

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

Assignment ID: PATI19726

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST
CONVEYING PARTY DATA	
Name	Execution Date
MOLECULA CORP.	02/08/2024
RECEIVING PARTY DATA	
Company Name:	FIRST-CITIZENS BANK & TRUST COMPANY (successor by purchase to the Federal Deposit Insurance Corporation as receiver for Silicon Valley Bridge Bank, N.A. (as successor to Silicon Valley Bank))
Street Address:	75 N. FAIR OAKS AVENUE
Internal Address:	(CLAS PAS-04-02)
City:	PASADENA
State/Country:	CALIFORNIA
Postal Code:	91103
PROPERTY NUMBERS Total: 21	
Property Type	Number
Application Number:	17461154
Application Number:	16883827
Application Number:	14165200
Application Number:	14757800
Application Number:	15231477
Application Number:	15448383
Application Number:	15143021
Application Number:	15435122
Application Number:	15143139
Application Number:	15283918
Application Number:	15717665
Application Number:	16827323
Application Number:	15222683
Application Number:	16871938
Application Number:	16883853
Application Number:	17462517
Application Number:	18311324
Application Number:	18314376

Property Type	Number
Application Number:	17821396
Application Number:	16883842
Application Number:	17539128

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.

Phone: (800)494-5225
Email: ipteam@cogencyglobal.com
Correspondent Name: Jay daSilva
Address Line 1: 1025 Connecticut Avenue NW
Address Line 2: Suite 712
Address Line 4: Washington, DISTRICT OF COLUMBIA 20036

ATTORNEY DOCKET NUMBER:	2266394 PAT
NAME OF SUBMITTER:	Andrew Hackett
SIGNATURE:	Andrew Hackett
DATE SIGNED:	02/12/2024

Total Attachments: 8
source=1. Patent Intellectual Property Security Agreement (Molecula)#page1.tif
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INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement (this “**Agreement**”) is entered into as of February 8, 2024, by and between SILICON VALLEY BANK, a division of FIRST-CITIZENS BANK & TRUST COMPANY (successor by purchase to the Federal Deposit Insurance Corporation as Receiver for Silicon Valley Bridge Bank, N.A. (as successor to Silicon Valley Bank) (“**Bank**”) and MOLECULA CORP., a Delaware corporation (“**Grantor**”).

RECITALS

A. Bank has agreed to make certain advances of money and to extend certain financial accommodations to Grantor (the “**Loans**”) in the amounts and manner set forth in that certain Loan and Security Agreement dated as of December 28, 2022, as amended by that certain Consent and First Amendment to Loan and Security Agreement between Bank and Borrower dated as of July 21, 2023, and as further amended by that certain Second Amendment to Loan and Security Agreement dated as of the date hereof (as the same may from time to time be further amended, modified or supplemented from time to time, the “**Loan Agreement**”; capitalized terms used herein are used as defined in the Loan Agreement). Bank is willing to make financial accommodations to Grantor, but only upon the condition, among others, that Grantor shall grant to Bank a security interest in its Copyrights, Trademarks, Patents, and Mask Works (as each term is described below) to secure the obligations of Grantor to Bank.

B. Pursuant to the terms of the Loan Agreement, Grantor has granted to Bank a security interest in all of Grantor’s right, title and interest, whether presently existing or hereafter acquired, in, to and under all of the Collateral.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment when due of Grantor’s obligations to Bank, Grantor hereby represents, warrants, covenants and agrees as follows:

AGREEMENT

1. Grant of Security Interest. To secure Grantor’s obligations to Bank, Grantor grants and pledges to Bank a security interest in all of Grantor’s right, title and interest in, to and under its intellectual property (all of which shall collectively be called the “**Intellectual Property Collateral**”), including, without limitation, the following:

(a) Any and all copyright rights, copyright applications, copyright registrations and like protections in each work of authorship and derivative work thereof, whether published or unpublished and whether or not the same also constitutes a trade secret, now or hereafter existing, created, acquired or held, including without limitation those set forth on Exhibit A attached hereto (collectively, the “**Copyrights**”);

(b) Any and all trade secrets, and any and all intellectual property rights in computer software and computer software products now or hereafter existing, created, acquired or held;

