

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6591460

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	RELEASE OF SECURITY INTEREST IN PATENTS AT R/F 053476/0681

**CONVEYING PARTY DATA**

Name	Execution Date
OWL ROCK CAPITAL CORPORATION, AS COLLATERAL AGENT	03/08/2021

**RECEIVING PARTY DATA**

<b>Name:</b>	SOPHOS LIMITED
<b>Street Address:</b>	THE PENTAGON ABINGDON SCIENCE PARK
<b>City:</b>	ABINGDON, OXFORDSHIRE
<b>State/Country:</b>	UNITED KINGDOM
<b>Postal Code:</b>	OX14 3YP

**PROPERTY NUMBERS Total: 201**

Property Type	Number
Application Number:	10219091
Application Number:	10219096
Application Number:	10219236
Application Number:	11428203
Application Number:	11523882
Application Number:	11524414
Application Number:	11689930
Application Number:	11690477
Application Number:	11694109
Application Number:	11855107
Application Number:	11915607
Application Number:	12035638
Application Number:	12053112
Application Number:	12054086
Application Number:	12055586
Application Number:	12059892
Application Number:	12132979
Application Number:	12187794
Application Number:	12239867
Application Number:	12269350

PATENT

<b>Property Type</b>	<b>Number</b>
Application Number:	12369030
Application Number:	12369096
Application Number:	12369223
Application Number:	12405451
Application Number:	12405538
Application Number:	12405642
Application Number:	12409811
Application Number:	12411504
Application Number:	12412415
Application Number:	12412690
Application Number:	12413823
Application Number:	12494435
Application Number:	12506749
Application Number:	12552395
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Application Number:	12751087
Application Number:	12880444
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Application Number:	13460913
Application Number:	13527726
Application Number:	13548350
Application Number:	13658977
Application Number:	14107752
Application Number:	14168321
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Application Number:	14263966
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Application Number:	14264148
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Application Number:	14485771
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Application Number:	14485782
Application Number:	14485790
Application Number:	14569944

<b>Property Type</b>	<b>Number</b>
Application Number:	14570188
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<b>Property Type</b>	<b>Number</b>
Application Number:	15527783
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Application Number:	15903924
Application Number:	15906383

<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15907807
<b>Application Number:</b>	15924449
<b>Application Number:</b>	15924460
<b>Application Number:</b>	15943014
<b>Application Number:</b>	15945166
<b>Application Number:</b>	15945226
<b>Application Number:</b>	15945291
<b>Application Number:</b>	15945319
<b>Application Number:</b>	15945346
<b>Application Number:</b>	15946026
<b>Application Number:</b>	15963718
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<b>Application Number:</b>	15969713
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<b>Application Number:</b>	16143864
<b>Application Number:</b>	16146261
<b>Application Number:</b>	16158844
<b>Application Number:</b>	16165274
<b>Application Number:</b>	16165417
<b>Application Number:</b>	16219637
<b>Application Number:</b>	16224218
<b>Application Number:</b>	16224258
<b>Application Number:</b>	16224291
<b>Application Number:</b>	16224319

Property Type	Number
Application Number:	16224352
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Application Number:	16246891
Application Number:	16248417
Application Number:	16249492
Application Number:	16257749
Application Number:	16310251
Application Number:	16381928
Application Number:	16383315
Application Number:	16383335
Application Number:	16383407
Application Number:	16383421
Application Number:	16383439
Application Number:	16401565
Application Number:	16406318
Application Number:	16412687
Application Number:	16419491
Application Number:	16445067
Application Number:	16523273
Application Number:	16561199
Application Number:	16569606
Application Number:	16569609
Application Number:	16575913
Application Number:	16589489
Application Number:	16612752
Application Number:	16678135
Application Number:	16691526
Application Number:	16692599

**CORRESPONDENCE DATA**

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<b>SIGNATURE:</b>	/s/ Jessica Bajada-Silva
<b>DATE SIGNED:</b>	03/09/2021
<b>Total Attachments: 15</b> source=Surf - 2L Patent Release - RF 053124-0380 [Executed]#page1.tif source=Surf - 2L Patent Release - RF 053124-0380 [Executed]#page2.tif source=Surf - 2L Patent Release - RF 053124-0380 [Executed]#page3.tif source=Surf - 2L Patent Release - RF 053124-0380 [Executed]#page4.tif source=Surf - 2L Patent Release - RF 053124-0380 [Executed]#page5.tif source=Surf - 2L Patent Release - RF 053124-0380 [Executed]#page6.tif source=Surf - 2L Patent Release - RF 053124-0380 [Executed]#page7.tif source=Surf - 2L Patent Release - RF 053124-0380 [Executed]#page8.tif source=Surf - 2L Patent Release - RF 053124-0380 [Executed]#page9.tif source=Surf - 2L Patent Release - RF 053124-0380 [Executed]#page10.tif source=Surf - 2L Patent Release - RF 053124-0380 [Executed]#page11.tif source=Surf - 2L Patent Release - RF 053124-0380 [Executed]#page12.tif source=Surf - 2L Patent Release - RF 053124-0380 [Executed]#page13.tif source=Surf - 2L Patent Release - RF 053124-0380 [Executed]#page14.tif source=Surf - 2L Patent Release - RF 053124-0380 [Executed]#page15.tif	

## RELEASE OF SECURITY INTEREST IN PATENTS

This RELEASE OF SECURITY INTEREST IN PATENTS (this “Release”), dated as of March 8, 2021 (the “Effective Date”), is made by OWL ROCK CAPITAL CORPORATION, as collateral agent for the Secured Parties (in such capacity, the “Agent”), in favor of INVINCEA, INC., REFLEXION NETWORKS, INC., and SOPHOS LIMITED (each a “Grantor,” and together the “Grantors”). All capitalized terms used but not otherwise defined herein shall have the respective meanings ascribed to them in the Patent Security Agreement (whether defined therein or by reference to another agreement).

