

**IN THE UNITED STATES DISTRICT COURT
FOR THE WESTERN DISTRICT OF TEXAS
WACO DIVISION**

WEBROOT, INC. and OPEN TEXT, INC.,	§	
	§	
Plaintiffs	§	
	§	
v.	§	NO. 6:22-cv-239-ADA-DTG
	§	
TREND MICRO INC.,	§	JURY TRIAL DEMANDED
	§	
Defendant.	§	
TREND MICRO INC.,	§	
	§	
Counter-Plaintiff	§	
	§	
v.	§	
	§	
WEBROOT, INC. and OPEN TEXT, INC.,	§	
	§	
Counter-Defendants,	§	
	§	
and	§	
	§	
OPEN TEXT CORP.	§	
	§	
Counter-Defendant.	§	
	§	

DEFENDANT’S PRELIMINARY INVALIDITY CONTENTIONS

Defendant Trend Micro Inc. (“Trend Micro” or “Defendant”), by their attorneys, make these Invalidity Contentions concerning U.S. Patent Nos. 8,181,244 (the “’244 patent”), 8,201,243 (the “’243 patent”), 8,719,932 (“the ’932 patent”), 8,856,505 (the “’505 patent”), and 11,409,869 (the “’869 patent”) (collectively, the “Asserted Patents”) to Open Text, Inc. (“Open Text”) and Webroot, Inc. (“Webroot”) (all together “Plaintiffs”) in connection with the above-referenced action, pursuant to the Court’s Scheduling Order (Dkt. 160) and the Court’s Order Governing

Defendant reserves the right to rely upon additional evidence of invalidity obtained in the future, including, for example, from third parties.⁵ In addition, Defendant reserves the right to assert invalidity under 35 U.S.C. § 102(c) or (d) to the extent that further investigation and discovery yield information forming the basis for such claims.

A. Prior Art Patents

Defendant contends the following prior art patents anticipate or render obvious one or more asserted claims of the Asserted Patents under 35 U.S.C. §§ 102(a), (b), and/or (e) (pre-AIA) / 35 U.S.C. §§ 102(a)(1) and/or (a)(2) (AIA) or 35 U.S.C. § 103:

Country	Patent / Publication No.	Filing/Publication/ Issue Date	Inventor (et al.)
US	8,321,910	Filed Jan. 20, 2006 Issued Nov. 27, 2012	<i>English</i>
US	2007/0150957	Filed Dec. 28, 2005 Published Jun. 28, 2007	<i>Hartrell</i>
US	2006/0179484	Filed Feb. 9, 2005 Published Aug. 10, 2006	<i>Scrimsher</i>
US	7,093,292	Filed Feb. 8, 2002 Issued Aug. 15, 2006	<i>Pantuso</i>
US	7,558,796	Filed May 19, 2005 Issued Jul. 7, 2009	<i>Bromwich</i>
US	60/762,359	Filed Jan. 25, 2006	<i>Kronenberg</i>
US	7,784,098	Filed Jul. 14, 2005 Issued Aug. 24, 2010	<i>Fan</i>
US	2006/0206937	Filed Feb. 24, 2006 Published Sep. 14, 2006	<i>Repasi</i>
US	2004/0225877	Filed Mar. 3, 2004 Published Nov. 11, 2004	<i>Huang</i>
US	7,756,834	Filed Nov. 3, 2005 Issued Jul. 13, 2010	<i>Masters</i>
US	7,979,889	Filed Jan. 7, 2005 Issued Jul. 12, 2011	<i>Gladstone</i>
US	2009/0144826	Filed Jun. 30, 2005 Published Jan. 4, 2007	<i>Piccard</i>
US	2003/0084349	Filed Aug. 9, 2002 Published May 1, 2003	<i>Friedrichs</i>

⁵ Pursuant to the Scheduling Order (Dkt. No. 160), Fact Discovery opens April 18, 2023.