(c) Any and all design rights that may be available to Grantor now or hereafter existing, created, acquired or held;

(d) All patents, patent applications and like protections including, without limitation, improvements, divisions, continuations, renewals, reissues, extensions and continuations-in-part of the same, including without limitation the patents and patent applications set forth on Exhibit B attached hereto (collectively, the “**Patents**”);

(e) Any trademark and servicemark rights, whether registered or not, applications to register and registrations of the same and like protections, and the entire goodwill of the business of Grantor connected with and symbolized by such trademarks, including without limitation those set forth on Exhibit C attached hereto (collectively, the “**Trademarks**”);

(f) All mask works or similar rights available for the protection of semiconductor chips, now owned or hereafter acquired, including, without limitation those set forth on Exhibit D attached hereto (collectively, the “**Mask Works**”);

(g) Any and all claims for damages by way of past, present and future infringements of any of the rights included above, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights identified above;

(h) All licenses or other rights to use any of the Copyrights, Patents, Trademarks, or Mask Works and all license fees and royalties arising from such use, in each case, to the extent the grant of security interest is permitted by such license or rights;

(i) All amendments, extensions, renewals and extensions of any of the Copyrights, Trademarks, Patents, or Mask Works; and

(j) All proceeds and products of the foregoing, including without limitation all payments under insurance or any indemnity or warranty payable in respect of any of the foregoing.

Notwithstanding the foregoing, Intellectual Property Collateral does not include any intent-to-use Trademarks or applications therefor, unless and until acceptable evidence of use of the Trademark has been filed with and accepted by the United States Patent and Trademark Office pursuant to Section 1(c) or Section 1(d) of the Lanham Act (15 U.S.C. §§ 1051, et seq.).

2. Recordation. Grantor authorizes the Commissioner for Patents, the Commissioner for Trademarks and the Register of Copyrights and any other government officials to record and register this Agreement upon request by Bank.

3. Authorization. Grantor hereby authorizes Bank to (a) modify this Agreement unilaterally by amending the exhibits to this Agreement to include any Intellectual Property Collateral which Grantor obtains subsequent to the date of this Agreement, and (b) file a duplicate original of this Agreement containing amended exhibits reflecting such new Intellectual Property Collateral.

4. Loan Documents. This Agreement has been entered into pursuant to and in conjunction with the Loan Agreement, which is hereby incorporated by reference. The provisions of the Loan Agreement shall supersede and control over any conflicting or inconsistent provision herein. The rights and remedies of Bank with respect to the Intellectual Property Collateral are as provided by the Loan Agreement and related documents, and nothing in this Agreement shall be deemed to limit such rights and remedies.

5. Execution in Counterparts. This Agreement may be executed in counterparts (and by different parties hereto in different counterparts), each of which shall constitute an original, but all of which when taken together shall constitute a single contract. Delivery of an executed counterpart of a signature page to this Agreement by facsimile or in electronic (i.e., "pdf" or "tif" format) shall be effective as delivery of a manually executed counterpart of this Agreement.

6. Successors and Assigns. This Agreement will be binding on and shall inure to the benefit of the parties hereto and their respective successors and assigns.

7. Governing Law. This Agreement and any claim, controversy, dispute or cause of action (whether in contract or tort or otherwise) based upon, arising out of or relating to this Agreement and the transactions contemplated hereby and thereby shall be governed by, and construed in accordance with, the laws of the United States and the State of California, without giving effect to any choice or conflict of law provision or rule (whether of the State of California or any other jurisdiction).

[Signature page follows.]

IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

GRANTOR:

MOLECULA CORP.

DocuSigned by:
By: Higinio Maycotte
CE1AD4D81F04468...

Name: Higinio Maycotte

Title: CEO

BANK:

FIRST-CITIZENS BANK & TRUST
COMPANY (successor by purchase to the
Federal Deposit Insurance Corporation as
receiver for Silicon Valley Bridge Bank, N.A. (as
successor to Silicon Valley Bank))

DocuSigned by:
By: Doug Grutzmacher
B66B273EC3494DA...