WHEREAS, pursuant to that certain Second Lien Security Agreement by and among the Grantors, the Agent, and certain other parties, dated as of March 5, 2020 (as may have been amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “Security Agreement”), the Grantors executed and delivered a Patent Security Agreement, dated as of July 3, 2020 (the “Patent Security Agreement”), which was recorded in the United States Patent and Trademark Office (“USPTO”) on July 6, 2020 at Reel/Frame 053124/0380 (with respect to Invincea, Inc.), at Reel/Frame 053124/0403 (with respect to Reflexion Networks, Inc.), and at Reel/Frame 053476/0681 (with respect to Sophos Limited);

WHEREAS, pursuant to the Security Agreement and the Patent Security Agreement, each Grantor granted to the Agent for the ratable benefit of the Secured Parties a security interest (the “Security Interest”) in and to all of such Grantor’s right, title and interest in and to the following, except for any Excluded Property, whether then existing or thereafter arising or acquired from time to time: (i) all Patents and Patent applications, including those set forth in Schedule A hereto; (ii) all reissues, divisionals, continuations, continuations-in-part, extensions, renewals and reexaminations of any of the foregoing; (iii) all rights in the foregoing provided by international treaties or conventions, all rights corresponding thereto throughout the world and all other rights of any kind whatsoever of such Grantor accruing thereunder or pertaining thereto; (iv) any and all claims for damages and injunctive relief for past, present and future infringement, dilution, misappropriation, violation, misuse or breach with respect to any of the foregoing, and the right, but not the obligation, to sue for and collect, or otherwise recover, such damages and injunctive relief; and (v) any and all proceeds of, collateral for, income, royalties and other payments then or thereafter due and payable with respect to, and supporting obligations relating to, any and all of the Collateral or arising from any of the foregoing (collectively, the “Patent Collateral”); and

WHEREAS, the Agent and the Grantors acknowledge that the requirements for releasing the Security Interest in the Patent Collateral have been met.

NOW, THEREFORE, in consideration of the foregoing and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Agent, hereby (i) terminates and cancels the Patent Security Agreement, (ii) releases, discharges, terminates and cancels the Security Interest in and to the Patent Collateral, and (iii) re-assigns to each Grantor any right, title or interest it may have in the Patent Collateral of such Grantor, in each case without recourse to the Agent and without representation or warranty of any kind.

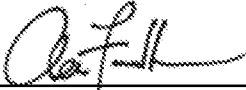
Each Grantor, or any successor to such Grantor (including any person or entity hereafter having any right, title or interest in or to the Patent Collateral of such Grantor), is hereby authorized to record this Release in the USPTO.

[Signature Page Follows]



IN WITNESS WHEREOF, the Agent has caused this Release to be executed and delivered by its duly authorized officer as of the Effective Date.

OWL ROCK CAPITAL CORPORATION, as  
collateral agent

By:   
Name: Adam Forchheimer  
Title: Authorized Signatory

SCHEDULE A

<u>Record Owner</u>	<u>Title</u>	<u>Application Number</u>	<u>Filing Date</u>	<u>Patent Number</u>	<u>Issue Date</u>
Reflexion Networks, Inc.	SYSTEM AND METHOD FOR CONTROLLING ACCESS TO AN ELECTRONIC MESSAGE RECIPIENT	10/523,760	8/11/2005	7,870,260	1/11/2011
Reflexion Networks, Inc.	SYSTEM AND METHOD FOR CONTROLLING ACCESS TO AN ELECTRONIC MESSAGE RECIPIENT	12/809,351	10/11/2010	8,239,471 <sup>1</sup>	8/7/2012
Reflexion Networks, Inc.	SYSTEM AND METHOD FOR CONTROLLING ACCESS TO AN ELECTRONIC MESSAGE RECIPIENT	13/540,703	7/3/2012	8,850,555 <sup>2</sup>	9/30/2014
Reflexion Networks, Inc.	ELECTRONIC MESSAGE ADDRESS ALIASING	14/866,968	9/27/2015	10,462,192	10/29/2019
Reflexion Networks, Inc.	ELECTRONIC MESSAGE IDENTIFIER ALIASING	16/433,788	8/6/2018		
Reflexion Networks, Inc.	SYSTEM AND METHOD FOR CONTROLLING ACCESS TO AN ELECTRONIC MESSAGE RECIPIENT	11/137,631	5/25/2005	7,917,961	3/29/2011
Reflexion Networks, Inc.	SYSTEM AND METHOD FOR CONTROLLING ACCESS TO AN ELECTRONIC MESSAGE RECIPIENT	13/034,218	2/24/2011	8,484,749	7/9/2013
Inviscea, Inc.	METHODS AND APPARATUS FOR CONTROL AND DETECTION OF MALICIOUS CONTENT USING A SANDBOX ENVIRONMENT	13/090,452	11/30/2012	9,081,959	7/14/2015
Inviscea, Inc.	METHODS AND APPARATUS FOR CONTROL AND DETECTION OF MALICIOUS CONTENT USING A SANDBOX ENVIRONMENT	14/797,847	7/13/2015	9,519,778	12/13/2016
Inviscea, Inc.	METHODS AND APPARATUS FOR CONTROL AND DETECTION OF MALICIOUS CONTENT USING A SANDBOX ENVIRONMENT	15/359,064	11/23/2016	10,043,001	8/7/2018
Inviscea, Inc.	METHODS AND APPARATUS FOR CONTROL AND DETECTION OF MALICIOUS CONTENT USING A SANDBOX ENVIRONMENT	16/618,730	6/26/2018	10,467,406	11/5/2019
Inviscea, Inc.	METHODS AND APPARATUS FOR DETECTION OF FUNCTIONALITY	14/212,659	3/14/2014	10,849,970	5/12/2020