Country	Patent / Publication No.	Filing/Publication/ Issue Date	Inventor (et al.)
WO	2001/016709	Filed Aug. 30, 2000 Published Mar. 8, 2001	<i>Moran</i>
JP	2004-086241	Filed Aug. 22, 2002 Published Mar. 18, 2004	<i>Sekiguchi</i>
US	2006/0070130	Filed Sep. 27, 2004 Published Mar. 30, 2006	<i>Costea</i>
US	7,568,233	Filed Apr. 1, 2005 Issued Jul. 28, 2009	<i>Szor</i>
US	7,398,399	Filed Dec. 12, 2003 Issued Jul. 8, 2008	<i>Palliyil</i>
US	9,129,111	Filed Jan. 18, 2006 Issued Sep. 8, 2015	<i>Rothwell</i>
US	8,516,583	Filed Mar. 31, 2005 Issued Aug. 20, 2013	<i>Thomas</i>
US	7,647,636	Filed Aug. 24, 2005 Issued Jan. 12, 2010	<i>Polyakov</i>
US	7,571,482	Filed Jun. 28, 2005 Issued Aug. 4, 2009	<i>Polyakov</i>
US	9,171,157	Filed Mar. 28, 2006 Issued Oct. 27, 2015	<i>Flores</i>
US	8,272,058	Filed Jul. 29, 2005 Issued Sep. 18, 2012	<i>Brennan</i>
US	7,509,677	Filed May 4, 2004 Issued Mar. 24, 2009	<i>Saurabh</i>
US	2002/0178374	Filed May 25, 2001 Issued Nov. 28, 2002	<i>Swimmer</i>
US	7,152,242	Filed Sep. 11, 2002 Issued Dec. 19, 2006	<i>Douglas</i>
US	8,627,458	Filed Jan. 13, 2004 Issued Jan. 7, 2014	<i>Muttik</i>
US	7,231,667	Filed May 29, 2003 Issued Jun. 12, 2007	<i>Jordan</i>
US	7,934,103	Filed Apr. 15, 2003 Issued Apr. 26, 2011	<i>Kidron</i>
US	2007/0016951	Filed Jul. 13, 2005 Published Jan. 18, 2007	<i>Piccard</i>
US	2003/0120935	Filed Nov. 14, 2002 Published Jun. 26, 2003	<i>Teal</i>
US	2006/0031673	Filed Nov. 23, 2004 Published Feb. 9, 2006	<i>Beck</i>
US	2006/0174319	Filed Jan. 28, 2005 Published Aug. 3, 2006	<i>Kraemer</i>
US	8,239,947	Filed Feb. 6, 2006 Issued Aug. 7, 2012	<i>Glick</i>

Country	Patent / Publication No.	Filing/Publication/ Issue Date	Inventor (et al.)
US	2008/0005797	Filed Jun. 30, 2006 Published Jan. 3, 2008	<i>Field</i>
US	2006/0075502	Filed Dec. 13, 2004 Published Apr. 6, 2006	<i>Edwards</i>
US	2004/0143749	Filed Jan. 16, 2003 Published Jul. 22, 2004	<i>Tajali</i>
US	2004/0205419	Filed Apr. 10, 2003 Published Oct. 14, 2004	<i>Liang</i>
US	5,680,547	Filed Aug. 8, 1995 Issued Oct. 21, 1997	<i>Chang</i>
US	8,171,552	Filed Feb. 14, 2006 Issued May 1, 2012	<i>Chang</i>
US	7,840,958	Filed Feb. 17, 2006 Issued Nov. 23, 2010	<i>Wan</i>
US	8,037,290	Filed Jul. 1, 2005 Issued Oct. 11, 2011	<i>Stutton</i>
US	60/806143	Filed Jun. 29, 2006	<i>Shukla</i>
US	7,549,055	Filed May 19, 2003 Issued Jun. 16, 2009	<i>Zimmer</i>
US	2007/0250817	Filed Apr. 20, 2006 Published Oct. 25, 2007	<i>Boney</i>
US	2007/0078915	Filed Oct. 5, 2005 Published Apr. 5, 2007	<i>Gassoway</i>
US	2007/0271610	Filed May 16, 2006 Published Nov. 22, 2007	<i>Grobman</i>
US	2004/0243829	Filed May 29, 2003 Published Dec. 2, 2004	<i>Jordan</i>
US	2006/0150256	Filed Dec. 5, 2005 Published Jul. 6, 2006	<i>Fanton</i>
US	7,565,550	Filed Oct. 9, 2003 Issued Jul. 21, 2009	<i>Liang</i>
US	8,495,144	Filed Oct. 6, 2004 Issued Jul. 23, 2013	<i>Cheng</i>
US	7,308,714	Filed Sep. 27, 2001 Issued Dec. 11, 2007	<i>Bardsley</i>
US	8,161,548	Filed Aug. 15, 2005 Issued Apr. 17, 2012	<i>Wan</i>
US	7,664,626	Filed Mar. 24, 2006 Issued Feb. 16, 2010	<i>Ferrie</i>
US	7,231,667	Filed May 29, 2003 Issued Jun. 12, 2007	<i>Jordan</i>
US	6,594,686	Filed Mar. 2, 2000 Issued Jul. 15, 2003	<i>Edwards</i>

