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10			
11	IN THE UNITED STA	TES DISTRICT C	COURT
12	FOR THE NORTHERN D	ISTRICT OF CAI	LIFORNIA
13			
14	FINJAN, INC., a Delaware Corporation,	Case No.:	
15	Plaintiff,	COMPLAINT F	
16	v. INFRINGEMENT		
17	CARBON BLACK, INC., a Delaware DEMAND FOR JURY TRIAL		
18	Corporation,		
19	Defendant.		
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	COMPLAINT FOR PATENT INFRINGEMENT	C	ASE NO.

COMPLAINT FOR PATENT INFRINGEMENT

Plaintiff Finjan, Inc. ("Finjan") files this Complaint for Patent Infringement and Demand for
Jury Trial against Carbon Black, Inc. ("Defendant" or "Carbon Black") and alleges as follows:

THE PARTIES

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1. Finjan is a Delaware Corporation with its principal place of business at 2000
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University Avenue, Suite 600, E. Palo Alto, California 94303.

7 2. Defendant is a Delaware Corporation with its headquarters and principal place of 8 business at 1100 Winter Street in Waltham, Massachusetts 02451. Defendant maintains a regular and 9 established place of business in this District at 530 Lytton Avenue, 2nd Floor, Suite 240 in Palo Alto, 10 California 94301. Defendant's website (https://www.carbonblack.com/contact-us/) lists 530 Lytton 11 Avenue in Palo Alto, California as one of its physical addresses under the title "Our Locations." On 12 information and belief, Defendant was formerly known as "BIT9, Inc." and "BIT 9, Inc." Defendant 13 may be served through its agent for service of process, The Corporation Trust Company, at 14 Corporation Trust Center, 1209 Orange Street in Wilmington, Delaware 19801.

JURISDICTION AND VENUE

This action arises under the Patent Act, 35 U.S.C. § 101 *et seq*. This Court has
original jurisdiction over this controversy pursuant to 28 U.S.C. §§ 1331 and 1338.

4. Venue is proper in this Court pursuant to 28 U.S.C. §§ 1391(b) and (c) and/or 1400(b).
5. This Court has personal jurisdiction over Defendant. Upon information and belief,
Defendant regularly and continuously does business in this District and has infringed or induced
infringement, and continues to do so, in this District. In addition, this Court has personal jurisdiction
over Defendant because minimum contacts have been established with this forum and the exercise of
jurisdiction would not offend traditional notions of fair play and substantial justice.

INTRADISTRICT ASSIGNMENT

25 6. Pursuant to Local Rule 3-2(c), Intellectual Property Actions are assigned on a district26 wide basis.

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FINJAN'S INNOVATIONS

7. Finjan was founded in 1997 as a wholly-owned subsidiary of Finjan Software Ltd., an Israeli corporation. In 1998, Finjan moved its headquarters to San Jose, California. Finjan was a 4 pioneer in developing proactive security technologies capable of detecting previously unknown and 5 emerging online security threats, recognized today under the umbrella term "malware." These 6 technologies protect networks and endpoints by identifying suspicious patterns and behaviors of 7 content delivered over the Internet. Finjan has been awarded, and continues to prosecute, numerous 8 patents covering innovations in the United States and around the world resulting directly from 9 Finjan's more than decades-long research and development efforts, supported by a dozen inventors 10 and over \$65 million in R&D investments.

11 8. Finjan built and sold software, including application program interfaces (APIs) and 12 appliances for network security, using these patented technologies. These products and related 13 customers continue to be supported by Finjan's licensing partners. At its height, Finjan employed 14 nearly 150 employees around the world building and selling security products and operating the 15 Malicious Code Research Center, through which it frequently published research regarding network 16 security and current threats on the Internet. Finjan's pioneering approach to online security drew 17 equity investments from two major software and technology companies, the first in 2005 followed by 18 the second in 2006. Finjan generated millions of dollars in product sales and related services and 19 support revenues through 2009, when it spun off certain hardware and technology assets in a merger. 20 Pursuant to this merger, Finjan was bound to a non-compete and confidentiality agreement, under 21 which it could not make or sell a competing product or disclose the existence of the non-compete 22 clause. Finjan became a publicly traded company in June 2013, capitalized with \$30 million. After 23 Finjan's obligations under the non-compete and confidentiality agreement expired in March 2015, 24 Finjan re-entered the development and production sector of secure mobile products for the consumer 25 market.

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FINJAN'S ASSERTED PATENTS

9. On October 12, 2004, U.S. Patent No. 6,804,780 ("the '780 Patent"), titled SYSTEM AND METHOD FOR PROTECTING A COMPUTER AND A NETWORK FROM HOSTILE DOWNLOADABLES, was issued to Shlomo Touboul. A true and correct copy of the '780 Patent is attached to this Complaint as Exhibit A and is incorporated by reference herein.

6 10. All rights, title, and interest in the '780 Patent have been assigned to Finjan, who is the
7 sole owner of the '780 Patent. Finjan has been the sole owner of the '780 Patent since its issuance.

8 11. The '780 Patent is generally directed towards methods and systems for generating a
9 downloadable ID. By generating an identification for each examined downloadable, the system may
10 allow for the downloadable to be recognized without reevaluation. Such recognition increases
11 efficiency while also saving valuable resources, such as memory and computing power.

12 12. On November 28, 2000, U.S. Patent No. 6,154,844 ("the '844 Patent"), titled SYSTEM
13 AND METHOD FOR ATTACHING A DOWNLOADABLE SECURITY PROFILE TO A
14 DOWNLOADABLE, was issued to Shlomo Touboul and Nachshon Gal. A true and correct copy of
15 the '844 Patent is attached to this Complaint as Exhibit B and is incorporated by reference herein.

16 13. All rights, title, and interest in the '844 Patent have been assigned to Finjan, who is the
17 sole owner of the '844 Patent. Finjan has been the sole owner of the '844 Patent since its issuance.

18 14. The '844 Patent is generally directed towards computer networks, and more
19 particularly, provides a system that protects devices connected to the Internet from undesirable
20 operations from web-based content. One of the ways this is accomplished is by linking a security
21 profile to such web-based content to facilitate the protection of computers and networks from
22 malicious web-based content.

15. On March 18, 2014, U.S. Patent No. 8,677,494 ("the '494 Patent"), titled
MALICIOUS MOBILE CODE RUNTIME MONITORING SYSTEM AND METHODS, was issued
to Yigal Mordechai Edery, Nimrod Itzhak Vered, David R. Kroll, and Shlomo Touboul. A true and
correct copy of the '494 Patent is attached to this Complaint as Exhibit C and is incorporated by
reference herein.

116. All rights, title, and interest in the '494 Patent have been assigned to Finjan, who is the2sole owner of the '494 Patent. Finjan has been the sole owner of the '494 Patent since its issuance.

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17. The '494 Patent is generally directed towards a method and system for deriving security profiles and storing the security profiles. One of the ways this is accomplished is by deriving a security profile for a downloadable, which includes a list of suspicious computer operations, and storing the security profile in a database.

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18. On March 20, 2012, U.S. Patent No. 8,141,154 ("the '154 Patent"), titled SYSTEM
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AND METHOD FOR INSPECTING DYNAMICALLY GENERATED EXECUTABLE CODE, was
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11 19. All rights, title, and interest in the '154 Patent have been assigned to Finjan, who is the
12 sole owner of the '154 Patent. Finjan has been the sole owner of the '154 Patent since its issuance.

13 20. The '154 Patent is generally directed towards a gateway computer protecting a client
14 computer from dynamically generated malicious content. One of the ways this is accomplished is by
15 using a content processor to process a first function and invoke a second function if a security
16 computer indicates that it is safe to invoke the second function.

17 21. The '780 Patent, the '844 Patent, the '494 Patent, and the '154 Patent, as described in
18 paragraphs 9–20 above, are collectively referred to as the "Asserted Patents" herein.

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FINJAN'S NOTICE OF INFRINGEMENT TO DEFENDANT

20 22. Finjan and Defendant's patent discussions date back to December 2015. Finjan
21 contacted Defendant on or about December 17, 2015, regarding a potential license to Finjan's patents,
22 including the '780, '844, '494, and '154 Patents. Finjan identified and described the following
23 products made, used, or sold by Defendant as infringing Finjan's Patents: Bit9 + Carbon Black
24 Solution, the Bit9 Security Platform, and the Bit9 + Carbon Black Threat Intelligence Cloud.

25 23. Finjan delivered another letter to Defendant on or about January 21, 2016, which
26 described in detail how Defendant's products practice the claim elements of the Asserted Patents.
27 Finjan's letter on or about January 21, 2016, also described Finjan's successes before the U.S. Patent

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and Trademark Office's Patent Trial and Appeal Board ("PTAB"), including the fact that no claims
 of the Asserted Patents had been determined to be unpatentable.

24. On or about February 18, 2016, Finjan provided Defendant with exemplary claim
charts detailing how the '844, '494, and '154 Patents read on Defendant's products. Specifically, this
presentation identified how the '844, '494, and '154 Patents read on: Carbon Black Endpoint
Solution; Endpoint Threat Detection; Cb Enterprise; and Cb Threat Intel. This presentation on or
about February 18, 2016, also identified the '780 Patent and described that Defendant's Cb Response,
Cb Enterprise, and Cb Threat Intel all perform the invention claimed in the '780 Patent.