Record Owner	Title	Applicant Number	Filing Date	Patent Number	Issue Date
Invincea, Inc.	METHODS AND DEVICES FOR DETECTION OF MALWARE	14/718,290	5/19/2015	9,940,459	4/10/2018
Invincea, Inc.	METHODS AND DEVICES FOR DETECTION OF MALWARE	15/907,817	1/28/2018	10,474,818	11/13/2019
Invincea, Inc.	METHODS AND DEVICES FOR SECURE AUTHENTICATION TO A COMPUTE DEVICE	14/717,422	5/20/2015	9,692,879	6/27/2017
Invincea, Inc.	METHODS AND DEVICES FOR SECURE AUTHENTICATION TO A COMPUTE DEVICE	15/631,808	6/26/2017	10,306,052	5/28/2019
Invincea, Inc.	METHODS AND APPARATUS FOR MACHINE LEARNING BASED MALWARE DETECTION	15/028,728	8/4/2016	9,690,938	6/27/2017
Invincea, Inc.	METHODS AND APPARATUS FOR MACHINE LEARNING BASED MALWARE DETECTION	15/616,391	6/7/2017	9,910,926	3/6/2018
Invincea, Inc.	METHODS AND APPARATUS FOR MACHINE LEARNING BASED MALWARE DETECTION	15/877,676	1/23/2018	10,363,873	5/28/2019
Invincea, Inc.	METHODS AND APPARATUS FOR DETECTING MALWARE SAMPLES WITH SIMILAR IMAGE SETS	15/343,844	11/4/2016	9,672,358	6/6/2017
Invincea, Inc.	METHODS AND APPARATUS FOR DETECTING MALWARE SAMPLES WITH SIMILAR IMAGE SETS	15/614,060	6/5/2017	9,852,297	12/26/2017
Invincea, Inc.	METHODS AND APPARATUS FOR DETECTING MALWARE SAMPLES WITH SIMILAR IMAGE SETS	15/843,231	12/18/2017	10,592,667	3/17/2020
Invincea, Inc.	METHODS AND APPARATUS FOR EFFICIENTLY PROCESSING A GRAPH DATA STRUCTURE	15/179,629	6/10/2016	10,565,749	2/18/2020
Invincea, Inc.	METHODS AND APPARATUS FOR DETECTING WHETHER A STRING OF CHARACTERS REPRESENTS MALICIOUS ACTIVITY USING MACHINE LEARNING	15/630,495	6/22/2017	10,318,735	6/11/2019
Invincea, Inc.	METHODS AND APPARATUS FOR DETECTING WHETHER A STRING OF CHARACTERS REPRESENTS MALICIOUS ACTIVITY USING MACHINE LEARNING	16/425,115	5/29/2019		
Invincea, Inc.	METHODS AND APPARATUS FOR DETECTING AND IDENTIFYING MALWARE BY MAPPING FEATURE DATA INTO A SEMANTIC SPACE	15/666,858	8/2/2017		
Sophos Limited	DEVICE PLUG-IN SYSTEM FOR CONFIGURING NETWORK DEVICE OVER A PUBLIC NETWORK	10/219,091	8/13/2002	7,284,042	10/16/2007
Sophos Limited	SELECTION AND STORAGE OF POLICIES IN NETWORK MANAGEMENT	10/219,096	8/13/2002	7,130,854	10/31/2006
Sophos Limited	SELECTION AND STORAGE OF POLICIES IN NETWORK MANAGEMENT	11/523,882	9/19/2006	7,840,589	11/23/2010

Record Owner	Title	Application Number	Filing Date	Patent Number	Issue Date
Sophos Limited	SELECTION AND STORAGE OF POLICIES IN NETWORK MANAGEMENT	11/524,414	9/19/2006	7,882,152	2/1/2011
Sophos Limited	IDENTITY AND POLICY-BASED NETWORK SECURITY AND MANAGEMENT SYSTEM AND METHOD	11/913,607	11/27/2007	8,984,620	3/17/2015
Sophos Limited	POLICY ENGINE FOR MODULAR GENERATION OF POLICY FOR A FLAT, PER-DEVICE DATABASE	10/219,236	8/13/2002	7,159,125	1/2/2007
Sophos Limited	METHODS AND APPARATUS FOR USING MACHINE LEARNING ON MULTIPLE FILE FRAGMENTS TO IDENTIFY MALWARE	15/727,035	10/6/2017	10,635,813	4/28/2020
Sophos Limited	SYSTEM AND METHOD FOR LOCATION-BASED ENDPOINT SECURITY	16/569,606	9/12/2019		
Sophos Limited	SERVER DRIFT MONITORING	15/681,561	8/21/2017	10,038,762	7/31/2018
Sophos Limited	KEY MANAGEMENT FOR COMPROMISED ENTERPRISE ENDPOINTS	15/669,591	11/23/2016	10,063,373	8/28/2018
Sophos Limited	FIREWALL TECHNIQUES FOR COLORED OBJECTS ON ENDPOINTS	14/485,782	9/14/2014	10,122,887	11/6/2018
Sophos Limited	USING REPUTATION TO AVOID FALSE MALWARE DETECTIONS	14/263,977	4/28/2014	10,122,753	11/6/2018
Sophos Limited	MITIGATION OF ANTI-SANDBOX MALWARE TECHNIQUES	14/929,851	11/2/2015	10,135,861	11/20/2018
Sophos Limited	VIRTUAL MACHINE SECURITY	15/942,955	2/12/2016	10,181,634	1/15/2019
Sophos Limited	USING INDICATIONS OF COMPROMISE FOR REPUTATION BASED NETWORK SECURITY	15/969,713	5/2/2018	10,225,286	3/5/2019
Sophos Limited	PERIMETER ENFORCEMENT OF ENCRYPTION RULES	15/008,684	4/14/2016	10,263,966	4/16/2019
Sophos Limited	HONEYPOT NETWORK SERVICES	15/010,783	1/29/2016	10,284,598	5/7/2019
Sophos Limited	POLICY MANAGEMENT	15/848,822	12/20/2017	10,333,989	6/25/2019
Sophos Limited	POLICY MANAGEMENT	15/849,083	12/20/2017	10,333,990	6/25/2019
Sophos Limited	PORTABLE ENCRYPTION FORMAT	15/089,524	4/14/2016		
Sophos Limited	PROTECTING SENSITIVE INFORMATION FROM A SECURE DATA STORE	15/241,915	8/19/2016	10,367,815	7/30/2019
Sophos Limited	THREAT DETECTION USING A TIME-BASED CACHE OF REPUTATION INFORMATION ON AN ENTERPRISE ENDPOINT	15/969,725	5/2/2018	10,382,459	8/13/2019
Sophos Limited	SERVER DRIFT MONITORING	16/019,686	6/26/2018	10,447,708	10/15/2019