Country	Patent / Publication No.	Filing/Publication/ Issue Date	Inventor (et al.)
US	6,889,167	Filed Feb. 27, 2003 Issued May 3, 2005	<i>Curry, III</i>
US	7,096,500	Filed Dec. 21, 2001 Issued Aug. 22, 2006	<i>Roberts</i>
US	7,590,813	Filed Aug. 9, 2004 Issued Sep. 15, 2009	<i>Szor</i>
US	7,624,444	Filed Jun. 13, 2002 Issued Nov. 24, 2009	<i>Gupta</i>
US	7,681,226	Filed Jan. 28, 2005 Issued Mar. 16, 2010	<i>Kraemer</i>
US	7,774,824	Filed Jun. 9, 2004 Issued Aug. 10, 2010	<i>Ross</i>
US	7,793,091	Filed Aug. 26, 2005 Issued Sep. 7, 2010	<i>Weikel, Jr.</i>
US	7,840,763	Filed Sep. 14, 2007 Issued Nov. 23, 2010	<i>Murotake</i>
US	7,877,801	Filed May 16, 2007 Issued Jan. 25, 2011	<i>Repasi</i>
US	7,877,809	Filed Apr. 20, 2006 Issued Jan. 25, 2011	<i>Sutton</i>
US	7,926,106	Filed Apr. 6, 2006 Issued Apr. 12, 2011	<i>Kennedy</i>
US	7,941,659	Filed Oct. 31, 2007 Issued May 10, 2011	<i>Lam</i>
US	8,234,710	Filed Mar. 3, 2009 Issued Jul. 31, 2012	<i>Wenzinger</i>
US	2005/0005160	Filed Jul. 1, 2004 Published Jan. 6, 2005	<i>Bates</i>
US	2006/0037079	Filed Aug. 2, 2005 Published Feb. 16, 2006	<i>Midgley</i>
US	2006/0095964	Filed Oct. 29, 2004 Published May 4, 2006	<i>Costea</i>
US	2006/0095970	Filed Nov. 3, 2004 Published May 4, 2006	<i>Rajagopal</i>
US	7,373,664	Filed Dec. 16, 2002 Issued May 13, 2008	<i>Kissel</i>
US	8,117,659	Filed Dec. 28, 2005 Issued Feb. 14, 2012	<i>Hartrell</i>
US	60/803058	Filed May 24, 2006	<i>Gutterman</i>
US	2004/0078580	Filed Oct. 18, 2002 Published Apr. 22, 2004	<i>Hsu</i>
US	2004/0199827	Filed Apr. 1, 2003 Published Oct. 7, 2004	<i>Muttik</i>