9 25. From February 2016 until in or around February 2018, Finjan attempted to engage 10 Defendant in licensing discussions. Finjan met with Defendant in person in Boston in August 2017, 11 during which meeting Finjan explained in detail how each of the Asserted Patents reads on each of 12 the Accused Products. Finjan has diligently pursued Carbon Black regarding its infringement, and 13 has engaged in at least eighteen meetings, by telephone, video, or in person, over more than two years 14 in an attempt to engage Carbon Black in licensing discussions. Despite Finjan's earnest and 15 consistent efforts, Defendant refused to take a license to Finjan's patents. At no time has Defendant 16 provided any reasonable explanation-legal or otherwise-countering Finjan's exemplary claim 17 charts as to how any of the Accused Products do not infringe any of the Asserted Patents.

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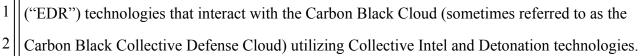
Carbon Black

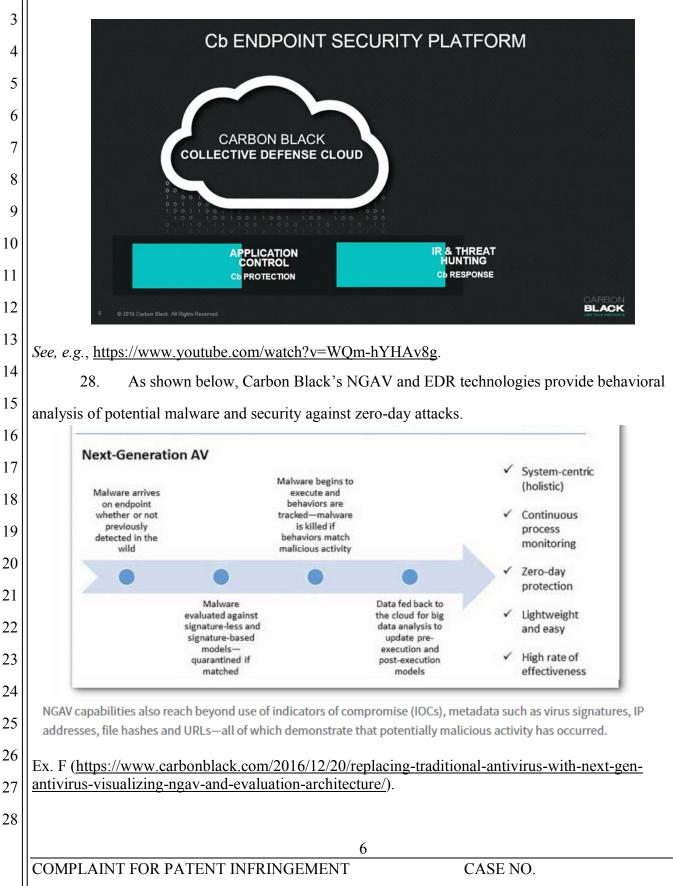
Defendant makes, uses, sells, offers for sale, and/or imports into the United States and
 this District products and services that utilize the Cb Predictive Security Cloud, Cb Response, Cb
 Defense, Cb Defense for VMware, and Cb Protection (formerly known as Carbon Black Enterprise
 Protection/Bit9 Security Platform/Bit9 Party Suite) products, services, and technologies (collectively,
 "Accused Products"). See Ex. E (https://www.carbonblack.com/products/).

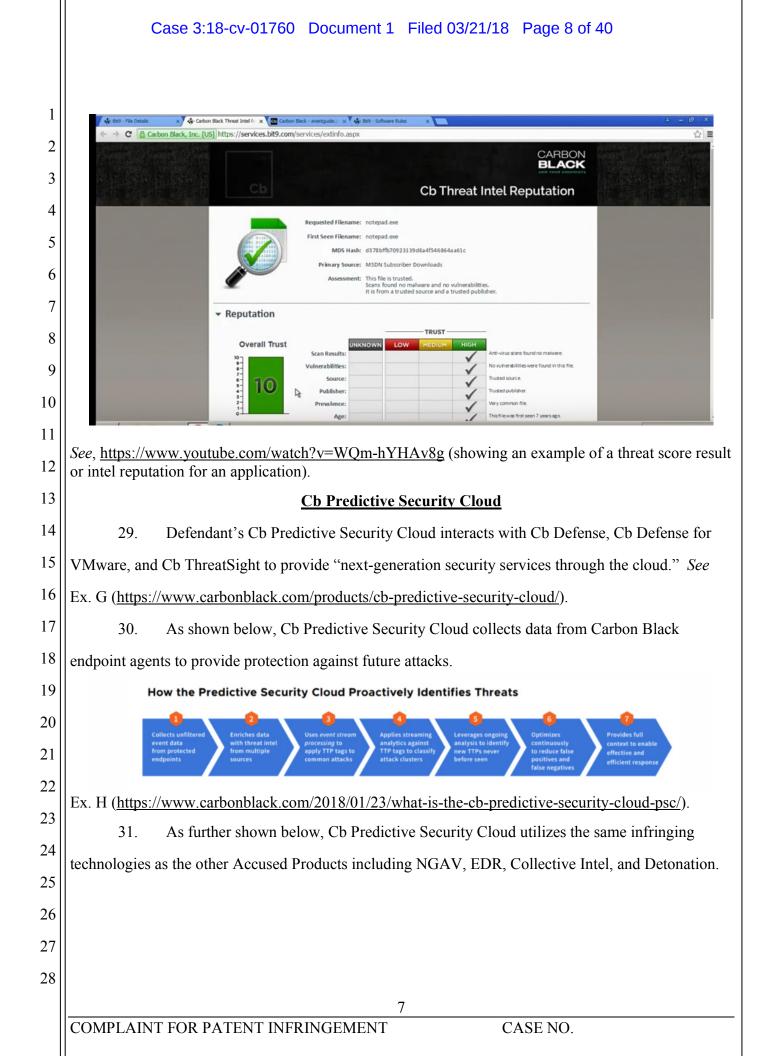
24 27. All Carbon Black Accused Products operate in a similar manner and utilize the same
25 infringing technologies described herein. For example, Carbon Black utilizes lightweight agents on
26 endpoints with its Next-Generation Anti-Virus ("NGAV") and Endpoint Detection and Response

- 27 28
- COMPLAINT FOR PATENT INFRINGEMENT

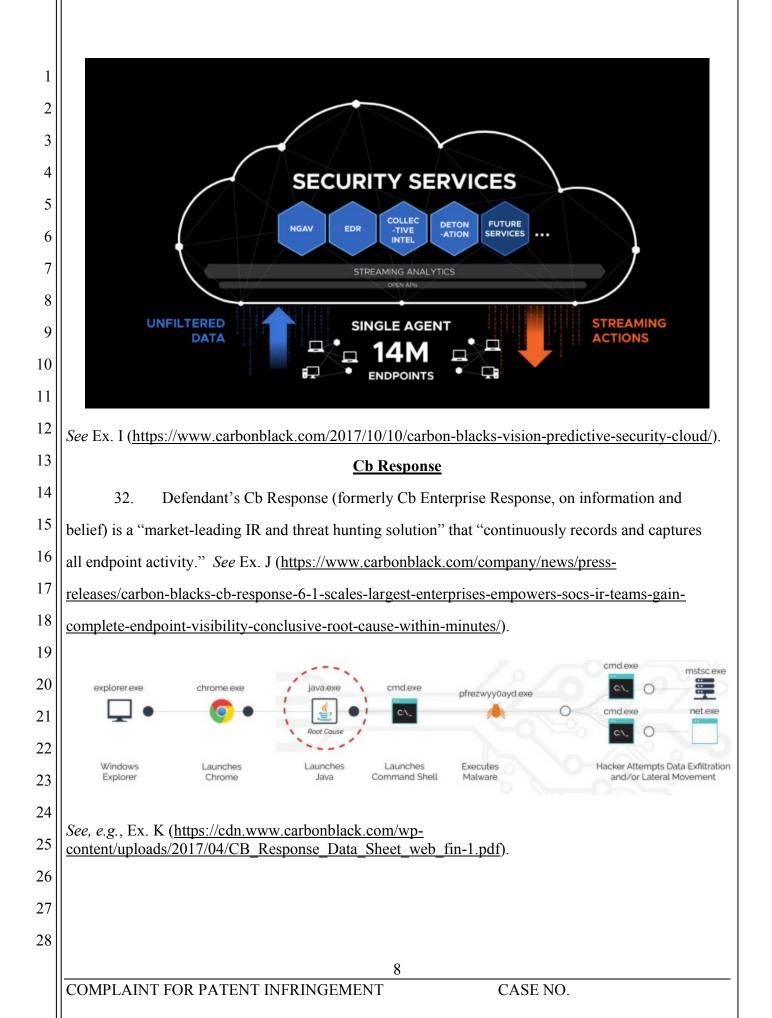












Cb Defense and Cb Defense for VMware

2 33. Defendant's Cb Defense (and related Cb Defense for VMware) operates as a
3 lightweight software agent at an endpoint and utilizes Carbon Black's cloud technologies to prevent
4 malicious attacks. *See, e.g.*, Ex. L (Cb_Defense_ds_web-1.pdf).