<u>Record Owner</u>	<u>Title</u>	<u>Application Number</u>	<u>Filing Date</u>	<u>Patent Number</u>	<u>Issue Date</u>
Sophos Limited	PERIMETER ENCRYPTION	15/428,291	2/10/2017	10,454,903	10/22/2019
Sophos Limited	ENDPOINT MALWARE DETECTION USING AN EVENT GRAPH	15/924,460	3/19/2018	10,460,105	10/29/2019
Sophos Limited	KEY THROTTLING TO MITIGATE UNAUTHORIZED FILE ACCESS	15/179,447	6/10/2016	10,681,078	6/9/2020
Sophos Limited	METHOD AND SYSTEM FOR PROVIDING SOFTWARE UPDATES TO LOCAL MACHINES	15/965,851	2/23/2018	10,474,448	11/12/2019
Sophos Limited	EVALUATING INSTALLERS AND INSTALLER PAYLOADS	15/045,741	2/17/2016	10,476,894	11/12/2019
Sophos Limited	USE OF AN APPLICATION CONTROLLER TO MONITOR AND CONTROL SOFTWARE FILE AND APPLICATION ENVIRONMENTS	15/729,306	10/10/2017	10,515,211	12/24/2019
Sophos Limited	KEY MANAGEMENT FOR COMPROMISED ENTERPRISE ENDPOINTS	16/111,322	8/24/2018	10,516,531	12/24/2019
Sophos Limited	FORENSIC ANALYSIS OF COMPUTING ACTIVITY	15/946,026	4/5/2018	10,516,862	12/24/2019
Sophos Limited	BOOT SECURITY	15/133,223	4/20/2016	10,528,739	1/7/2020
Sophos Limited	A METHOD AND SYSTEM FOR NETWORK ACCESS CONTROL BASED ON TRAFFIC MONITORING AND VULNERABILITY DETECTION USING PROCESS RELATED INFORMATION	15/527,783	5/18/2017	10,630,698	4/21/2020
Sophos Limited	SYSTEMS AND METHODS FOR DYNAMIC VENDOR AND VENDOR OUTLET CLASSIFICATION	15/685,039	8/24/2017	10,643,259	5/5/2020
Sophos Limited	MITIGATION OF RETURN-ORIENTED PROGRAMMING ATTACKS	15/667,847	8/5/2017	10,650,141	5/12/2020
Sophos Limited	MITIGATION OF ANTI-SANDBOX MALWARE TECHNIQUES	15/906,383	2/27/2018	10,652,273	5/12/2020
Sophos Limited	COMBINED SECURITY AND QoS COORDINATION AMONG DEVICES	15/619,028	6/9/2017	10,667,130	5/26/2020
Sophos Limited	INTRUSION DETECTION USING A HEARTBEAT	15/963,924	2/23/2018	10,673,873	6/2/2020
Sophos Limited	LABELING COMPUTING OBJECTS FOR IMPROVED THREAT DETECTION	15/963,718	4/26/2018	10,673,902	6/2/2020
Sophos Limited	ENDPOINT MALWARE DETECTION USING AN EVENT GRAPH	15/924,449	3/19/2018	10,489,568	11/26/2019
Sophos Limited	THREAT INDEX BASED WLAN SECURITY AND QUALITY OF SERVICE	15/648,548	7/13/2017	10,524,136	12/31/2019
Sophos Limited	LABELING OBJECTS ON AN ENDPOINT FOR ENCRYPTION MANAGEMENT	15/970,846	5/3/2018	10,558,800	2/11/2020

<u>Record Owner</u>	<u>Title</u>	<u>Application Number</u>	<u>Filing Date</u>	<u>Patent Number</u>	<u>Issue Date</u>
Sophos Limited	CONTEXT-DEPENDENT TIMEOUT FOR REMOTE SECURITY SERVICES	15/970,814	5/3/2018	10,594,717	3/17/2020
Sophos Limited	EMULATING TRANSPARENT FILE ENCRYPTION	15/782,280	10/12/2017	10,599,818	3/24/2020
Sophos Limited	USING REPUTATION TO AVOID FALSE MALWARE DETECTIONS	16/137,218	9/20/2018	10,616,269	4/7/2020
Sophos Limited	JUST-IN-TIME ENCRYPTION	15/889,542	4/14/2016	10,628,597	4/21/2020
Sophos Limited	METHOD AND SYSTEM FOR NETWORK ACCESS CONTROL BASED ON TRAFFIC MONITORING AND VULNERABILITY DETECTION USING PROCESS RELATED INFORMATION	15/927,783	12/18/2015	10,636,698	4/21/2020
Sophos Limited	PROCESS-LEVEL CONTROL OF ENCRYPTED CONTENT	15/842,863	2/13/2016	10,650,154	5/12/2020
Sophos Limited	BEHAVIORAL-BASED CONTROL OF ACCESS TO ENCRYPTED CONTENT BY A PROCESS	15/817,765	11/20/2017	10,657,277	5/19/2020
Sophos Limited	ELASTIC OUTBOUND GATEWAY	15/856,692	6/28/2017	10,686,738	6/16/2020
Sophos Limited	INTERMEDIATE ENCRYPTION FOR EXPOSED CONTENT	15/958,730	4/14/2016	10,686,827	6/16/2020
Sophos Limited	BEHAVIORAL-BASED CONTROL OF ACCESS TO ENCRYPTED CONTENT BY A PROCESS	16/248,417	1/15/2019	10,691,824	6/23/2020
Sophos Limited	METHODS AND APPARATUS FOR DETECTION OF MALICIOUS DOCUMENTS USING MACHINE LEARNING	16/257,749	1/25/2019		
Sophos Limited	METHODS AND APPARATUS FOR IDENTIFYING AN IMPACT OF A PORTION OF A FILE ON MACHINE LEARNING-CLASSIFICATION OF MALICIOUS CONTENT	15/884,542	1/31/2018		
Sophos Limited	METHODS AND APPARATUS FOR IDENTIFYING THE SHARED IMPORTANCE OF MULTIPLE NODES WITHIN A MACHINE LEARNING MODEL FOR MULTIPLE TASKS	15/987,807	2/28/2018		
Sophos Limited	THREAT INDEX BASED WLAN SECURITY AND QUALITY OF SERVICE	16/891,526	11/21/2019		
Sophos Limited	SYSTEM AND METHOD FOR ROGUE ACCESS POINT DETECTION	16/568,608	8/13/2018		
Sophos Limited	DETECTING IoT SECURITY ATTACKS USING PHYSICAL COMMUNICATION LAYER CHARACTERISTICS	16/812,752	5/10/2018		
Sophos Limited	SYSTEM AND METHOD FOR IDENTIFYING UNAUTHORIZED ENDPOINTS	12/494,435	6/30/2009	8,479,267	7/2/2013