Name: Doug Grutzmacher

Title: Vice President

EXHIBIT A

Copyrights

None

ny-2671809

PATENT
REEL: 066440 FRAME: 0193

EXHIBIT B

Patents

Status	Case Type	Application No.	Patent No.	Issue Date	Title	Expiration Date
Granted	CON	17/461154	11,675,797	13-Jun-2023	BITMAP INDEX INCLUDING INTERNAL METADATA STORAGE	
Granted	ORD	16/883827	11,687,513	27-Jun-2023	VIRTUAL DATA SOURCE MANAGER OF DATA VIRTUALIZATION-BASED ARCHITECTURE	
Granted	ORD	14/165200	9280780	08-Mar-2016	SYSTEMS AND METHODS OF GENERATING AND USING A BITMAP INDEX	27-Jan-2034
Granted	CON	14/757800	9436718	06-Sep-2016	SYSTEMS AND METHODS OF GENERATING AND USING A BITMAP INDEX	27-Jan-2034
Granted	CON	15/231477	9626687	18-Apr-2017	SYSTEMS AND METHODS OF GENERATING AND USING A BITMAP INDEX	27-Jan-2034
Granted	CON	15/448383	10318510	11-Jun-2019	SYSTEMS AND METHODS OF GENERATING AND USING A BITMAP INDEX	27-Jan-2034
Granted	ORD	15/143021	9607104	28-Mar-2017	SYSTEMS AND METHODS OF USING A BITMAP INDEX TO DETERMINE BICLIQUES	29-Apr-2036
Granted	CON	15/435122	10467294	05-Nov-2019	SYSTEMS AND METHODS OF USING A BITMAP INDEX TO DETERMINE BICLIQUES	29-Apr-2036
Granted	ORD	15/143139	9489410	08-Nov-2016	BITMAP INDEX INCLUDING INTERNAL METADATA STORAGE	29-Apr-2036
Granted	CON	15/283918	9805100	31-Oct-2017	BITMAP INDEX INCLUDING INTERNAL METADATA STORAGE	29-Apr-2036
Granted	CON	15/717665	10599661	24-Mar-2020	BITMAP INDEX INCLUDING INTERNAL METADATA STORAGE	13-Jan-2037
Granted	CON	16/827323	11106688	31-Aug-2021	BITMAP INDEX INCLUDING INTERNAL METADATA STORAGE	29-Apr-2036
Granted	ORD	15/222683	10652248	12-May-2020	SYSTEMS AND METHODS OF MANAGING DATA RIGHTS AND SELECTIVE DATA SHARING	28-Jul-2036
Granted	CON	16/871938	11425136	23-Aug-2022	SYSTEMS AND METHODS OF MANAGING DATA RIGHTS AND SELECTIVE DATA SHARING	28-Jul-2036
Granted	ORD	16/883853	11263026	01-Mar-2022	SOFTWARE PLUGINS OF DATA VIRTUALIZATION-BASED ARCHITECTURE	20-Aug-2040
Granted	ORD	17/462517	11886411	30-Jan-2024	DATA STORAGE USING ROARING BINARY-TREE FORMAT	
Pending	CON	18/311324			BITMAP INDEX INCLUDING INTERNAL METADATA STORAGE	
Pending	CON	18/314376			VIRTUAL DATA SOURCE MANAGER OF DATA VIRTUALIZATION-BASED ARCHITECTURE	
Published	CON	17/821396			SYSTEMS AND METHODS OF MANAGING DATA RIGHTS AND SELECTIVE DATA SHARING	
Published	ORD	16/883842			VIRTUAL DATA SOURCES OF DATA VIRTUALIZATION-BASED ARCHITECTURE	
Published	ORD	17/539128			JOIN QUERIES IN DATA VIRTUALIZATION-BASED ARCHITECTURE	

EXHIBIT C

Trademarks

Status	Serial #	Registration #	Title
Live	87441092	5394656	PILOSA
Pending	88650311	N/A	MOLECULA
Published	88809004	N/A	M LOGO (MARK)
Published	88933139	N/A	DATA AT THE SPEED OF THOUGHT
Live	90/849896	N/A	FEATUREBASE
Live	7244595	7244595	FEATUREBASE MARK

EXHIBIT D

Mask Works

None

ny-2671809

RECORDED: 02/12/2024

PATENT
REEL: 066440 FRAME: 0196