/2019
METHODS AND SYSTEMS FOR DETECTING SEQUENCE VARIANTS	S1961.70006US05	16/443,402			6/17/2019	
METHODS AND SYSTEMS FOR QUANTIFYING SEQUENCE ALIGNMENT	SBG-006/01US	14/517,419	20150199473	10,832,797	10/17/2014	11/10/2020
METHODS AND SYSTEMS FOR QUANTIFYING SEQUENCE ALIGNMENT		17/087,385			11/2/2020	
METHODS AND SYSTEMS FOR ALIGNING SEQUENCES IN THE PRESENCE OF REPEATING ELEMENTS	SBG-007/01US	14/517,513	20150199474	11,049,587	10/17/2014	
METHODS AND SYSTEMS FOR ALIGNING SEQUENCES IN THE PRESENCE OF REPEATING ELEMENTS		17/359,338			6/25/2021	
SYSTEMS AND METHODS FOR ANALYZING SEQUENCE DATA	SBG-014/00US 31079/19	14/177,958	20150227685	9817944	2/11/2014	11/14/2017
SYSTEMS AND METHODS FOR ADAPTIVE LOCAL ALIGNMENT FOR GRAPH GENOMES	S1961.70024US01	16/663,243				
Systems and Methods for Aligning Sequences to Graph References	SBG-058/00US	15/353,105	US-2018-0137387-A1	10319465	11/16/2016	6/11/2019
Systems and Methods for Aligning Sequences to Graph References	S1961.70027US01	16/436,040		11,062,793	6/10/2019	
METHODS AND SYSTEMS FOR GENOTYPING GENETIC SAMPLES	SBG-005/01US	14/517,406	20150199472	10078724	10/17/2014	9/18/2018
METHODS AND SYSTEMS FOR GENOTYPING GENETIC SAMPLES	SBG-005/02US	16/134,619			9/18/2018	
SYSTEMS AND METHODS FOR ANALYZING SEQUENCE DATA	SBG-014/01US	15/809,153	US-2018-0232483-A1		11/10/2017	12/29/2020
SYSTEMS AND METHODS FOR ANALYZING SEQUENCE DATA	SBG-014/01US	17/087,300			11/2/2020	
SYSTEMS AND METHODS FOR GENOTYPING WITH GRAPH REFERENCE	SBG-026/00US 31079/54	15/052,354	US-2017-0242958-A1	10262102	2/24/2016	4/16/2019

SYSTEMS AND METHODS FOR PROVIDING ASSISTED LOCAL ALIGNMENT	SBG-032/01US	15/887,216	US-2018-0247016-A1			2/2/2018	
SYSTEM AND METHOD FOR SEQUENCE IDENTIFICATION IN REASSEMBLY VARIANT CALLING	SBG-083/01US	16/276,070				2/14/2019	
METHODS AND SYSTEMS FOR IDENTIFYING DISEASE-INDUCED MUTATIONS	SBG-008/01US	14/517,451	20150197815	10053736		10/17/2014	8/21/2018
METHODS AND SYSTEMS FOR DETECTING SEQUENCE VARIANTS	SBG-008/02US	16/106,996				8/21/2018	
SYSTEMS AND METHODS FOR TRANSCRIPTOME ANALYSIS	SBG-009/01US-1	14/157,759	20150112658	9063914		1/17/2014	6/23/2015
SYSTEMS AND METHODS FOR USING PAIRED-END DATA IN DIRECTED ACYCLIC STRUCTURE	SBG-009/01US-2	14/157,979	20150112602	9092402		1/17/2014	7/28/2015
SYSTEMS AND METHODS FOR TRANSCRIPTOME ANALYSIS	SBG-009/02US-1	14/744,536	20150302145	10204207		6/19/2015	2/12/2019
SYSTEMS AND METHODS FOR USING PAIRED-END DATA IN DIRECTED ACYCLIC STRUCTURE	SBG-009/02US-2	14/798,686	20150310167	10055539		7/14/2015	8/21/2018
SYSTEMS AND METHODS FOR EPIGENETIC ANALYSIS	SBG-018/01US	15/007,874	20170058320	10,793,895		1/27/2016	10/6/2020
SYSTEMS AND METHODS FOR EPIGENETIC ANALYSIS		17/023,289				9/16/2020	
SYSTEMS AND METHODS FOR MITOCHONDRIAL ANALYSIS	SBG-019/01US	15/014,483	20170058341	10584380		2/3/2016	3/10/2020
SYSTEMS AND METHODS FOR MITOCHONDRIAL ANALYSIS		16/798,759				2/24/2020	
SYSTEMS AND METHODS FOR ANALYZING VIRAL NUCLEIC ACIDS	SBG-020/01US	15/014,500	20170058365	10724110		2/3/2016	7/28/2020
SYSTEMS AND METHODS FOR ANALYZING VIRAL NUCLEIC ACIDS	SBG-020/01US	16/937,827				7/24/2020	
SYSTEMS AND METHODS FOR ANALYZING CIRCULATING TUMOR DNA	SBG-022/00US	14/994,385	US-2017-0198351-A1	10364468		1/13/2016	7/30/2019
SYSTEMS AND METHODS FOR ANALYZING CIRCULATING TUMOR DNA	SBG-029/00US	16/525,822				7/30/2019	
SYSTEMS AND METHODS FOR DETECTING RECOMBINATION	SBG-029/01US	15/254,258	US-2018-0060480-A1			9/1/2016	
Systems and Methods for Generating Graph References		63/162,400				3/17/2021	