5	Cb Defense not only blocks all With "Go Live" you can immediately types of attacks, but provides full isolate the threat and remediate		
6	visibility into the source and nature of each attack Cb Defense console		
7	avery hadro (printigenegated) y avery hadro (printigenegated) y avery hadro (printigenegated) y		
8	COLUMNON CALLET - How Huge Y SUBJECT COLUMNON		
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13	Adder Taller, Schwarzung und Presendent		
14	Attacks can be complex, but understanding how		
15	they work and what to do isn't with Cb Defense Cb Defense is a cloud-delivered, single-agent NGAV designed to automatically		
16	detect and prevent malware and non-malware attacks.		
17	STREAMING PREVENTION		
18	Going beyond machine-learning AV, Cb Defense employs streaming prevention to continuously analyze the entire attack sequence to stop any attacker before they		
19	execute their payload and compromise your system.		
20	See Ex. L (Cb_Defense_ds_web-1.pdf).		
21	<u>Cb Protection</u>		
22	34. Defendant's Cb Protection (formerly known as Carbon Black Enterprise		
23	Protection/Bit9 Security Platform/Bit9 Party Suite) is sold as licensed software that includes an on-		
24	premise Management Console, Cb Protection Agent (a light weight software that runs on endpoints),		
25	and a subscription to Cb Protection software (including Cb Collective Defense Cloud, maintenance,		
26	and support).		
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	COMPLAINT FOR PATENT INFRINGEMENT CASE NO.		

DEFENDANT'S INFRINGEMENT OF FINJAN'S PATENTS

35. Defendant has been and is now infringing, and will continue to infringe, the Asserted
Patents in this Judicial District and elsewhere in the United States by, among other things, making,
using, importing, selling, and/or offering for sale its Cb Predictive Security Cloud, Cb Response, Cb
Defense, Cb Defense for VMware, and Cb Protection (formerly known as Carbon Black Enterprise
Protection/Bit9 Security Platform/Bit9 Party Suite) products and services ("Accused Products").
36. In addition to directly infringing the Asserted Patents pursuant to 35 U.S.C. § 271(a),
either literally or under the doctrine of equivalents, or both, Defendant indirectly infringes all the
Asserted Patents by instructing, directing, and/or requiring others, including its customers,
purchasers, users, and developers, to perform all or some of the steps of the method claims, either
literally or under the doctrine of equivalents, or both, of the Asserted Patents.
<u>COUNT I</u>
(Direct Infringement of the '780 Patent pursuant to 35 U.S.C. § 271(a))

37. Finjan repeats, realleges, and incorporates by reference, as if fully set forth herein, the allegations of the preceding paragraphs, as set forth above.

38. Defendant has infringed Claims 1-18 of the '780 Patent in violation of 35 U.S.C. \$ 271(a).

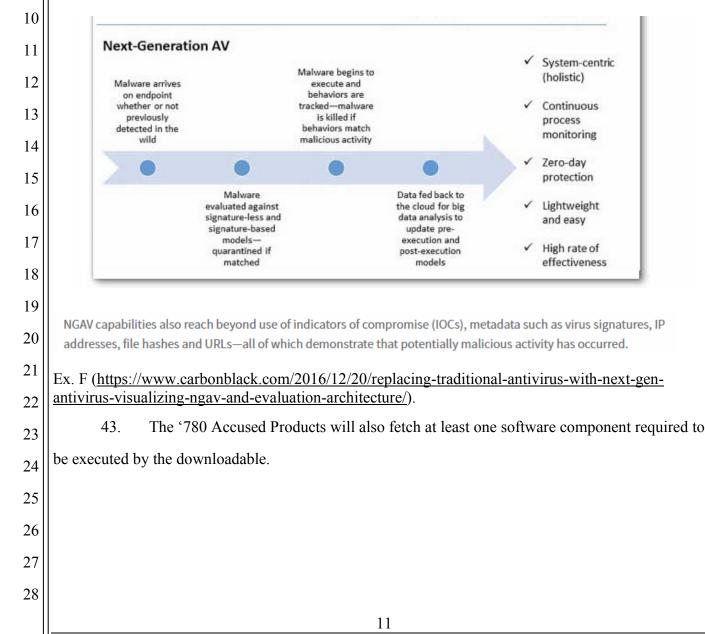
39. Defendant's infringement is based upon literal infringement or infringement under the doctrine of equivalents, or both.

40. Defendant's acts of making, using, importing, selling, and/or offering for sale infringing products and services have been without the permission, consent, authorization, or license of Finjan.

41. Defendant's infringement includes, but is not limited to, the manufacture, use, sale, importation and/or offer for sale of Defendant's products and services, including its Cb Predictive Security Cloud, Cb Response, Cb Defense, Cb Defense for VMware, and Cb Protection (formerly known as Carbon Black Enterprise Protection/Bit9 Security Platform/Bit9 Party Suite) products and services (collectively, the "'780 Accused Products").

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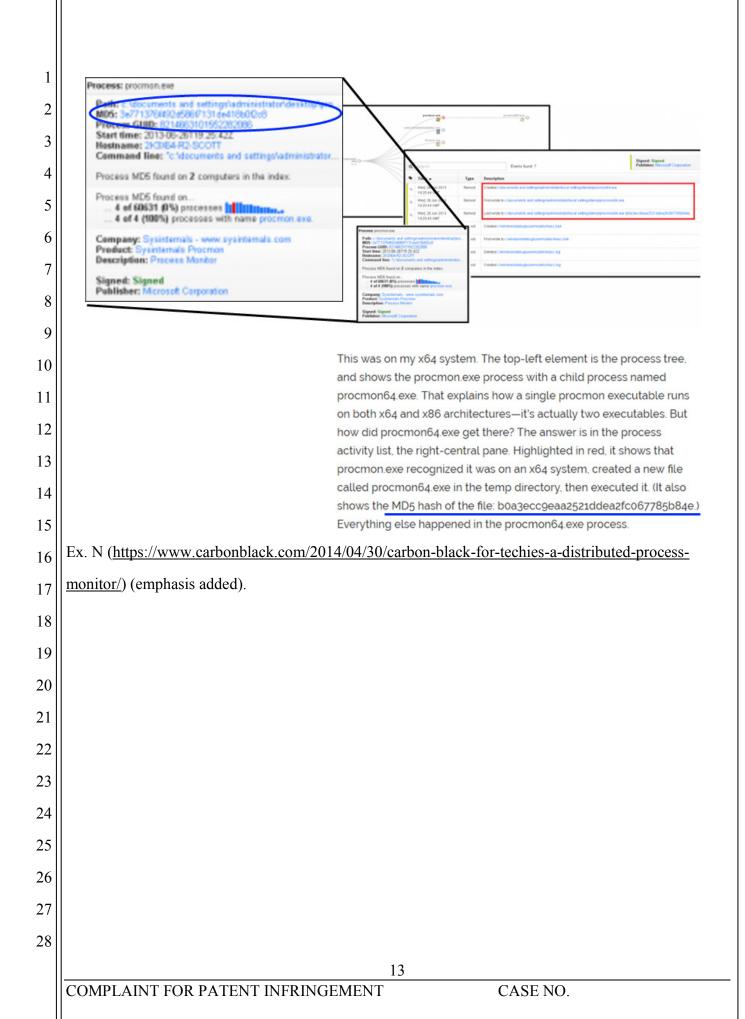
1 42. The '780 Accused Products embody the patented invention of the '780 Patent and 2 infringe the '780 Patent because they practice a method of obtaining a downloadable that includes 3 one or more references to software components required to be executed by the downloadable, 4 fetching at least one software component required to be executed by the downloadable, and 5 performing a hashing function on the downloadable and the fetched software components to generate 6 a downloadable ID. For example, as shown below, the '780 Accused Products provide gateway 7 security to end users, where they receive downloadables that include one or more references to 8 executable software components, including .exe files, .pdf files, and other downloadables that might 9 exhibit malicious behavior.



COMPLAINT FOR PATENT INFRINGEMENT

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1	Endpoints		
2 3	GET /status/{hash}		
4	The status endpoint returns data about the status of the inspection.		
5	Parameters		
6	in name type required description		
7	path hash string true Hex string of either MD5 or SHA256 checksum of submitted binary		
8	Response		
9	<pre>{ "metadata": {</pre>		
10	<pre>"magic": "PE32 executable for MS Windows (native) Intel 80386 32-bit", "md5": "a0a0a0a0a0a0a0a0a0a0a0a0a0a0a0a0a0",</pre>		
11	<pre>"mime": "application/octet-stream", "name": "2c018e375986cb29a76910850eb83bb0c14ed22c2d00194692e27955f3707f67.exe", "bef": "2c020-00-00-0c020-00-00-00-00-00-00-00-00-00-00-00-00-</pre>		
12	" <u>sha1</u> ": "a0a0a0a0a0a0a0a0a0a0a0a0a0a0a0a0a0a0a0		
13	3		
14			
15	(emphasis added) (showing that Carbon Black generates downloadable IDs using MD-5, SHA1, or SHA256 hashing functions).		
16	44. The '780 Accused Products perform a hashing function (such as MD-5, SHA1, or		
17	SHA256) on the downloadable to generate a downloadable ID, as shown above and below. The '780		
18	Accused Products hash files and components that are referenced by the downloadable as part of		
19	creating a downloadable ID, such as dropped files.		
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	COMPLAINT FOR PATENT INFRINGEMENT CASE NO.		