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Sophos Limited	HOST INTRUSION PREVENTION SYSTEM USING SOFTWARE AND USER BEHAVIOR ANALYSIS	12750,840	3/31/2010	8,607,340	12/10/2013
Sophos Limited	NETWORK STREAM SCANNING FACILITY	12738,867	9/29/2009	8,607,347	12/10/2013
Sophos Limited	METHOD AND SYSTEM FOR DETECTING RESTRICTED CONTENT ASSOCIATED WITH RETRIEVED CONTENT	12655,586	3/26/2008	8,650,848	2/11/2014
Sophos Limited	SYSTEMS AND METHODS FOR ENFORCING POLICIES FOR PROXY WEBSITE DETECTION USING ADVERTISING ACCOUNT ID	12658,096	2/11/2009	8,695,091	4/8/2014
Sophos Limited	SECURITY ACCESS PROTECTION FOR USER DATA STORED IN A CLOUD COMPUTING FACILITY	13548,350	7/13/2012	8,711,833	4/29/2014
Sophos Limited	MULTI-PART INTERNAL-EXTERNAL PROCESS SYSTEM FOR PROVIDING VIRTUALIZATION SECURITY PROTECTION	13527,726	6/20/2012	8,732,791	5/20/2014
Sophos Limited	BEHAVIORAL-BASED HOST INTRUSION PREVENTION SYSTEM	12586,749	7/21/2009	8,776,218	7/8/2014
Sophos Limited	REMEDIAL ACTION AGAINST MALICIOUS CODE AT A CLIENT FACILITY	11684,109	3/30/2007	8,782,786	7/15/2014
Sophos Limited	RUN-TIME ADDITIVE DISINFECTION OF MALWARE FUNCTIONS	12412,690	3/27/2009	8,826,424	9/2/2014
Sophos Limited	DYNAMIC SCANNING BASED ON COMPLIANCE METADATA	12411,504	3/26/2009	8,832,828	9/9/2014
Sophos Limited	COMPUTER SECURITY LOCK DOWN METHODS	12405,538	3/17/2009	8,815,789	4/23/2015
Sophos Limited	THREAT DETECTION THROUGH THE ACCUMULATED DETECTION OF THREAT CHARACTERISTICS	13658,977	10/24/2012	9,104,864	8/11/2015
Sophos Limited	REMEDIAL ACTION AGAINST MALICIOUS CODE AT A CLIENT FACILITY	14054,148	4/29/2014	9,112,899	8/18/2015
Sophos Limited	METHOD AND SYSTEM FOR DETECTING RESTRICTED CONTENT ASSOCIATED WITH RETRIEVED CONTENT	14168,321	1/30/2014	9,122,874	9/1/2015
Sophos Limited	MODIFIED FILE TRACKING ON VIRTUAL MACHINES	12409,811	3/24/2009	9,177,145	11/3/2015
Sophos Limited	BEHAVIORAL-BASED HOST INTRUSION PREVENTION SYSTEM	14324,508	7/7/2014	9,210,182	12/8/2015
Sophos Limited	METHOD AND SYSTEM FOR DETECTING RESTRICTED CONTENT ASSOCIATED WITH RETRIEVED CONTENT	14838,973	8/28/2015	9,386,032	7/5/2016
Sophos Limited	USE OF AN APPLICATION CONTROLLER TO MONITOR AND CONTROL SOFTWARE FILE AND APPLICATION ENVIRONMENTS	12751,887	3/31/2010	9,390,263	7/13/2016