VARIANT-CALLING ON DATA FROM AMPLICON-BASED SEQUENCING METHODS	SBG-013/01US 31079/46	14/847,608	20160070856		9/8/2015	
SYSTEMS AND METHODS FOR HAPLOTYPE	SBG-016/01US 31079/57	15/003,374	20160342732	10275567	1/21/2016	4/30/2019
SYSTEMS AND METHODS FOR ENCODING GENETIC VARIATION FOR A POPULATION	SBG-028/00US 31079/72	15/006,391	US-2017-0211205-A1	10460829	1/26/2016	10/29/2019
METHOD AND APPARATUS FOR IDENTIFYING TANDEM REPEATS IN A NUCLEOTIDE SEQUENCE	SBG-043/00US	15/196,085	US-2018-0004891-A1		6/29/2016	6/19/2019
DETECTION OF INSUFFICIENT HOMOLOGY REGIONS IN A REFERENCE SEQUENCE	SBG-060/01US	16/213,351			12/7/2018	
GENERATION AND USE OF SIMULATED GENOMIC DATA	SBG-063	15/383,102	US-2018-0173848-A1	10629292	12/19/2016	4/21/2020
GENERATION AND USE OF SIMULATED GENOMIC DATA	SBG-063/C1	16/841,238			12/19/2019	
GRAPHICAL USER INTERFACE WITH PILL SHAPE FOR A DISPLAY SCREEN	5326.1001-001	29/684,521		D925,574	3/21/2019	
METHODS AND SYSTEMS FOR GENERATING, BY A VISUAL QUERY BUILDER, A QUERY OF A GENOMIC DATA STORE	SBG.1030US	15/405,474		10545955	1/13/2017	1/28/2020
METHODS AND SYSTEMS FOR STREAM-PROCESSING OF BIOMEDICAL DATA	SBG.1031US	15/497,524		10,972,574	4/26/2017	
METHODS AND SYSTEMS FOR STREAM-PROCESSING OF BIOMEDICAL DATA	SBG.1031USC1	17/191,187			3/3/2021	
SYSTEMS AND METHODS FOR SMART TOOLS IN SEQUENCE PIPELINES	SBG-012/01US 31079/49	14/877,378	20160103659	9558321	10/7/2015	1/31/2017
SYSTEMS AND METHODS FOR SMART TOOLS IN SEQUENCE PIPELINES	SBG-012/02US 31079/125	15/381,492	US-2017-0199764-A1	10083064	12/16/2016	9/25/2018
HASHING DATA-PROCESSING STEPS IN WORKFLOW ENVIRONMENTS	SBG-044	15/699,305	US-2018-0081717-A1		9/8/2017	
HASHING DATA-PROCESSING STEPS IN WORKFLOW ENVIRONMENTS	SBG-044C1/116567-5002	16/721,143			12/19/2019	
SYSTEMS AND METHODS FOR PROCESSING COMPUTATIONAL WORKFLOWS	SBG-056/01US	15/454,811	US-2018-0053328-A1	10672156	3/9/2017	6/2/2020

SYSTEMS AND METHODS FOR PROCESSING COMPUTATIONAL WORKFLOWS		16/857,812			4/24/2020	
SYSTEMS AND METHODS FOR SCHEDULING JOBS FROM COMPUTATIONAL WORKFLOWS	SBG-075/01US/116567-5008	15/991,157	US-2018-0349183-A1		5/29/2018	
SYSTEM AND METHOD FOR DYNAMIC CONTROL OF WORKFLOW EXECUTION	SBG-084/01US	16/176,833	US-2019-0129769 A1	19,678,613	10/31/2018	6/9/2020
SYSTEM AND METHOD FOR DYNAMIC CONTROL OF WORKFLOW EXECUTION	SBG-084C1/116567-5015	16/861,569			4/29/2020	

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RECORDED: 05/24/2022