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· · ·	Searching with Binary Joins
	Some binary search fields can be used as part of a process search query. (See Table 1, "Fields in Carbon Black Process and Binary Searches", on page 4, for more information.) In this case, the results returned are process instances backed by binaries that match the binary search criteria. This is called a joined searched. For example, consider submitting the following query on the process search page:
	digsig_result:Unsigned
	This query returns all process instances backed by an MD5 that is unsigned.
	By default, join searches are performed against the MD5 of the standalone process executable (process_md5). However, joined searches can also be performed against the MD5 of the following related events:
	filewritesparent processes
	child processes
	• modloads
	Specify the search by appending the following suffixes to the end of the binary search field: filewrite, parent, child and modload. For example:
	digsig_result_modload:Unsigned This guery returns all process instances that have loaded on unsigned module
	This query returns all process instances that have loaded an unsigned module.
Ex. O (<u>ŀ</u>	attps://developer.carbonblack.com/resources/query_overview.pdf) (emphasis adde
Ex. O (<u>I</u>	<u>attps://developer.carbonblack.com/resources/query_overview.pdf</u>) (emphasis adde
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Ex. O (<u>I</u>	<pre>https://developer.carbonblack.com/resources/query_overview.pdf) (emphasis adde ttps://developer.carbonblack.com/resources/query_overview.pdf)</pre>
Ex. O (<u>I</u>	<u>ittps://developer.carbonblack.com/resources/query_overview.pdf</u>) (emphasis adde

	Case 3:18-cv-01760 Document 1 Filed 03/21/1	8 Page 16 of 40	
1	File: netddesrv.exe	Original File	
2	The "netddesrv.exe" file is a backdoor / remote access tool containing an embedded rootkit		
	component. This file was dropped on the compromised virtual system containing the Bit9 code-signing certificate. This backdoor is customized for each victim and creates a		
3	corresponding "netddrsrv.conf" configuration file which we believe contains the target name and the beacon address to use.		
4	Filename netddesrv.exe	Carbon Black obtains	
5	File size 73216 bytes	embedded, dropped, and child	
6	MD5 fc99fa2d9872eab586478b98c33beca5	components of original file and hashes them to create a	
7	SHA1 57f2d86de4de82627ab6ada51be6903f37a0d583	MD5, SHA1, and SHA256 value	
	Version Child Type: StringFileInfo Embedded File		
8	File: hitx.sys		
9	The "hitx.sys" file is a malicious driver embedded into "netddesrv.exe". The driver is encod		
10	inside "netddesrv.exe" with the following single-byte XOR key: "0x76". The driver is create the system "c:\windows\temp" directory. Once the rootkit service is started and loaded i		
11	memory, the "hitx.sys" rootkit file is deleted from the system.		
12	Filename hitx.sys		
13	File size 15360 bytes		
13	MD5 03f70e7761d331615e88c1d7841ce906		
14	SHA1 ce0881baa86b1f4de37f87342a505dcaa4c8406d		
15	Version Child Type: StringFileInfo		
16	Ex. P (https://www.carbonblack.com/2013/02/25/bit9-security-inc	ident-update/) (emphasis added).	
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19	46. Defendant has been specifically long-aware of Finj	an's patents, including the '780	
20	Patent, and has acted recklessly and egregiously with conduct that	is willful, wanton, malicious, bad-	
21	faith, deliberate, wrongful, and flagrant by its continued infringing activity despite possessing specific		
22	knowledge of its infringement of the '780 Patent. Defendant has had specific knowledge of its		
23	infringement of the '780 Patent since at least in or about February 2016, when Finjan specifically		
24	identified and described the '780 Patent and how the '780 Patent re	eads on Defendant's Cb Protection,	
25	Cb Response, and Cb Threat Intel.		
26	47. On information and belief, despite its knowledge of	the '780 Patent and its knowledge	
		c c	
27	of its own infringement of that patent since at least in or about Feb	ruary 2016, Defendant made no	
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1 effort to design its products or services around the '780 Patent in order to avoid infringement. 2 Instead, on information and belief, Defendant incorporated infringing technology into additional 3 products, such as those identified in this Complaint. All of these actions demonstrate Defendant's 4 blatant and egregious disregard for, and willful infringement of, Finjan's patent rights.

5 48. Despite its knowledge of the Asserted Patents and being provided representative claim 6 charts of the Asserted Patents, Defendant has sold and continues to sell the Accused Products and 7 Services in complete and reckless disregard of Finjan's patent rights. As such, Defendant has acted 8 recklessly and continues to willfully, wantonly, and deliberately engage in acts of infringement of the 9 '780 Patent, justifying an award to Finjan of increased damages under 35 U.S.C. § 284, and 10 attorneys' fees and costs incurred under 35 U.S.C. § 285.

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COUNT II

(Indirect Infringement of the '780 Patent pursuant to 35 U.S.C. § 271(b))

49. Finjan repeats, realleges, and incorporates by reference, as if fully set forth herein, the allegations of the preceding paragraphs, as set forth above.

Defendant has induced infringement of at least Claims 1-8 of the '780 Patent under 35 50. U.S.C. § 271(b).

51. In addition to directly infringing the '780 Patent, Defendant indirectly infringes the 17 780 Patent pursuant to 35 U.S.C. § 271(b) by instructing, directing and/or requiring others, including 18 customers, purchasers, users and developers, to perform some of the steps of the method claims, 19 either literally or under the doctrine of equivalents, of the '780 Patent, where all the steps of the 20method claims are performed by either Defendant or its customers, purchasers, users, and developers, or some combination thereof. Defendant knew or was willfully blind to the fact that it was inducing 22 others, including customers, purchasers, users and developers, to infringe by practicing, either 23 themselves or in conjunction with Defendant, one or more method claims of the '780 Patent, 24 including Claims 1-8. 25

52. Defendant knowingly and actively aided and abetted the direct infringement of the 780 Patent by instructing and encouraging its customers, purchasers, users, and developers to use the

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1 '780 Accused Products. Such instruction and encouragement includes, but is not limited to, advising 2 third parties to use the '780 Accused Products in an infringing manner, providing a mechanism 3 through which third parties may infringe the '780 Patent, advertising and promoting the use of the 4 '780 Accused Products in an infringing manner, and distributing guidelines and instructions to third 5 parties on how to use the '780 Accused Products in an infringing manner. 6 53. Defendant updates and maintains an HTTP site with Defendant's administration 7 guides, user guides, operating instructions, and training and certifications which cover in depth 8 aspects of operating the Accused Products. See, e.g., Ex. Q

9 (https://www.carbonblack.com/resources/support/).

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COUNT III

(Direct Infringement of the '844 Patent pursuant to 35 U.S.C. § 271(a))

54. Finjan repeats, realleges, and incorporates by reference, as if fully set forth herein, the 12 allegations of the preceding paragraphs, as set forth above. 13

55. Defendant has infringed and continues to infringe Claims 1-44 of the '844 Patent in 14 violation of 35 U.S.C. § 271(a). 15

56. Defendant's infringement is based upon literal infringement or infringement under the 16 doctrine of equivalents, or both. 17

57. Defendant's acts of making, using, importing, selling, and/or offering for sale 18 infringing products and services have been without the permission, consent, authorization, or license 19 of Finjan. 20

58. Defendant's infringement includes the manufacture, use, sale, importation and/or offer for sale of Defendant's products and services, including the Cb Predictive Security Cloud, Cb 22 Response, Cb Defense, Cb Defense for VMware, and Cb Protection (formerly known as Carbon Black 23 Enterprise Protection/Bit9 Security Platform/Bit9 Party Suite) (collectively, the "844 Accused 24 Products"). 25

59. The '844 Accused Products embody the patented invention of the '844 Patent and infringe the '844 Patent because they practice a method of receiving by an inspector a downloadable,