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Sophos Limited	ADVANCED PERSISTENT THREAT DETECTION	14/263,955	4/28/2014	9,392,015	7/13/2016
Sophos Limited	THREAT DETECTION USING URL CACHE HITS	14/570,578	12/15/2014	9,418,989	8/16/2016
Sophos Limited	PROTECTING SENSITIVE INFORMATION FROM A SECURE DATA STORE	12/485,642	3/17/2009	9,426,179	8/23/2016
Sophos Limited	METHOD AND SYSTEM FOR PROVIDING SOFTWARE UPDATES TO LOCAL MACHINES	13/460,913	5/1/2012	9,489,193	11/9/2016
Sophos Limited	KEY MANAGEMENT FOR COMPROMISED ENTERPRISE ENDPPOINTS	14/485,774	9/14/2014	9,537,841	1/3/2017
Sophos Limited	DEPLOYING A SECURITY POLICY BASED ON DOMAIN NAMES	14/753,339	6/29/2015	9,571,452	2/14/2017
Sophos Limited	THREAT DETECTION USING ENDPOINT VARIANCE	14/570,188	12/15/2014	9,571,512	2/14/2017
Sophos Limited	METHOD AND SYSTEM FOR DETECTING RESTRICTED CONTENT ASSOCIATED WITH RETRIEVED CONTENT	15/176,291	6/8/2016	9,609,006	3/28/2017
Sophos Limited	CLOUD-BASED KEY MANAGEMENT	14/187,732	12/16/2013	9,621,524	4/11/2017
Sophos Limited	METHOD AND SYSTEM FOR DETECTING RESTRICTED CONTENT ASSOCIATED WITH RETRIEVED CONTENT	15/176,292	6/8/2016	9,654,486	5/16/2017
Sophos Limited	ADVANCED PERSISTENT THREAT DETECTION	15/206,988	7/11/2016	9,654,489	5/16/2017
Sophos Limited	SYSTEMS AND METHODS FOR ENFORCING POLICIES IN THE DISCOVERY OF ANONYMIZING PROXY COMMUNICATIONS	12/369,223	2/11/2009	9,734,125	8/15/2017
Sophos Limited	THREAT DETECTION USING REPUTATION DATA	15/235,722	8/12/2016	9,746,839	8/22/2017
Sophos Limited	SERVER DRIFT MONITORING	14/569,944	12/15/2014	9,774,613	9/26/2017
Sophos Limited	SYSTEMS AND METHODS FOR DYNAMIC VENDOR AND VENDOR OUTLET CLASSIFICATION	11/689,930	3/22/2007	9,779,433	10/3/2017
Sophos Limited	METHOD AND SYSTEM FOR DETECTING RESTRICTED CONTENT ASSOCIATED WITH RETRIEVED CONTENT	15/429,755	2/10/2017	9,800,599	10/24/2017
Sophos Limited	EMULATING TRANSPARENT FILE PROCESSING	14/682,186	4/9/2015	9,824,090	11/21/2017
Sophos Limited	USE OF AN APPLICATION CONTROLLER TO MONITOR AND CONTROL SOFTWARE FILE AND APPLICATION ENVIRONMENTS	15/194,847	6/28/2016	9,852,292	11/28/2017
Sophos Limited	POLICY MANAGEMENT	11/255,107	9/13/2007	9,860,274	1/2/2018



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Sophos Limited	INTRUSION DETECTION USING A HEARTBEAT	147253,966	4/28/2014	9,917,851	3/13/2018
Sophos Limited	MITIGATION OF ANTI-SANDBOX MALWARE TECHNIQUES	14929,910	11/2/2015	9,917,859	3/13/2018
Sophos Limited	ENDPOINT MALWARE DETECTION USING AN EVENT GRAPH	15484,830	4/11/2017	9,928,366	3/27/2018
Sophos Limited	METHOD AND SYSTEM FOR PROVIDING SOFTWARE UPDATES TO LOCAL MACHINES	15287,115	10/6/2016	9,934,025	4/3/2018
Sophos Limited	MITIGATION OF ANTI-SANDBOX MALWARE TECHNIQUES	14929,966	11/2/2015	9,942,263	4/10/2018
Sophos Limited	LABELING OBJECTS ON AN ENDPOINT FOR ENCRYPTION MANAGEMENT	14485,789	9/14/2014	9,965,627	5/8/2018
Sophos Limited	THREAT DETECTION USING A TIME-BASED CACHE OF REPUTATION INFORMATION ON AN ENTERPRISE ENDPOINT	14485,790	9/14/2014	9,967,264	5/8/2018
Sophos Limited	FORENSIC ANALYSIS OF COMPUTING ACTIVITY	15130,244	4/15/2016	9,967,267	5/8/2018
Sophos Limited	METHOD AND SYSTEM FOR DETECTING RESTRICTED CONTENT ASSOCIATED WITH RETRIEVED CONTENT	15691,875	8/31/2017	9,967,271	5/8/2018
Sophos Limited	LABELING COMPUTING OBJECTS FOR IMPROVED THREAT DETECTION	14485,759	9/14/2014	9,967,282	5/8/2018
Sophos Limited	NORMALIZED INDICATIONS OF COMPROMISE	14485,762	9/14/2014	9,967,283	5/8/2018
Sophos Limited	BEHAVIORAL-BASED CONTROL OF ACCESS TO ENCRYPTED CONTENT BY A PROCESS	15040,916	2/12/2016	9,984,348	5/29/2018
Sophos Limited	USING INDICATIONS OF COMPROMISE FOR REPUTATION BASED NETWORK SECURITY	14485,771	9/14/2014	9,982,228	6/5/2018
Sophos Limited	METHOD AND SYSTEMS FOR ANALYZING NETWORK CONTENT IN A PRE-FETCHING WEB PROXY	11690,477	3/23/2007	7,757,003	7/13/2010
Sophos Limited	HIERARCHICAL STATISTICAL MODEL OF INTERNET REPUTATION	12030,395	9/2/2009	7,890,627	3/15/2011
Sophos Limited	DYNAMIC INTERNET ADDRESS ASSIGNMENT BASED ON USER IDENTITY AND POLICY COMPLIANCE	12035,638	2/22/2008	7,966,650	6/21/2011
Sophos Limited	MANAGING USE OF PROXIES TO ACCESS RESTRICTED NETWORK LOCATIONS	12132,979	6/4/2008	8,090,852	1/3/2012
Sophos Limited	DYNAMIC INTERNET ADDRESS ASSIGNMENT BASED ON USER IDENTITY AND POLICY COMPLIANCE	13118,668	5/31/2011	8,146,137	3/27/2012
Sophos Limited	STRING SEARCHING FACILITY	12054,086	3/24/2008	8,170,363	5/1/2012