Country	Patent / Publication No.	Filing/Publication/ Issue Date	Inventor (et al.)
US	2006/0156397	Filed Jan. 13, 2005 Published Jul. 13, 2006	<i>Dai</i>
US	7,822,818	Filed Jul. 1, 2005 Issued Oct. 26, 2010	<i>Desouza</i>
US	7,203,962	Filed Aug. 30, 2000 Issued Apr. 10, 2007	<i>Moran</i>
US	5,886,699	Filed Jul. 21, 1997 Issued Mar 23, 1999	<i>Belfiore</i>
US	5,832,208	Filed Sep. 5, 1996 Issued Nov. 3, 1998	<i>Chen</i>
US	2007/0067844	Filed Sep. 16, 2005 Published Mar. 22, 2007	<i>Williamson</i>
US	2006/0130141	Filed Dec. 15, 2004 Published Jun. 15, 2006	<i>Kramer</i>
US	2006/0259967	Filed May 13, 2005 Published Nov. 16, 2006	<i>Thomas</i>
US	7,134,141	Filed Jun. 12, 2001 Issued Nov. 7, 2006	<i>Crosbie</i>
US	7,376,970	Filed Feb. 20, 2004 Issued May 20, 2008	<i>Marinescu</i>
US	7,398,553	Filed Oct. 29, 2001 Issued Jul. 8, 2008	<i>Li</i>
US	7,418,729	Filed Oct. 4, 2002 Issued Aug. 26, 2008	<i>Szor</i>
US	7,434,261	Filed Sep. 27, 2004 Issued Oct. 7, 2008	<i>Costea</i>
US	7,478,431	Filed Aug. 2, 2002 Issued Jan. 13, 2009	<i>Nachenberg</i>
US	7,735,138	Filed May 10, 2005 Issued Jun. 8, 2010	<i>Zhao</i>
US	7,779,472	Filed Oct. 11, 2005 Issued Aug. 17, 2010	<i>Lou</i>
US	7,861,303	Filed Apr. 12, 2002 Issued Dec. 28, 2010	<i>Kouznetsov</i>
US	7,874,001	Filed Jul. 15, 2005 Issued Jan. 18, 2011	<i>Beck</i>
US	2006/0259819	Filed May 10, 2006 Published Nov. 16, 2006	<i>Connor</i>
US	6,327,579	Filed Oct. 14, 1999 Issued Dec. 4, 2001	<i>Crawford</i>
US	6,966,059	Filed Mar 11, 2002 Issued Nov. 15, 2005	<i>Shetty</i>
US	7,055,148	Filed Dec. 7, 2000 Issued May 30, 2006	<i>Marsh</i>

Country	Patent / Publication No.	Filing/Publication/ Issue Date	Inventor (et al.)
US	7,653,941	Filed Sep. 1, 2006 Issued Jan. 26, 2010	<i>Gleichauf</i>
US	7,664,984	Filed Aug. 26, 2005 Issued Feb. 16, 2010	<i>Wang</i>
US	7,702,907	Filed Oct. 1, 2004 Issued Apr. 20, 2010	<i>Vaha-Sipila</i>
US	7,996,902	Filed Jun. 30, 2006 Issued Aug. 9, 2011	<i>Gordon</i>
US	8,312,545	Filed Apr. 6, 2007 Issued Nov. 13, 2012	<i>Tuvell</i>
US	8,387,146	Filed Mar 14, 2011 Issued Feb. 26, 2013	<i>Parish</i>
US	8,856,473	Filed Jul. 1, 2005 Issued Oct. 7, 2014	<i>van Riel</i>
US	9,602,538	Filed Mar. 21, 2006 Issued Mar. 21, 2017	<i>Chou</i>
US	2007/0118646	Filed Oct. 4, 2005 Published May 24, 2007	<i>Gassoway</i>
US	5,511,184	Filed Oct. 22, 1993 Issued Apr. 23, 1996	<i>Lin</i>
US	2008/0271163	Filed Sep. 4, 2003 Published Oct. 30, 2008	<i>Stillerman</i>
US	60/793475	Filed Apr. 21, 2006	<i>Lowrey</i>
US	7,406,603	Filed Aug. 31, 2000 Issued Jul. 29, 2008	<i>MacKay</i>
US	5,121,345	Filed Oct. 10, 1990 Issued Jun. 9, 1992	<i>Lentz</i>
US	6,149,522	Filed Jun. 29, 1998 Issued Nov. 21, 2000	<i>Alcorn</i>
US	2004/0236960	Filed May 19, 2003 Published Nov. 25, 2004	<i>Zimmer</i>
US	2005/0268079	Filed May 17, 2004 Published Dec. 1, 2005	<i>Rothman</i>
US	60/830122	Filed Jul. 12, 2006	<i>Just</i>
US	2007/0028292	Filed Feb. 20, 2004 Published Feb. 1, 2007	<i>Kabzinski</i>
US	5,991,881	Filed Nov. 8, 1996 Issued Nov. 23, 1999	<i>Conklin</i>
US	7,174,566	Filed Feb. 1, 2002 Issued Feb. 6, 2007	<i>Yadav</i>
US	2007/0050846	Filed Aug. 30, 2005 Published Mar. 1, 2007	<i>Xie</i>