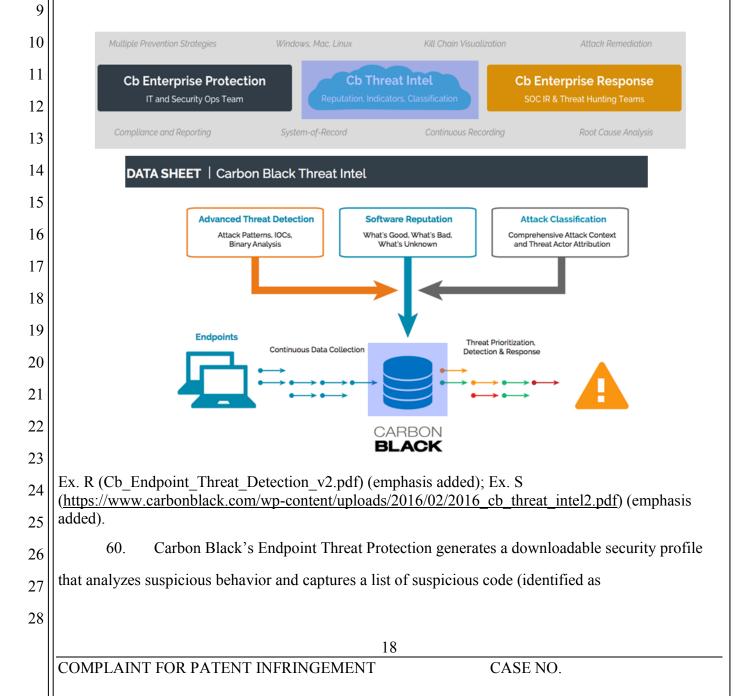
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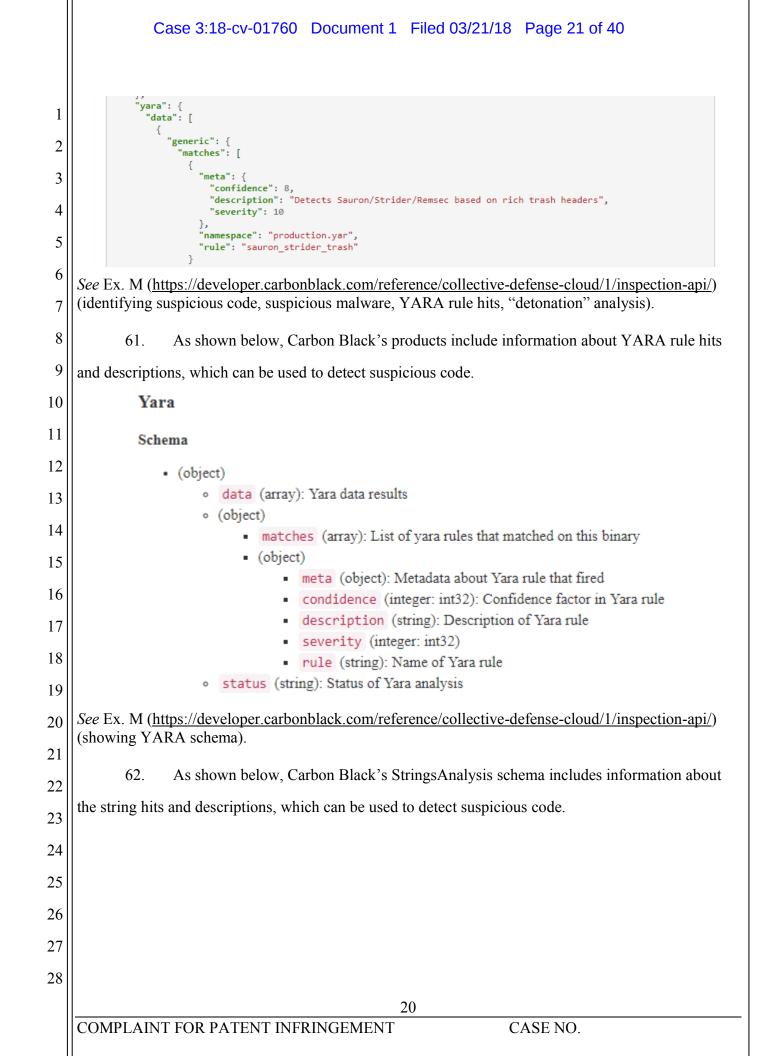
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1 generating by the inspector (e.g., Carbon Black's Advanced Threat Detection and Advanced Threat 2 Indicators) a first downloadable security profile that identifies suspicious code in the received 3 downloadable, and linking by the inspector the first downloadable security profile to the downloadable 4 before a web server makes the downloadable available to web clients. See Ex. R 5 (Cb Endpoint Threat Detection_v2.pdf); Ex. S (https://www.carbonblack.com/wp-6 content/uploads/2016/02/2016 cb threat intel2.pdf). For example, as shown below, the '844 Accused 7 Products provide security to end users, where incoming downloadables (e.g., PDFs with JavaScript, 8 EXE files, or JavaScript embedded within an HTML file) are received by the '844 Accused Products.







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1		StringsAnalysis	
2		Schema	
3		• (object)	
4		 data (array): generic object wrapper 	
5		 (object) ascii_strings (string): ascii strings 	
6		 unicode_strings (string): unicode strings 	
7		• status (string): Status of StringsAnalysis	
8	See Ex. M (<u>https://d</u> (showing StringAna	leveloper.carbonblack.com/reference/collective-defense-cloud/1/inspection-api/) alysis schema).	
9	63. As sl	hown below, Carbon Black's Detonation schema includes information about the	
10 11	detonation, which c Detonation	an be used to detect suspicious code.	
12	Schema		
13	• (object)		
14	 (alay): List of data sections (object) te (object): Emulation telemetry data 		
15	 System (object) OsInfo (string): Description of OS 		
16		 OSRev (string): OS Rev of Sandbox environment OSUID (string): unique identifier for Sandbox environment 	
	 Osname (string): Name of OS (e.g. Windows 8.1) Activities (object): Set of activities observed during execution on the sandbox 		
17	• Act	Command (array): list of Commands performed during execution	
18	 (object) Action (string): Name of action performed. e.g. QueryKey, Read, CommandName (string: RegistryEvent FileSystemEvent NetworkEvent SuspiciousActivityEvent 		
19	 CommandName (string: RegistryEvent, FileSystemEvent, NetworkEvent, SuspiciousActivityEvent, ProcessEvent, NetworkHTTPEvent): Type of command performed. e.g. RegistryEvent, EileSystemEvent 		
20	FileSystemEvent SuspiciousActivities (object): Set of behaviours observed during execution on the sandbox Constitution (chiest)		
21	 SuspiciousEvent (object) Type (string): type of suspicious activity observed during execution 		
22	 SuspiciousActivity (array): list of observed behaviours during execution on sandbox (object) 		
23	 Path (string) av (object): Antivirus Scanner Information 		
24	 signature_name (string): Malware signature name status (string): Status of Detonation 		
25			
26	See Ex. M (<u>https://d</u> (showing Detonatio	leveloper.carbonblack.com/reference/collective-defense-cloud/1/inspection-api/) on schema).	
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		21	
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64. As shown below, Carbon Black's ScoreFactors and Report schemas includes

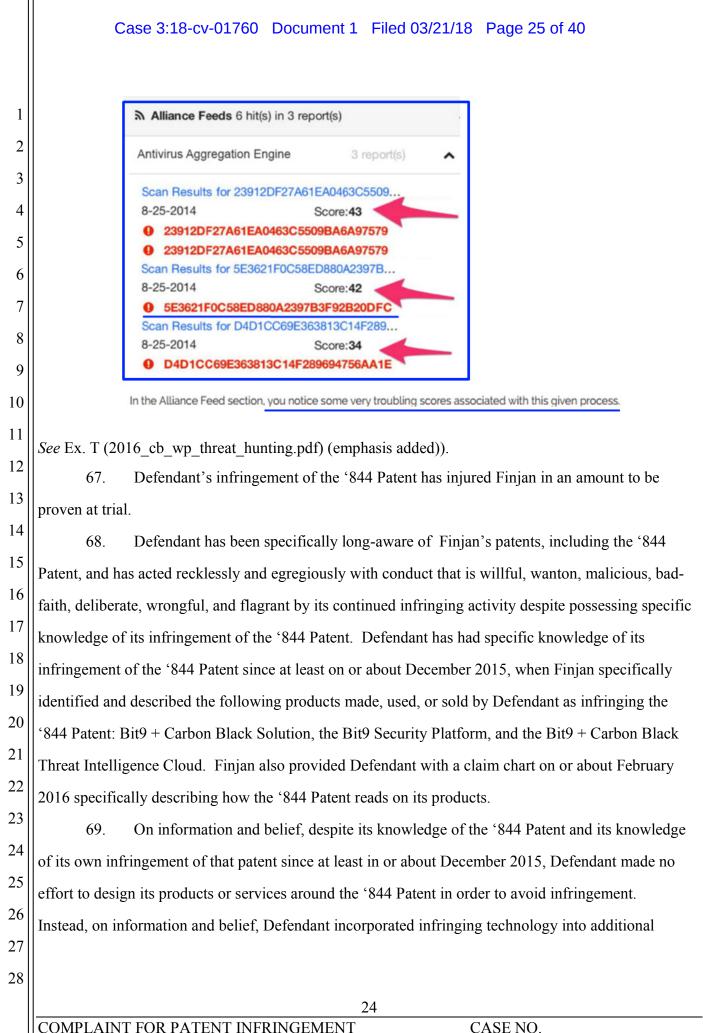
2 || information about the downloadable, including scores related to a downloadable's suspiciousness.