<u>Record Owner</u>	<u>Title</u>	<u>Application Number</u>	<u>Filing Date</u>	<u>Patent Number</u>	<u>Issue Date</u>
Sophos Limited	METHOD AND SYSTEM FOR DETECTING RESTRICTED CONTENT ASSOCIATED WITH RETRIEVED CONTENT	12/058,882	3/31/2008	8,220,050	7/10/2012
Sophos Limited	METHOD AND SYSTEM FOR CLASSIFICATION OF SOFTWARE USING CHARACTERISTICS AND COMBINATIONS OF SUCH CHARACTERISTICS	11/428,283	6/30/2006	8,261,344	9/4/2012
Sophos Limited	METHOD AND SYSTEM FOR NETWORK IDENTIFICATION VIA DNS	12/053,112	3/31/2008	8,266,672	9/11/2012
Sophos Limited	DISCOVERY OF THE USE OF ANONYMIZING PROXIES BY ANALYSIS OF HTTP COOKIES	12/412,415	3/27/2009	8,266,687	9/11/2012
Sophos Limited	COMPUTER FILE CONTROL THROUGH FILE TAGGING	12/187,794	2/7/2002	8,286,255	10/9/2012
Sophos Limited	METHODS FOR IDENTIFYING AN APPLICATION AND CONTROLLING ITS NETWORK UTILIZATION	12/269,350	11/12/2008	8,346,923	1/1/2013
Sophos Limited	METHOD AND SYSTEM FOR CLASSIFICATION OF SOFTWARE USING CHARACTERISTICS AND COMBINATIONS OF SUCH CHARACTERISTICS	12/413,823	3/30/2009	8,365,286	1/29/2013
Sophos Limited	METHOD AND SYSTEM FOR PREEMPTIVE SCANNING OF COMPUTER FILES	12/465,451	3/17/2009	8,392,379	3/5/2013
Sophos Limited	PROTECTED ACCESS CONTROL METHOD FOR SHARED COMPUTER RESOURCES	12/369,830	2/11/2009	8,392,972	3/5/2013
Sophos Limited	SYSTEM AND METHOD OF WHITELISTING PARENT VIRTUAL IMAGES	12/220,444	8/13/2010	8,407,204	3/26/2013
Sophos Limited	DATA BEHAVIORAL TRACKING	14/485,765	9/14/2014		
Sophos Limited	BOOT SECURITY	15/150,787	5/16/2016		
Sophos Limited	LABELING NETWORK FLOWS ACCORDING TO SOURCE APPLICATIONS	15/136,887	4/22/2016		
Sophos Limited	DETECTING ENDOENT COMPROMISE BASED ON NETWORK USAGE HISTORY	15/479,650	4/5/2017		
Sophos Limited	LOCAL PROXY DETECTION	15/479,889	4/5/2017		
Sophos Limited	DETECTING TRIGGERING EVENTS FOR DISTRIBUTED DENIAL OF SERVICE ATTACKS	15/479,476	4/5/2017		
Sophos Limited	SECURE LABELING OF NETWORK FLOWS	15/136,762	4/22/2016		
Sophos Limited	SYSTEMS AND METHODS FOR ENFORCING POLICIES IN THE DISCOVERY OF ANONYMIZING PROXY COMMUNICATIONS	15/659,872	7/26/2017		

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Sophos Limited	NETWORK SECURITY	15/179,547	6/16/2016		
Sophos Limited	COMBINED SECURITY AND QOS COORDINATION AMONG DEVICES	15/619,102	8/2/2017		
Sophos Limited	CLOUD STORAGE SCANNER	15/635,279	6/28/2017		
Sophos Limited	MOBILE DEVICE POLICY ENFORCEMENT	15/636,865	6/29/2017		
Sophos Limited	CONTENT LEAKAGE PROTECTION	15/635,668	6/28/2017		
Sophos Limited	IDENTIFYING AND REMEDIATING PHISHING SECURITY WEAKNESSES	15/666,894	8/2/2017		
Sophos Limited	METHOD AND SYSTEM FOR DETECTING RESTRICTED CONTENT ASSOCIATED WITH RETRIEVED CONTENT	15/943,014	4/2/2018		
Sophos Limited	NORMALIZED INDICATIONS OF COMPROMISE	15/969,550	5/2/2018		
Sophos Limited	FIREWALL TECHNIQUES FOR COLORED OBJECTS ON ENDPONTS	16/143,864	9/27/2018		
Sophos Limited	SECURE MANAGEMENT OF PROCESS PROPERTIES	15/795,852	10/27/2017		
Sophos Limited	SECURING INTERPROCESS COMMUNICATIONS	15/795,836	10/27/2017		
Sophos Limited	DASHBOARD FOR MANAGING ENTERPRISE NETWORK TRAFFIC	15/795,791	10/27/2017		
Sophos Limited	COMMUNICATING APPLICATION INFORMATION TO A FIREWALL	15/795,918	10/27/2017		
Sophos Limited	PROVIDING PROCESS DATA TO A DATA RECORDER	15/796,009	10/27/2017		
Sophos Limited	REALTIME EVENT DETECTION	16/032,814	7/11/2018		
Sophos Limited	MANAGING UNTYPED NETWORK TRAFFIC FLOWS	15/795,747	10/27/2017		
Sophos Limited	SECURE FIREWALL CONFIGURATIONS	15/795,976	10/27/2017		
Sophos Limited	MULTI-FACTOR AUTHENTICATION	16/224,398	12/18/2018		
Sophos Limited	APPLICATION FIREWALL	16/224,258	12/18/2018		
Sophos Limited	SERVER-CLIENT AUTHENTICATION WITH INTEGRATED STATUS UPDATE	16/224,218	12/18/2018		
Sophos Limited	DETECTING LATERAL MOVEMENT BY MALICIOUS APPLICATIONS	16/224,291	12/18/2018		

