

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM475482

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	SECURITY INTEREST		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
SHAPE SECURITY, INC.		05/24/2018	Corporation: DELAWARE
RECEIVING PARTY DATA			
Name:	SILICON VALLEY BANK		
Street Address:	3003 TASMAN DRIVE		
City:	SANTA CLARA		
State/Country:	CALIFORNIA		
Postal Code:	95054		
Entity Type:	Corporation: CALIFORNIA		
PROPERTY NUMBERS Total: 4			
Property Type	Number	Word Mark	
Registration Number:	4937549	SHAPE SECURITY	
Registration Number:	4810042	SHAPE SECURITY	
Registration Number:	4786157	SHAPESHIFTER	
Registration Number:	4786110	BOTWALL	
CORRESPONDENCE DATA			
Fax Number:	4048853900		
<i>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.</i>			
Phone:	4048853868		
Email:	rusty.close@troutmansanders.com		
Correspondent Name:	CHRISTOPHER CLOSE		
Address Line 1:	TROUTMAN SANDERS LLP		
Address Line 2:	600 PEACHTREE STREET NE, SUITE 5200		
Address Line 4:	ATLANTA, GEORGIA 30308-2216		
ATTORNEY DOCKET NUMBER:	220763.002577		
NAME OF SUBMITTER:	Christopher C Close, Jr.		
SIGNATURE:	/Christopher C. Close Jr./		
DATE SIGNED:	05/25/2018		
Total Attachments: 20			

CH \$115.00 4937549

source=SVB_Shape Security (IP Security Agreement - Senior)#page1.tif
source=SVB_Shape Security (IP Security Agreement - Senior)#page2.tif
source=SVB_Shape Security (IP Security Agreement - Senior)#page3.tif
source=SVB_Shape Security (IP Security Agreement - Senior)#page4.tif
source=SVB_Shape Security (IP Security Agreement - Senior)#page5.tif
source=SVB_Shape Security (IP Security Agreement - Senior)#page6.tif
source=SVB_Shape Security (IP Security Agreement - Senior)#page7.tif
source=SVB_Shape Security (IP Security Agreement - Senior)#page8.tif
source=SVB_Shape Security (IP Security Agreement - Senior)#page9.tif
source=SVB_Shape Security (IP Security Agreement - Senior)#page10.tif
source=SVB_Shape Security (IP Security Agreement - Senior)#page11.tif
source=SVB_Shape Security (IP Security Agreement - Senior)#page12.tif
source=SVB_Shape Security (IP Security Agreement - Senior)#page13.tif
source=SVB_Shape Security (IP Security Agreement - Senior)#page14.tif
source=SVB_Shape Security (IP Security Agreement - Senior)#page15.tif
source=SVB_Shape Security (IP Security Agreement - Senior)#page16.tif
source=SVB_Shape Security (IP Security Agreement - Senior)#page17.tif
source=SVB_Shape Security (IP Security Agreement - Senior)#page18.tif
source=SVB_Shape Security (IP Security Agreement - Senior)#page19.tif
source=SVB_Shape Security (IP Security Agreement - Senior)#page20.tif

INTELLECTUAL PROPERTY SECURITY AGREEMENT

THIS INTELLECTUAL PROPERTY SECURITY AGREEMENT (“Agreement”) is entered into as of May 24, 2018 by and between **SILICON VALLEY BANK**, a California corporation (“**Bank**”) and **SHAPE SECURITY, INC.**, a Delaware corporation (“**Grantor**”).

RECITALS

A. Bank has agreed to make certain advances of money and to extend certain financial accommodation to Grantor (the “**Loans**”) in the amounts and manner set forth in that certain Loan and Security Agreement by and between Bank and Grantor dated May 18, 2017 (as the same may be 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 the Loans to Grantor, but only upon the condition, among others, that Grantor shall grant to Bank a security interest in certain Copyrights, Trademarks, Patents, and Mask Works (as each term is described below) to secure the obligations of Grantor under the Loan Agreement.

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 its obligations under the Loan Agreement, Grantor hereby represents, warrants, covenants and agrees as follows:

AGREEMENT

1. Grant of Security Interest. To secure its obligations under the Loan Agreement, 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) The copyright applications and copyright registrations now or hereafter existing, created, acquired or held, including without limitation those set forth on Exhibit A attached hereto (collectively, the “**Copyrights**”);

(b) All issued patents and patent applications set forth on Exhibit B attached hereto and any patents and patent applications claiming the priority benefit of the patents and patent applications set forth on Exhibit B attached hereto (collectively, the “**Patents**”);

(c) Any pending or registered trademark and service mark, together with 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**”);

(d) 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;

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

(f) All proceeds and products of the foregoing.