3	ScoreFactors			
4	Schema			
5 6 7 8 9 10 11 12 13 14 15	Schema • (object) • detonation (object): Detonation score information • score (integer: int32): Score of detonation • verdict (string: good, bad, suspicious, unknown): Enum of verdict from detonation • yara (object): Yara score information • score (integer: int32): Score of Yara • verdict (string: good, bad, suspicious, unknown): Enum of verdict from Yara • verdict (string: good, bad, suspicious, unknown): Enum of verdict from Yara • cb_reputation (object) • score (integer: int32): Score of CB reputation • prevalence (object): Prevalence • score (integer: int32): Factor for community prevalence See Ex. M (<u>https://developer.carbonblack.com/reference/collective-defense-cloud/1/inspection-api/</u>) (showing Detonation schema stored in a security profile). 65. As shown below, Carbon Black's Endpoint Threat generates a downloadable security profile that analyzes suspicious behavior and captures a list of suspicious code.			
16		Suspicious Application Behavior	Example	
17 18	Possible exploit of document-handling application Shell execution from document-handling application Unexpected command shell use File execution from recycle bin			
19		Suspicious Executable Properties	Example	
20 21	Suspicious executable based on location A common non-executable file name is dropped into and run from a recycle bin or temp folder such as a file with a PDF or GIF extension Suspicious executable based on extension			
22		Process Injection	Example	
23		Possible password hash tool execution	Malware inject into MS Local Security Authority Subsystem Service (LSASS) gaining access to password cache on an endpoint	
24	Suspicious process injection (LSASS) gaining access to password cache on an endpoint			
25	System Configuration Tampering Example			
26 27	Possible name resolution tampering Malware arrives and tampers with system configuration: Explorer file Unusual change to startup configuration Possible file hiding			
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1 Ex. R (Cb_Endpoint_Threat_Detection_v2.pdf) (emphasis added). 2 Advanced Threat Indicators (ATI), developed by the Carbon 3 Black threat research team, monitor and examine many system 4 facets, including files, registry, process and memory execution, 5 to identify potential compromise or infection in real time. ATIs 6 also can examine the recorded history of endpoint activity that 7 Ex. R at (Cb Endpoint Threat Detection v2.pdf) (emphasis added). 8 66. Carbon Black links the downloadable security profile to the downloadable before it is 9 made available to the client. For example, Carbon Black uses rules to determine a "score" on whether 10the content is malicious and links the downloadable security profile to the downloadable to prevent 11 access to the downloadable via a blocking mechanism. 12 5E3621F0C58ED880A2397B3F92B20DF0 13 5E3621F0C58ED880A2397B3F92B20DFC 14 Seen as: assistantsvc.dll First seen at: 2014-08-22T09:03:16.111Z (about 3 days ago) 15 Status: Unsigned Publisher Name: 16 70.83 KR 17 18 19 20 When diving in deeper and looking at the details of a specific binary, you notice that it has very little metadata, it is unsign 21 t has a large threat score. At a glance, you can also see that three hosts (endpoints) have observed this particular binary 22 23 dditionally, you When diving in deeper and looking at the details of a specific binary, you notice that it has very little metadata, it is unsigned and it has a large threat score. At a glance, you can also see that three hosts (endpoints) have observed this particular binary. 24 Q Searc 25 2014-08-22 08:47:34.05 GMT 26 Additionally, you can see that it has made a network connection. Moving forward, you can use this IP and domain as an indicator of compromise for future detection alongside the filename, hash value and other exhibit behaviors. 27 28 23

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products, such as those identified in this Complaint. All of these actions demonstrate Defendant's
blatant and egregious disregard for, and willful infringement of, Finjan's patent rights.

70. Despite its knowledge of the Asserted Patents and being provided representative claim
charts of the Asserted Patents, Defendant has sold and continues to sell the Accused Products and
Services in complete and reckless disregard of Finjan's patent rights. As such, Defendant has acted
recklessly and continues to willfully, wantonly, and deliberately engage in acts of infringement of the
'844 Patent, justifying an award to Finjan of increased damages under 35 U.S.C. § 284, and
attorneys' fees and costs incurred under 35 U.S.C. § 285.

COUNT IV

(Indirect Infringement of the '844 Patent pursuant to 35 U.S.C. § 271(b))

71. Finjan repeats, realleges, and incorporates by reference, as if fully set forth herein, the allegations of the preceding paragraphs, as set forth above.

72. Defendant has induced and continues to induce infringement of one or more claims of the '844 Patent under 35 U.S.C. § 271(b).

73. In addition to directly infringing the '844 Patent, Defendant indirectly infringes the '844 Patent pursuant to 35 U.S.C. § 271(b) by instructing, directing and/or requiring others, including customers, purchasers, users and developers, to perform some of the steps of the method claims of the '844 Patent, either literally or under the doctrine of equivalents, where all the steps of the method claims are performed by either Defendant or its customers, purchasers, users and developers, or some combination thereof. Defendant knew or was willfully blind to the fact that it was inducing others, including customers, purchasers, users and developers, to infringe by practicing, either themselves or in conjunction with Defendant, one or more method claims of the '844 Patent, including Claims 1-14 and 23-31.

74. Defendant knowingly and actively aided and abetted the direct infringement of the '844 Patent by instructing and encouraging its customers, purchasers, users and developers to use the '844 Accused Products. Such instruction and encouragement includes, but is not limited to, advising third parties to use the '844 Accused Products in an infringing manner, providing a mechanism through

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which third parties may infringe the '844 Patent, advertising and promoting the use of the '844
Accused Products in an infringing manner, and distributing guidelines and instructions to third parties
on how to use the '844 Accused Products in an infringing manner.

4 75. Defendant updates and maintains an HTTP site with Defendant's administration
5 guides, user guides, operating instructions, and training and certifications which cover in depth
6 aspects of operating the Accused Products. *See, e.g.*, Ex. Q

7 (<u>https://www.carbonblack.com/resources/support/</u>).

COUNT V

(Direct Infringement of the '494 Patent pursuant to 35 U.S.C. § 271(a))

76. Finjan repeats, realleges, and incorporates by reference, as if fully set forth herein, the allegations of the preceding paragraphs, as set forth above.

12 77. Defendant has infringed Claims 3-5 and 7-18 of the '494 Patent in violation of 35
13 U.S.C. § 271(a).

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 78. Defendant's infringement is based upon literal infringement or, in the alternative,
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 infringement under the doctrine of equivalents.

79. Defendant acts of making, using, importing, selling, and/or offering for sale infringing products and services have been without the permission, consent, authorization or license of Finjan.

80. Defendant's infringement includes, but is not limited to, the manufacture, use, sale, importation and/or offer for sale of Defendant's products and services, including its Cb Predictive Security Cloud, Cb Response, Cb Defense, Cb Defense for VMware, and Cb Protection (formerly known as Carbon Black Enterprise Protection/Bit9 Security Platform/Bit9 Party Suite) products and services (collectively, the "494 Accused Products").

81. The '494 Accused Products embody the patented invention of the '494 Patent and infringe the '494 Patent because they practice a system for managing downloadables comprising a receiver for receiving an incoming downloadable, a scanner for deriving security profile data for the downloadable, including a list of suspicious computer operations that may be attempted by the downloadable, and a database manager for storing the downloadable security profile data in a

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1 database. For example, as shown below, the '494 Accused Products provide security to end users, 2 where incoming downloadables are received by the '494 Accused Products. For example, Carbon 3 Black's Advanced Threat Indicators (ATI) derive security profile data for the downloadable, which 4 includes a list of suspicious computer operations that may be attempted by the downloadable. As 5 shown below, Carbon Black's Accused Products and Services receive incoming downloadables such 6 as JavaScript and Java, and monitor their actions for suspicious operations.

Advanced Threat Indicators (ATI), developed by the Carbon

Black threat research team, monitor and examine many system

facets, including files, registry, process and memory execution.

to identify potential compromise or infection in real time. ATIs

also can examine the recorded history of endpoint activity that

Continuous Endpoint Visibility

Recorded Relationships

Ex. R (Cb Endpoint Threat Detection v2.pdf) (emphasis added).

All File

Modifications

Executed Binary

All Registry

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- 13 14 15 16
- 17 18

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Modifications Copy of Every

25 26 See Ex. T (2016 cb wp threat hunting.pdf). 27



COMPLAINT FOR PATENT INFRINGEMENT

All File

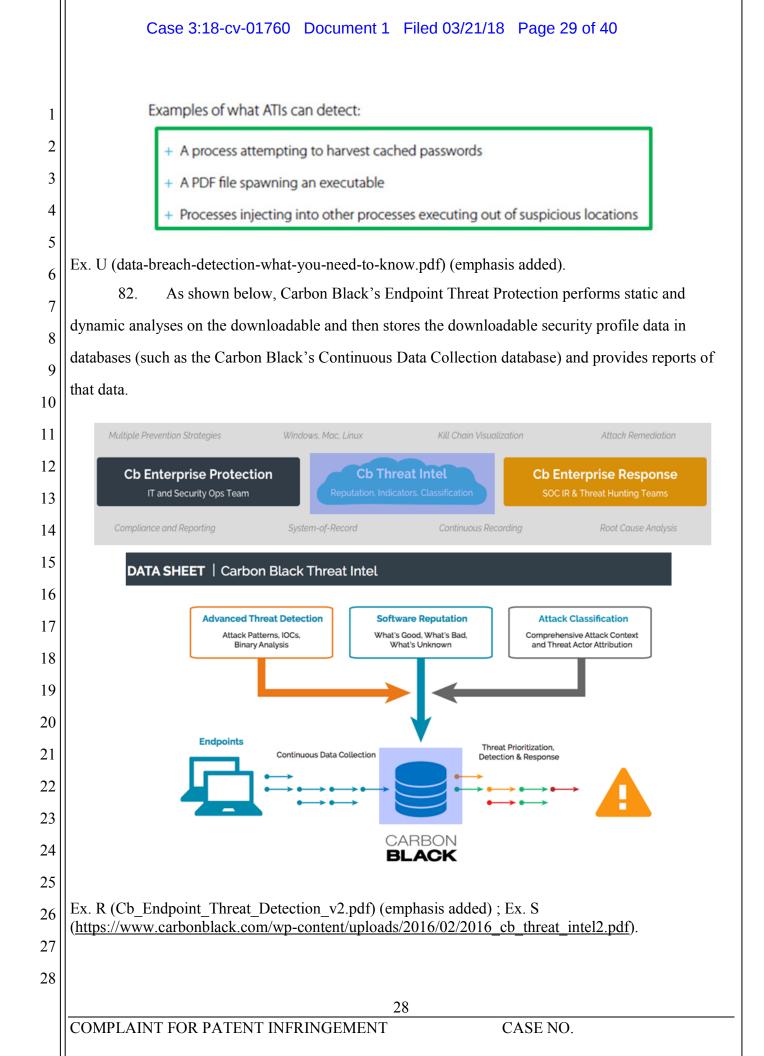
Executions

All Network

Connections

All Cross-Process

Events



83. As shown below, Carbon Black's Endpoint Threat Protection derives security profile data identifying suspicious operations using a variety of rules and "detonation" and stores them in a