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Sophos Limited	SERVER-CLIENT AUTHENTICATION WITH INTEGRATED STATUS UPDATE	16/224,448	12/18/2018		
Sophos Limited	BAITING ENDPOINTS FOR IMPROVED DETECTION OF AUTHENTICATION ATTACKS	16/224,319	12/18/2018		
Sophos Limited	VIRTUAL MACHINE SECURITY	16/219,637	12/13/2018		
Sophos Limited	TRACKING USAGE OF CORPORATE CREDENTIALS	16/224,352	12/18/2018		
Sophos Limited	USING INDICATIONS OF COMPROMISE FOR REPUTATION BASED NETWORK SECURITY	16/249,493	1/16/2019		
Sophos Limited	ELECTRONIC MAIL SECURITY USING ROOT CAUSE ANALYSIS	15/849,153	12/20/2017		
Sophos Limited	ELECTRONIC MAIL SECURITY USING A HEARTBEAT	15/849,189	12/20/2017		
Sophos Limited	SANDBOX ENVIRONMENT FOR DOCUMENT PREVIEW AND ANALYSIS	16/310,251	6/29/2018		
Sophos Limited	MALWARE DETECTION USING MACHINE LEARNING	15/864,329	1/8/2018		
Sophos Limited	PORTAL FOR MANAGING ADMISSION OF UNRECOGNIZED DEVICES TO AN ENTERPRISE NETWORK	15/885,361	1/31/2018		
Sophos Limited	MANAGING CLAIMING OF UNRECOGNIZED DEVICES FOR ADMISSION TO AN ENTERPRISE NETWORK	15/885,391	1/31/2018		
Sophos Limited	HONEYPOT NETWORK SERVICES	16/381,828	4/11/2019		
Sophos Limited	MANAGING ADMISSION OF UNRECOGNIZED DEVICES ONTO AN ENTERPRISE NETWORK	15/885,347	1/31/2018		
Sophos Limited	PROCESSING NETWORK TRAFFIC BASED ON ASSESSED SECURITY WEAKNESSES	15/890,763	2/7/2018		
Sophos Limited	MANAGING VIRTUAL MACHINE SECURITY RESOURCES	16/023,378	6/29/2018		
Sophos Limited	PERIMETER ENFORCEMENT OF ENCRYPTION RULES	16/046,891	1/14/2019		
Sophos Limited	ENDPOINT MALWARE DETECTION USING AN EVENT GRAPH	16/461,565	5/2/2019		
Sophos Limited	EVENT-DRIVEN MALWARE DETECTION FOR MOBILE DEVICES	16/412,687	5/15/2019		
Sophos Limited	SECURE LABELING OF NETWORK FLOWS	16/406,318	5/8/2019		
Sophos Limited	POLICY MANAGEMENT	16/419,491	5/22/2019		

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Sophos Limited	METHOD AND SYSTEM FOR NETWORK ACCESS CONTROL BASED ON TRAFFIC MONITORING AND VULNERABILITY DETECTION USING PROCESS RELATED INFORMATION	16445,067	6/18/2019		
Sophos Limited	NETWORK DEVICE WITH TRANSPARENT HEARTBEAT PROCESSING	15845,319	4/4/2018		
Sophos Limited	DEVICE MANAGEMENT BASED ON GROUPS OF NETWORK ADAPTERS	15845,346	4/4/2018		
Sophos Limited	NETWORK DEVICE FOR SECURING ENDPOINTS IN A HETEROGENEOUS ENTERPRISE NETWORK	15845,291	4/4/2018		
Sophos Limited	SECURE ENDPOINT IN A HETEROGENEOUS ENTERPRISE NETWORK	15845,226	4/4/2018		
Sophos Limited	SECURING ENDPOINTS IN A HETEROGENEOUS ENTERPRISE NETWORK	15845,166	4/4/2018		
Sophos Limited	ENTERPRISE DOCUMENT CLASSIFICATION	16165,374	10/19/2018		
Sophos Limited	CHAIN OF CUSTODY FOR ENTERPRISE DOCUMENTS	16165,417	10/19/2018		
Sophos Limited	DYNAMIC MULTI-FACTOR AUTHENTICATION	16383,421	4/12/2019		
Sophos Limited	DYNAMIC POLICY BASED ON USER EXPERIENCE	16383,407	4/12/2019		
Sophos Limited	CENTRALIZED EVENT DETECTION	16383,335	4/12/2019		
Sophos Limited	THREAT RESPONSE USING EVENT VECTORS	16383,315	4/12/2019		
Sophos Limited	INTERFACE FOR NETWORK SECURITY MARKETPLACE	16383,439	4/12/2019		
Sophos Limited	METHOD FOR CONDITIONALLY HOOKING ENDPOINT PROCESSES WITH A SECURITY AGENT	15976,825	9/3/2018		
Sophos Limited	PROTECTING SENSITIVE INFORMATION FROM A SECURE DATA STORE	16523,273	7/26/2019		
Sophos Limited	COMBINED SECURITY AND QOS COORDINATION AMONG DEVICES	16561,199	9/3/2019		
Sophos Limited	PERIMETER ENCRYPTION	16575,913	9/19/2019		
Sophos Limited	KEY THROTTLING TO MITIGATE UNAUTHORIZED FILE ACCESS	16589,429	10/1/2019		
Sophos Limited	COMPUTER AUGMENTED THREAT EVALUATION	16128,994	9/12/2018		
Sophos Limited	COMPUTER ASSISTED IDENTIFICATION OF INTERMEDIATE LEVEL THREATS	16128,953	9/12/2018		

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Sophos Limited	THREAT DETECTION WITH BUSINESS IMPACT SCORING	16/129,123	9/12/2018		
Sophos Limited	DYNAMIC FILTERING OF ENDPOINT EVENT STREAMS	16/129,027	9/12/2018		
Sophos Limited	FORENSIC QUERY OF LOCAL EVENT STREAMS IN AN ENTERPRISE NETWORK	16/129,113	9/12/2018		
Sophos Limited	ENTERPRISE NETWORK THREAT DETECTION	16/129,143	9/12/2018		
Sophos Limited	FORENSIC ANALYSIS OF COMPUTING ACTIVITY	16/878,135	11/8/2019		
Sophos Limited	INTRUSION DETECTION WITH HONEYPOT KEYS	16/146,261	9/28/2018		
Sophos Limited	USE OF AN APPLICATION CONTROLLER TO MONITOR AND CONTROL SOFTWARE FILE AND APPLICATION ENVIRONMENTS	16/692,589	11/22/2018		
Sophos Limited	METHODS AND APPARATUS FOR PRESERVING INFORMATION BETWEEN LAYERS WITHIN A NEURAL NETWORK	16/158,844	10/12/2018		