

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4635045

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	NOTICE OF ATTORNEY'S LIEN	
<b>CONVEYING PARTY DATA</b>		
<b>Name</b>		<b>Execution Date</b>
SEVEN BRIDGES GENOMICS INC.		10/11/2017
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	BROWN RUDNICK	
<b>Street Address:</b>	ONE FINANCIAL CENTER	
<b>City:</b>	BOSTON	
<b>State/Country:</b>	MASSACHUSETTS	
<b>Postal Code:</b>	02111	
<b>PROPERTY NUMBERS Total: 34</b>		
<b>Property Type</b>	<b>Number</b>	
Application Number:	14016833	
Application Number:	14041850	
Application Number:	14811057	
Application Number:	15196345	
Application Number:	14474475	
Application Number:	14517406	
Application Number:	14517419	
Application Number:	14517513	
Application Number:	14517451	
Application Number:	14157759	
Application Number:	14157979	
Application Number:	14744536	
Application Number:	14798686	
Application Number:	14592444	
Application Number:	14877378	
Application Number:	15381492	
Application Number:	14847608	
Application Number:	14177958	
Application Number:	15061235	
Application Number:	15003374	

PATENT

Property Type	Number
Application Number:	15007865
Application Number:	15007874
Application Number:	15014483
Application Number:	15014500
Application Number:	14885192
Application Number:	14994385
Application Number:	14990323
Application Number:	14994758
Application Number:	15052354
Application Number:	15006391
Application Number:	15254258
Application Number:	62453806
Application Number:	15454811
Application Number:	15353105

#### **CORRESPONDENCE DATA**

**Fax Number:** (617)856-8201

*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:** 617-856-8200

**Email:** IP@brownrudnick.com

**Correspondent Name:** BROWN RUDNICK

**Address Line 1:** ONE FINANCIAL CENTER

**Address Line 4:** BOSTON, MASSACHUSETTS 02111

<b>ATTORNEY DOCKET NUMBER:</b>	31079/1
<b>NAME OF SUBMITTER:</b>	THOMAS C. MEYERS
<b>SIGNATURE:</b>	/Thomas C. Meyers/
<b>DATE SIGNED:</b>	10/11/2017

#### **Total Attachments: 4**

source=Notice of Attorney's Lien#page1.tif

source=Notice of Attorney's Lien#page2.tif

source=Notice of Attorney's Lien#page3.tif

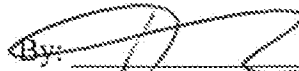
source=Notice of Attorney's Lien#page4.tif

**NOTICE OF ATTORNEY'S LIEN**

**BROWN RUDNICK LLP** hereby provides notice that it asserts, for attorneys' fees and expenses due it from **SEVEN BRIDGES GENOMICS INC.**, an attorney's lien pursuant to Mass. Gen. Laws ch. 221, § 50, in and to any and all intellectual property owned by or licensed to **SEVEN BRIDGES GENOMICS INC.**, including, but not limited to, those certain pending U.S. Patent Applications and issued U.S. Patents as scheduled on Exhibit A, attached hereto, and all other pending U.S. Patent Applications and/or issued U.S. Patents depending therefrom.

Date: October 11, 2017

Brown Rudnick LLP

By: 

Thomas C. Meyers, Partner

Brown Rudnick LLP

Boston, MA 02111

(617) 856-8200

(617) 856-8201 (fax)

## **EXHIBIT A**

<b>Patent Application Number</b>	<b>Patent Number</b>	<b>Title</b>
14/016833		METHODS AND SYSTEMS FOR ALIGNING SEQUENCES
14/041850	9116866	METHODS AND SYSTEMS FOR DETECTING SEQUENCE VARIANTS
14/811057	9390226	METHODS AND SYSTEMS FOR DETECTING SEQUENCE VARIANTS
15/196345		METHODS AND SYSTEMS FOR DETECTING SEQUENCE VARIANTS
14/474475		GENOMIC PIPELINE EDITOR WITH TOOL LOCALIZATION
14/517406		METHODS AND SYSTEMS FOR GENOTYPING GENETIC SAMPLES
14/517419		METHODS AND SYSTEMS FOR QUANTIFYING SEQUENCE ALIGNMENT
14/517513		METHODS AND SYSTEMS FOR ALIGNING SEQUENCES IN THE PRESENCE OF REPEATING ELEMENTS
14/517451		METHODS AND SYSTEMS FOR IDENTIFYING DISEASE-INDUCED MUTATIONS
14/157759	9063914	SYSTEMS AND METHODS FOR TRANSCRIPTOME ANALYSIS
14/157979	9092402	SYSTEMS AND METHODS FOR USING PAIRED-END DATA IN DIRECTED ACYCLIC STRUCTURE
14/744536		SYSTEMS AND METHODS FOR TRANSCRIPTOME ANALYSIS
14/798686		SYSTEMS AND METHODS FOR USING PAIRED-END DATA IN DIRECTED ACYCLIC STRUCTURE
14/592444		SYSTEMS AND METHODS FOR USE OF KNOWN ALLELES IN READ MAPPING
14/877378	9558321	SYSTEMS AND METHODS FOR SMART TOOLS IN SEQUENCE PIPELINES
15/381492		SYSTEMS AND METHODS FOR SMART TOOLS IN SEQUENCE PIPELINES
14/847608		VARIANT-CALLING ON DATA FROM APLICON-BASED SEQUENCING METHODS
14/177958		SYSTEMS AND METHODS FOR ANALYZING SEQUENCE DATA
15/061235		SYSTEMS AND METHODS FOR GENOMIC PATTERN ANALYSIS
15/003374		SYSTEMS AND METHODS FOR HAPLOTYPING
15/007865		SYSTEMS AND METHODS FOR IDENTIFYING MICROORGANISMS
15/007874		SYSTEMS AND METHODS FOR EPIGENETIC ANALYSIS
15/014483		SYSTEMS AND METHODS FOR MITOCHONDRIAL ANALYSIS
15/014500		SYSTEMS AND METHODS FOR ANALYZING VIRAL NUCLEIC ACIDS
14/885192		BIOLOGICAL GRAPH OR SEQUENCE SERIALIZATION
14/994385		SYSTEMS AND METHODS FOR ANALYZING CIRCULATING TUMOR DNA
14/990323		SYSTEMS AND METHODS FOR ADAPTIVE LOCAL ALIGNMENT FOR GRAPH GENOMES
14/994758		GENETIC ANALYSIS SYSTEMS AND METHODS
15/052354		SYSTEMS AND METHODS FOR GENOTYPING WITH GRAPH REFERENCE
15/006391		SYSTEMS AND METHODS FOR ENCODING GENETIC VARIATION FOR A POPULATION
15/254258		SYSTEMS AND METHODS FOR DETECTING RECOMBINATION

Patent Application Number	Patent Number	Title
62/453806		SYSTEMS AND METHODS FOR PROVIDING ASSISTED LOCAL ALIGNMENT
15/454811		SYSTEMS AND METHODS FOR PROCESSING COMPUTATIONAL WORKFLOWS
15/353105		SYSTEMS AND METHODS FOR ALIGNING SEQUENCES TO GRAPH REFERENCES

62884511 v1

Patent Application Number	Patent Number	Title
62/453806		SYSTEMS AND METHODS FOR PROVIDING ASSISTED LOCAL ALIGNMENT
15/454811		SYSTEMS AND METHODS FOR PROCESSING COMPUTATIONAL WORKFLOWS
15/353105		SYSTEMS AND METHODS FOR ALIGNING SEQUENCES TO GRAPH REFERENCES

62884511 v1