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3
     database.
 4
            "metadata": {
             "magic": "PE32 executable for MS Windows (native) Intel 80386 32-bit",
             "md5": "a0a0a0a0a0a0a0a0a0a0a0a0a0a0a0a0a0a0,
 5
             "mime": "application/octet-stream",
             "name": "2c018e375986cb29a76910850eb83bb0c14ed22c2d00194692e27955f3707f67.exe",
 6
             "size": "4134122"
 7
           },
            "report_url": "https://analysis.carbonblack.com/report/g",
            "results": {
 8
              "analysis_summary": "bad",
             "detonation": {
 9
               "data": [
                   "te": {
10
                    "CPULevelDetection": "false",
                    "SuspiciousActivities": {
                       "SuspiciousEvent":
11
                        "SuspiciousActivity": [
                          {
12
                            "Path": "[low confidence] Behaves like a known malware ( Generic.MALWARE.x )"
                         }
                        ],
13
                        "Type": "SuspiciousActivityEvent"
                      }
14
                    },
                     System": {
                      "OsInfo": "Microsoft Windows 7 32 bit, Office 2003, Office 2007, Adobe Acrobat Reader 9.0, Adobe Fl
15
                      "OsRev": "53",
                      "OsUID": "7e6fe36e-889e-4c25-8704-56378f0830df",
                      "Osname": "Windows 7"
16
                    },
              reportDate": "Tue Sep 27 10:39:09 2016"
17
           },
            "score": 100,
           "score factors": {
18
             "detonation": {
               "score": 8,
19
               "verdict": "suspicious"
             },
              "strings_analysis": {},
20
             "subfile": {
               "score": 100,
21
               "verdict": "bad"
             Ъ.
              'yara": {
22
               "score": 100,
               "verdict": "bad"
23
             }
           },
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                                                           29
                                                                             CASE NO.
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```

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	"yara": {
1	<pre>"data": [{</pre>
2	"matches": [{
3	"meta": { "confidence": 8, "description": "Detects Sauron/Strider/Remsec based on rich trash headers",
4	"severity": 10 }, "namespace": "production.yar",
5	"rule": "sauron_strider_trash" }
6 7	See Ex. M (https://developer.carbonblack.com/reference/collective-defense-cloud/1/inspection-api/)
,	(identifying YARA rule hits and "detonation" analysis).
8 9	84. As shown below, Carbon Black's YARA rules schema includes information about the
9 10	YARA rule hits and descriptions, which can be used to detect suspicious operations.
11	Yara
12	Schema
12	• (object)
14	 data (array): Yara data results (abiast)
15	 (object) matches (array): List of yara rules that matched on this binary
16	 (object) metal (object): Metadata about Yara rule that fired
17	 condidence (integer: int32): Confidence factor in Yara rule
18	 description (string): Description of Yara rule severity (integer: int32)
19	 rule (string): Name of Yara rule
20	 status (string): Status of Yara analysis
20	<i>See</i> Ex. M (<u>https://developer.carbonblack.com/reference/collective-defense-cloud/1/inspection-api/</u>) (showing YARA schema).
22	
23	85. As shown below, Carbon Black's StringsAnalysis schema includes information about
24	the string hits and descriptions, which can be used to detect suspicious operations.
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1	s	StringsAnalysis	
2	s	chema	
3		• (object)	
4		 data (array): generic object wrapper (object) 	
5		 ascii_strings (string): ascii strings 	
6		 unicode_strings (string): unicode strings status (string): Status of Strings Analysis 	
7		 status (string): Status of StringsAnalysis 	
8	See Ex. M (<u>https://de</u> (showing StringAnal	veloper.carbonblack.com/reference/collective-defense-cloud/1/inspection-api/) ysis schema).	
9 10		own below, Carbon Black's Detonation schema includes information about the	
11	detonation, which can Detonation	n be used to detect suspicious operations.	
12	Schema		
13	 (object) data (array): List of data sections 		
14	• (object)		
15	 System (object) OsInfo (string): Description of OS 		
16		OsRev (string): OS Rev of Sandbox environment OsUID (string): unique identifier for Sandbox environment	
17	 Osname (string): Name of OS (e.g. Windows 8.1) Activities (object): Set of activities observed during execution on the sandbox 		
18	 Command (array): list of Commands performed during execution (object) 		
19	 Action (string): Name of action performed. e.g. QueryKey, Read, CommandName (string: RegistryEvent, FileSystemEvent, NetworkEvent, SuspiciousActivityEvent, 		
	ProcessEvent, NetworkHTTPEvent): Type of command performed. e.g. RegistryEvent,		
20	FileSystemEvent SuspiciousActivities (object): Set of behaviours observed during execution on the sandbox SurprigiousEvent (object)		
21	 SuspiciousEvent (object) Type (string): type of suspicious activity observed during execution 		
22	 SuspiciousActivity (array): list of observed behaviours during execution on sandbox (object) 		
23	 Path (string) av (object): Antivirus Scanner Information 		
24	 signature_name (string): Malware signature name status (string): Status of Detonation 		
25			
26		veloper.carbonblack.com/reference/collective-defense-cloud/1/inspection-api/) schema stored in a security profile).	
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		31 PATENT INFRINGEMENT CASE NO.	
		FATENT INFRINGEVIENT CASE NO.	

87. As shown below, Carbon Black's ScoreFactors and Report schemas includes

2 || information about the downloadable, including scores related to a downloadable's suspiciousness.

3	ScoreFactors		
4	Schema		
5 6 7 8 9 10	 (object) detonation (object): Detonation score information score (integer: int32): Score of detonation verdict (string: good, bad, suspicious, unknown): Enum of verdict from detonation yara (object): Yara score information score (integer: int32): Score of Yara verdict (string: good, bad, suspicious, unknown): Enum of verdict from Yara verdict (string: good, bad, suspicious, unknown): Enum of verdict from Yara cb_reputation (object) score (integer: int32): Score of CB reputation prevalence (object): Prevalence score (integer: int32): Factor for community prevalence 		
11 12	<i>See</i> Ex. M (<u>https://developer.carbonblack.com/reference/collective-defense-cloud/1/inspection-api/</u>) (showing Detonation schema stored in a security profile).		
13 14	88. Defendant's infringement of the '494 Patent has injured Finjan in an amount to be		
15 16	 proven at trial. 89. Defendant has been specifically long-aware of Finjan's patents, including the '494 		
 17 18 19 20 21 22 23 24 25 26 27 	 faith, deliberate, wrongful, and flagrant by its continued infringing activity despite possessing specific knowledge of its infringement of the '494 Patent. Defendant has had specific knowledge of its infringement of the '494 Patent since at least in or about December 2015, when Finjan specifically identified and described the following products made, used, or sold by Defendant as infringing the '494 Patent: Bit9 + Carbon Black Solution, the Bit9 Security Platform, and the Bit9 + Carbon Black Threat Intelligence Cloud. Finjan also provided Defendant with a claim chart on or about February 2016 specifically describing how the '494 Patent reads on its products. 90. On information and belief, despite its knowledge of the '494 Patent and its knowledge of its own infringement of that patent since at least in or about December 2015, Defendant made no effort to design its products or services around the '494 Patent in order to avoid infringement. 		
28	32 COMPLAINT FOR PATENT INFRINGEMENT CASE NO.		

Instead, on information and belief, Defendant incorporated infringing technology into additional
 products, such as those identified in this Complaint. All of these actions demonstrate Defendant's
 blatant and egregious disregard for, and willful infringement of, Finjan's patent rights.

91. Despite its knowledge of the Asserted Patents and being provided representative claim
charts of the Asserted Patents, Defendant has sold and continues to sell the Accused Products and
Services in complete and reckless disregard of Finjan's patent rights. As such, Defendant has acted
recklessly and continues to willfully, wantonly, and deliberately engage in acts of infringement of the
'494 Patent, justifying an award to Finjan of increased damages under 35 U.S.C. § 284, and
attorneys' fees and costs incurred under 35 U.S.C. § 285.

COUNT VI

(Indirect Infringement of the '494 Patent pursuant to 35 U.S.C. § 271(b))

92. Finjan repeats, realleges, and incorporates by reference, as if fully set forth herein, the allegations of the preceding paragraphs, as set forth above.

1493. Defendant has induced infringement of at least Claims 3-5 and 7-9 of the '494 Patent15under 35 U.S.C. § 271(b).

94. In addition to directly infringing the '494 Patent, Defendant indirectly infringes the '494 Patent pursuant to 35 U.S.C. § 271(b) by instructing, directing and/or requiring others, including customers, purchasers, users and developers, to perform one or more of the steps of the method claims, either literally or under the doctrine of equivalents, of the '494 Patent, where all the steps of the method claims are performed by either Defendant, its customers, purchasers, users, and developers, or some combination thereof. Defendant knew or was willfully blind to the fact that it was inducing others, including customers, purchasers, users, and developers, to infringe by practicing, either themselves or in conjunction with Defendant, one or more method claims of the '494 Patent, including Claims 3-5 and 7-9.