Notwithstanding the foregoing, the Intellectual Property Collateral shall not include any intent-to-use trademark application prior to the filing and acceptance of a "Statement of Use" or "Amendment to Allege Use" with respect thereto, to the extent, if any, that, and solely during the period, if any, in which, the grant of a security interest therein, or the assignment thereof, would impair the validity or enforceability of such intent-to-use trademark application under applicable federal law.

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. Prior to the termination of the Loan Agreement and satisfaction of all Obligations (other than contingent obligations that have not yet arisen), 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.

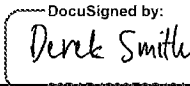
7. Governing Law. This Agreement and any claim, controversy, dispute or cause of action (whether in contract or tort or otherwise) based upon, arising out of or relating to this Agreement and the transactions contemplated hereby and thereby shall be governed by, and construed in accordance with, the 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:

SHAPE SECURITY, INC.

By: 
Name: Derek Smith
Title: CEO

BANK:

SILICON VALLEY BANK

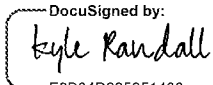
By: 
Name: Kyle Randall
Title: Vice President

EXHIBIT A

Copyrights

No.	Description	Registration Number	Application Number
1.	None Identified		

EXHIBIT B

Patents

No.	Description	Application Number	Registration Number
1.	Protecting Against the Introduction of Alien Content		8,869,281 (10/21/2014)
2.	Flexible Caching		8,893,294 (11/18/2014)
3.	Detection of Client-Side Malware Activity		8,997,226 (03/31/2015)
4.	Dynamic Field Re-Rendering		9,027,142 (05/05/2015)
5.	Reliable Selection of Security Countermeasures		9,075,990 (07/07/2015)
6.	Protecting against the Introduction of Alien Content		9,178,908 (11/03/2015)
7.	Blind Hash Compression		9,225,729 (12/29/2015)

No.	Description	Application Number	Registration Number
8.	Detecting the Introduction of Alien Content		9,225,737 (12/29/2015)
9.	Stateless Web Content Anti-Automation		9,338,143 (05/10/2016)
10.	Polymorphic Treatment of Data Entered at Clients		9,411,958 (08/09/2016)
11.	Content Modification in Served Code		9,477,836 (10/25/2016)
12.	Encoding of Sensitive Data		9,858,440 (01/02/2018)
13.	Safe Intelligent Content Modification	14/055,704 (10/16/2013)	
14.	Intercepting and Supervising Calls to Transformed Operations and Objects		8,954,583 (02/10/2015)
15.	Polymorphic Security Policy Action		9,003,511 (04/07/2015)

No.	Description	Application Number	Registration Number
16.	Client/Server Authentication Using Dynamic Credentials		9,083,739 (07/14/2015)
17.	Distributed Polymorphic Transformation of Served Content		9,112,900 (08/18/2015)
18.	System for Finding Code in a Data Flow		9,158,893 (10/13/2015)
19.	Selectively Protecting Valid Links to Pages of a Web Site		9,210,171 (12/08/2015)
20.	Using Individualized APIs to Block Automated Attacks on Native Apps and/or Purposely Exposed APIs		9,258,274 (02/09/2016)
21.	Client/Server Security by an Intermediary Rendering Modified In-Memory Objects		9,270,647 (02/23/2016)
22.	Reliable Selection of Security Countermeasures		9,275,222 (03/01/2016)
23.	Distributed Polymorphic Transformation of Served Content		9,325,734 (04/26/2016)

No.	Description	Application Number	Registration Number
24.	Flexible Caching		9,405,851 (08/02/2016)
25.	Automatic Library Detection		9,405,910 (08/02/2016)
26.	Mitigating Scripted Attacks Using Dynamic Polymorphism		9,438,625 (09/06/2016)
27.	Secure App Update Server and Secure Application Programming Interface ("API") Server		9,460,288 (10/04/2016)
28.	Dynamic Comparative Analysis Method and Apparatus for Detecting and Preventing Code Injection and Other Network Attacks		9,479,526 (10/25/2016)
29.	Pre-Analyzing Served Content		9,489,526 (11/08/2016)
30.	Call Stack Integrity Check on Client/Server Systems		9,529,994 (12/27/2016)
31.	Client/Server Security by an Intermediary Executing Instructions Received from a Server and Rendering Client Application Instructions		9,544,329 (01/10/2017)

No.	Description	Application Number	Registration Number
32.	Computer System for Improved Security of Server Computers Interacting with Client Computers		9,582,666 (02/28/2017)
33.	Dynamic Field Re-Rendering		9,584,534 (02/28/2017)
34.	Client/Server Polymorphism Using Polymorphic Hooks		9,602,543 (03/21/2017)
35.	Challenge-Dynamic Credential Pairs for Client/Server Request Validation		9,608,975 (03/28/2017)
36.	Detecting the Introduction of Alien Content		9,609,006 (03/28/2017)
37.	Detection of Client-Side Malware Activity		9,705,902 (07/11/2017)
38.	Application Programming Interface Wall		9,729,506 (08/08/2017)
39.	Automated Hardening of Web Page Content		9,800,602 (10/24/2017)

No.	Description	Application Number	Registration Number
40.	Protecting against the Introduction of Alien Content		9,794,276 (10/17/2017)
41.	Polymorphic Obfuscation of Executable Code		9,807,113 (10/31/2017)
42.	Polymorphic Treatment of Annotated Content		9,813,440 (11/07/2017)
43.	Reliable Selection of Security Countermeasures		9,813,444 (11/07/2017)
44.	Background Analysis of Web Content		9,825,984 (11/21/2017)
45.	Coordinated Application of Security Policies		9,825,995 (11/21/2017)
46.	Deterministic Reproduction of Client/Server Computer State or Output Sent to One or More Client Computers		9,917,850 (03/13/2018)
47.	Safe Intelligent Content Modification		9,923,919 (03/20/2018)

No.	Description	Application Number	Registration Number
48.	Techniques for Combating Man-in-the-Browser Attacks		9,954,893 (04/24/2018)
49.	System for Finding Code in a Data Flow	14/110,659 (10/08/2013)	
50.	Automatically Determining whether a Page of a Web Site is Broken Despite Elements on the Page that may Change	14/320,403 (06/30/2014)	
51.	Disrupting Automated Attacks on Client-Server Interactions Using Polymorphic Application Programming Interfaces	14/329,718 (07/11/2014)	
52.	Using Individualized APIs to Block Automated Attacks on Native Apps and/or Purposely Exposed APIs with Forced User Interaction	14/691,540 (04/20/2015)	
53.	Security Systems for Mitigating Attacks from a Headless Browser Executing on a Client Computer	14/718,736 (05/21/2015)	
54.	Multi-Layer Computer Security Countermeasures	14/922,436 (10/26/2015)	

No.	Description	Application Number	Registration Number
55.	Web Transaction Status Tracking	14/925,547 (10/28/2015)	
56.	Variable Runtime Transpilation	15/059,080 (03/02/2016)	
57.	Stateless Web Content Anti-Automation	15/148,139 (05/06/2016)	
58.	Asymmetrical Challenges for Web Security	15/202,755 (07/06/2016)	
59.	Split Serving of Computer Code	15/204,710 (07/07/2016)	
60.	Polymorphic Treatment of Data Entered at Clients	15/230,540 (08/08/2016)	
61.	Modifying Authentication for an Application Programming Interface	15/671,017 (08/07/2017)	
62.	Management of Dynamic Credentials		9,716,702 (07/25/2017)

No.	Description	Application Number	Registration Number
63.	Intercepting and Supervising, in a Runtime Environment, Calls to One or More Objects in a Web Page		9,712,561 (07/18/2017)
64.	Selectively Protecting Valid Links to Pages of a Web Site		9,621,583 (04/11/2017)
65.	Polymorphic Security Policy Action		9,479,529 (10/25/2016)
66.	System for Finding Code in a Data Flow		9,413,776 (08/09/2016)
67.	Intercepting and Supervising Calls to Transformed Operations and Objects		9,356,954 (05/31/2016)
68.	Client/Server Security by an Intermediary Rendering Modified In-Memory Objects		8,892,687 (11/18/2014)
69.	Challenge-Dynamic Credential Pairs for Client/Server Request Validation	15/563,509 (09/29/2017)	
70.	Client/Server Security by Executing Instructions and Rendering Client Application Instructions	15/808,504 (11/09/2017)	