95. Defendant knowingly and actively aided and abetted the direct infringement of the '494 Patent by instructing and encouraging its customers, purchasers, users, and developers to use the '494 Accused Products. Such instruction and encouragement includes, but is not limited to, advising

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third parties to use the '494 Accused Products in an infringing manner, providing a mechanism
through which third parties may infringe the '494 Patent, advertising and promoting the use of the
'494 Accused Products in an infringing manner, and distributing guidelines and instructions to third
parties on how to use the '494 Accused Products in an infringing manner.

5 96. Defendant updates and maintains an HTTP site with Defendant's administration
6 guides, user guides, operating instructions, and training and certifications which cover in depth
7 aspects of operating the Accused Products. *See, e.g.*, Ex. Q

8 (<u>https://www.carbonblack.com/resources/support/</u>).

<u>COUNT VII</u> (Direct Infringement of the '154 Patent pursuant to 35 U.S.C. § 271(a))

97. Finjan repeats, realleges, and incorporates by reference, as if fully set forth herein, the allegations of the preceding paragraphs, as set forth above.

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98. Defendant has infringed and continues to infringe Claims 1-12 of the '305 Patent in violation of 35 U.S.C. § 271(a).

99. Defendant's infringement is based upon literal infringement or, in the alternative, infringement under the doctrine of equivalents.

100. Defendant acts of making, using, importing, selling, and/or offering for sale infringing products and services have been without the permission, consent, authorization or license of Finjan.

101. Defendant's infringement includes, but is not limited to, the manufacture, use, sale, importation and/or offer for sale of Defendant's products and services, including the Cb Predictive Security Cloud, Cb Response, Cb Defense, Cb Defense for VMware, and Cb Protection (formerly known as Carbon Black Enterprise Protection/Bit9 Security Platform/Bit9 Party Suite) (collectively, the "154 Accused Products").

102. The '154 Accused Products embody the patented invention of the '154 Patent and infringe the '154 Patent because they utilize and/or incorporate a system for protecting a computer from dynamically generated malicious content, comprising: a content processor (i) for processing content received over a network, the content including a call to a first function, and the call including

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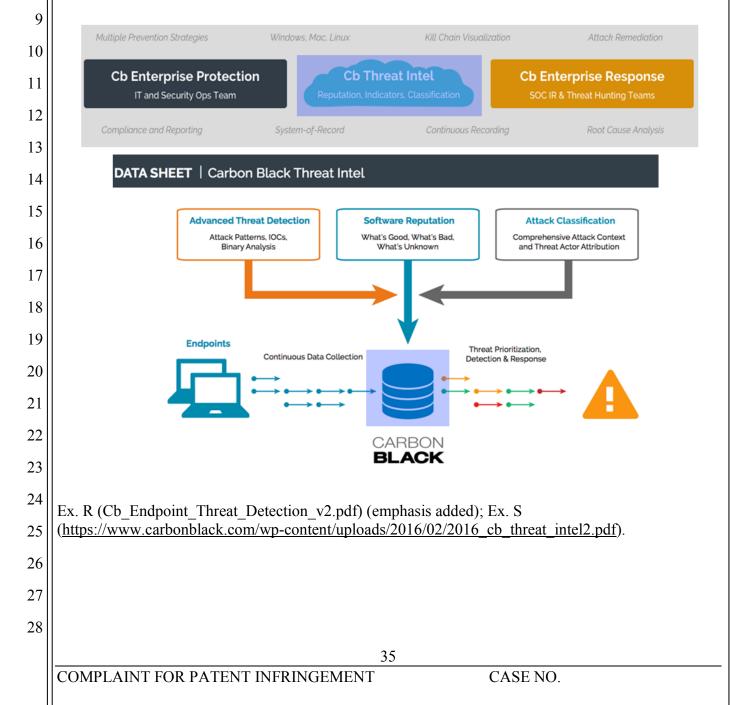
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an input, and (ii) for invoking a second function with the input, only if a security computer indicates
that such invocation is safe; a transmitter for transmitting the input to the security computer for
inspection, when the first function is invoked; and a receiver for receiving an indication from the
security computer whether it is safe to invoke the second function with the input.

5 103. For example, as shown below, the '154 Accused Products act as a content processor to
6 process content or data received over the network, where that content includes a call to a first function
7 that contains an input. This input is sent from the lightweight agent on the endpoint to a security
8 computer that is located on premise or to the security cloud for inspection.



1 104. The '154 Accused Products can invoke second functions only if they are determined to
 2 be safe after receiving an indication from the on-premise security computer or the cloud security
 3 computer.

Examples of what ATIs can detect:

+ A process attempting to harvest cached passwords

+ A PDF file spawning an executable

+ Processes injecting into other processes executing out of suspicious locations

Ex. U (data-breach-detection-what-you-need-to-know-pdf) (emphasis added).

105. As a result of Defendant's unlawful activities, Finjan has suffered and will continue to suffer irreparable harm for which there is no adequate remedy at law. Finjan and Defendant both compete in the security software space, as described for example in paragraphs 7-8 and 22-34 above. And Finjan is actively engaged in licensing its patent portfolio, as described for example in paragraphs 7-8 and 22-34 above. Defendant's continued infringement of the Asserted Patents causes harm to Finjan in the form of price erosion, loss of goodwill, damage to reputation, loss of business opportunities, inadequacy of money damages, and direct and indirect competition. Monetary damages are insufficient to compensate Finjan for these harms. Accordingly, Finjan is entitled to and seeks a preliminary and/or permanent injunctive relief.

106. Defendant's infringement of the '154 Patent has injured and continues to injure Finjan in an amount to be proven at trial.

107. Defendant has been specifically long-aware of Finjan's patents, including the '154 Patent, and has acted recklessly and egregiously with conduct that is willful, wanton, malicious, badfaith, deliberate, wrongful, and flagrant by its continued infringing activity despite possessing specific knowledge of its infringement of the '154 Patent. Defendant has had specific knowledge of its infringement of the '494 Patent since at least on or about December 2015, when Finjan specifically identified and described the following products made, used, or sold by Defendant as infringing the

'154 Patent: Bit9 + Carbon Black Solution, the Bit9 Security Platform, and the Bit9 + Carbon Black
 Threat Intelligence Cloud. Finjan also gave Defendant a claim chart in or about February 2016
 specifically describing how the '154 Patent reads on its products.

4 108. On information and belief, despite its knowledge of the '154 Patent and its knowledge
5 of its own infringement of that patent since at least in or about December 2015, Defendant made no
6 effort to design its products or services around the '154 Patent in order to avoid infringement.
7 Instead, on information and belief, Defendant incorporated infringing technology into additional
8 products, such as those identified in this Complaint. All of these actions demonstrate Defendant's
9 blatant and egregious disregard for, and willful infringement of, Finjan's patent rights.

10 109. Despite its knowledge of the Asserted Patents and being provided representative claim
11 charts of the Asserted Patents, Defendant has sold and continues to sell the Accused Products and
12 Services in complete and reckless disregard of Finjan's patent rights. As such, Defendant has acted
13 recklessly and continues to willfully, wantonly, and deliberately engage in acts of infringement of the
14 '154 Patent, justifying an award to Finjan of increased damages under 35 U.S.C. § 284, and
15 attorneys' fees and costs incurred under 35 U.S.C. § 285.

PRAYER FOR RELIEF

WHEREFORE, Finjan prays for judgment and relief as follows:

18 A. An entry of judgment holding that Carbon Black has infringed the '780 Patent, the
19 '844 Patent, the '494 Patent, and the '154 Patent, and is continuing to infringe the '154 Patent; and
20 has induced infringement of the '780 Patent, the '844 Patent, and the '494 Patent;

B. A preliminary and permanent injunction against Carbon Black and its officers,
employees, agents, servants, attorneys, instrumentalities, and/or those in privity with them, from
continuing to infringe the '154 Patent, and for all further and proper injunctive relief pursuant to 35
U.S.C. § 283;

C. An award to Finjan of such past damages as it shall prove at trial against Carbon Black
that are adequate to fully compensate Finjan for Carbon Black's infringement of the '780 Patent, the
'844 Patent, the '494 Patent, and the '154 Patent, said damages to be no less than a reasonable

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1	royalty;		
2	D.	A determination that Carbon Bla	ck's infringement has been willful, wanton, and
3	deliberate and	I that the damages against it be inc	reased up to treble on this basis or for any other basis
4	in accordance	with the law;	
5	E.	A finding that this case is "excep	tional" and an award to Finjan of its costs and
6	reasonable att	orneys' fees, as provided by 35 U	.S.C. § 285;
7	F.	An accounting of all infringing s	ales and revenues, together with post judgment
8	interest and p	rejudgment interest from the first	date of infringement of the '780 Patent, the '844
9	Patent, the '49	94 Patent, and the '154 Patent; and	l
10	G.	Such further and other relief as the	ne Court may deem proper.
11			Respectfully submitted,
12	Dated: March	D 21 2018 B	y: /s/ Paul J. Andre
13		121, 2010	Paul J. Andre (State Bar No. 196585)
14			Lisa Kobialka (State Bar No. 191404) James Hannah (State Bar No. 237978)
15			Austin Manes (State Bar No. 284065) KRAMER LEVIN NAFTALIS
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1		R JURY TRIAL
2	Finjan demands a jury trial on all issues so	triable.
3		Respectfully submitted,
4		/s/ Paul J. Andre Paul J. Andre (State Bar No. 196585)
5		Lisa Kobialka (State Bar No. 191404) James Hannah (State Bar No. 237978)
6 7		Austin Manes (State Bar No. 284065) KRAMER LEVIN NAFTALIS
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