No.	Description	Application Number	Registration Number
71.	Securing Web Page Content	15/791,291 (10/23/2017)	
72.	Using Instrumentation Code to Detect Bots or Malware	15/785,309 (10/16/2017)	
73.	Client-Side Security Key Generation	15/640,399 (06/30/2017)	
74.	Client-Side Security Key Generation	PCT US2017040148 (06/29/2017)	
75.	Management of Dynamic Credentials	15/658,129 (07/24/2017)	
76.	Intercepting and Supervising Calls to Transformed Operations and Objects	15/651,303 (07/17/2017)	
77.	Applying Bytecode Obfuscation Techniques to Programs Written in an Interpreted Language	PCT US2017021409 (03/08/2017)	
78.	Variable Runtime Transpilation	PCT US2017018747 (02/21/2017)	

No.	Description	Application Number	Registration Number
79.	Deterministic Reproduction of Client/Server Computer State or Output Sent to One or More Client Computers	PCT US2017020660 (03/03/2017)	
80.	Reverse Proxy Computer: Deploying Countermeasures in Response to Detecting an Autonomous Browser Executing on a Client Computer	PCT US2017017564 (02/10/2017)	
81.	Multi-Layer Computer Security Countermeasures	PCT US2016053392 (09/23/2016)	
82.	Web Transaction Status Tracking	PCT US2016053472 (09/23/2016)	
83.	Polymorphic Obfuscation of Executable Code	PCT US2016049357 (08/30/2016)	
84.	Polymorphic Obfuscation of Executable Code	PCT US2016049357 (08/30/2016)	
85.	Asymmetrical Challenges for Web Security	PCT US2016040645 (07/01/2016)	

No.	Description	Application Number	Registration Number
86.	Split Serving of Computer Code	PCT US2016041337 (07/07/2016)	
87.	Security Systems for Mitigating Attacks from a Headless Browser Executing on a Client Computer	PCT US2016025092 (03/30/2016)	
88.	Client/Server Security by an Intermediary Executing Instructions Received from a Server and Rendering Client Application Instructions	PCT US2016030462 (05/02/2016)	
89.	Challenge-Dynamic Credential Pairs for Client/Server Request Validation	PCT US2016018081 (02/16/2016)	
90.	Secure App Update Server and Secure Application Programming Interface ("API") Server	PCT US2015063811 (12/03/2015)	
91.	Call Stack Integrity Check on Client/Server Systems	PCT US2015062206 (11/23/2015)	
92.	Automated Hardening of Web Page Content	PCT US2015052030 (09/24/2015)	
93.	Client/Server Polymorphism Using Polymorphic Hooks	PCT US2015049024 (09/08/2015)	

No.	Description	Application Number	Registration Number
94.	Application Programming Interface Wall	PCT US2015044630 (08/11/2015)	
95.	Using Individualized APIs to Block Automated Attacks on Native Apps and/or Purposely Exposed APIs	PCT US2015039762 (07/09/2015)	
96.	Client/Server Authentication Using Dynamic Credentials	PCT US2015032060 (05/21/2015)	
97.	Polymorphic Treatment of Data Entered at Clients	PCT US2015031361 (05/18/2015)	
98.	Intercepting and Supervising Calls to Transformed Operations and Objects	PCT US2015012072 (01/20/2015)	
99.	Client/Server Security by an Intermediary Rendering Modified In-Memory Objects	PCT US2014068133 (12/02/2014)	
100.	Stateless Web Content Anti-Automation	PCT US2014023897 (03/12/2014)	
101.	Detecting the Introduction of Alien Content	PCT US2014024232 (03/12/2014)	

No.	Description	Application Number	Registration Number
102.	Protecting Against the Introduction of Alien Content	PCT US2014023635 (03/11/2014)	
103.	Safe Intelligent Content Modification	PCT US2014027805 (03/14/2014)	
104.	System for Finding Code in a Data Flow	PCT US2013026516 (02/15/2013)	

EXHIBIT C

Trademarks

No.	Description	Serial Number	Registration Number
1.	SHAPE SECURITY		4,937,549 (04/12/2016)
2.	SHAPE SECURITY		4,810,042 (09/08/2015)
3.	SHAPESHIFTER		4,786,157 (08/04/2015)
4.	BOTWALL		4,786,110 (08/04/2015)

EXHIBIT D

Mask Works

No.	Description	Application	Registration
1.	None Identified		