Country	Patent / Publication No.	Filing/Publication/ Issue Date	Inventor (et al.)
US	8,191,139	Filed Dec. 20, 2004 Issued May 29, 2012	<i>Heimerdinger</i>
US	7,930,746	Filed Dec. 29, 2005 Issued Apr. 19, 2011	<i>Sheleheda</i>
US	7,900,194	Filed Mar. 23, 2005 Issued Mar. 1, 2011	<i>Mankins</i>
US	7,899,901	Filed Dec. 2, 2002 Issued Mar. 1, 2011	<i>Njemanze</i>
US	7,450,005	Filed Jan. 18, 2006 Issued Nov. 11, 2008	<i>Anand</i>
US	7,024,694	Filed Jun. 13, 2000 Issued Apr. 4, 2006	<i>Ko</i>
US	6,839,850	Filed Mar. 4, 1999 Issued Jan. 4, 2005	<i>Campbell</i>
US	6,775,780	Filed Mar 16, 2000 Issued Aug. 10, 2004	<i>Muttik</i>
US	6,742,128	Filed Aug. 28, 2002 Issued May 25, 2004	<i>Joiner</i>
US	2006/0236392	Filed Mar. 31, 2005 Published Oct. 19, 2006	<i>Thomas</i>
US	7,475,135	Filed Mar. 31, 2005 Issued Jan. 6, 2009	<i>Bantz</i>
US	7,340,777	Filed Mar. 31, 2003 Issued Mar. 4, 2008	<i>Szor</i>
US	2003/0177394	Filed Dec. 26, 2002 Published Sep. 18, 2003	<i>Dozortsev</i>
US	2004/0172557	Filed Aug. 20, 2003 Published Sep. 2, 2004	<i>Nakae</i>
US	7,587,724	Filed Jul. 13, 2005 Issued Sep. 8, 2009	<i>Yeap</i>
US	8,838,992	Filed Apr. 28, 2011 Issued Sept. 16, 2014	<i>Zhu</i>
US	9,940,459	Filed May 19, 2015 Issued Apr. 10, 2018	<i>Saxe</i>
US	8,505,094	Filed Jan. 13, 2010 Issued Aug. 6, 2013	<i>Xuewen</i>
US	10,666,676	Filed Aug. 18, 2014 Issued May 26, 2020	<i>Hsu</i>
US	8,935,788	Filed Oct. 15, 2008 Issued Jan 13, 2015	<i>Diao (“Diao ’788”)</i>
US	7,756,535	Filed July 7, 2006 Issued July 13, 2010	<i>Diao (“Diao ’535”)</i>
US	8,560,466	Filed Feb. 26, 2010 Issued Oct. 15, 2013	<i>Diao (“Diao ’466”)</i>

Country	Patent / Publication No.	Filing/Publication/ Issue Date	Inventor (et al.)
US	7,689,531	Filed Sept. 28, 2005 Issued Mar. 30, 2010	<i>Diao (“Diao ’531”)</i>
US	7,949,771	Filed Sept. 5, 2007 Issued May 24, 2011	<i>Chen</i>
US	8,495,144	Filed Oct. 6, 2004 Issued July 23, 2013	<i>Cheng</i>
US	8,850,570	Filed June 30, 2008 Issued Sept. 30, 2014	<i>Ramzan</i>
US	8,023,974	Filed Feb. 15, 2007 Issued Sep. 20, 2011	<i>Diao (“Diao ’974”)</i>
US	8,161,548	Filed Aug. 15, 2005 Issued Apr. 17, 2012	<i>Wan</i>
US	2014/0090061	Filed Sep. 26, 2013 Published Mar. 27, 2014	<i>Avasarala</i>
US	2017/0098074	Filed June 11, 2014 Published Apr. 6, 2017	<i>Okano (“Okano ’074”)</i>
US	2015/0213376	Filed Jan. 29, 2015 Published July 30, 2015	<i>Ideses</i>
US	2013/0198841	Filed Jan. 30, 2012 Published Aug. 1, 2013	<i>Poulson</i>
US	2003/0065926	Filed July 30, 2002 Published Apr. 3, 2003	<i>Schultz (“Schultz ’926”)</i>
US	2006/0037080	Filed Aug. 12, 2005 Published Feb. 16, 2006	<i>Maloof</i>
US	2015/0096024	Filed Sept. 30, 2013 Published Apr. 2, 2015	<i>Haq</i>
US	2006/0026675	Filed July 28, 2004 Published Feb. 2, 2006	<i>Cai</i>
US	2009/0254992	Filed Dec. 18, 2008 Published Oct. 8, 2009	<i>Schultz (Schultz ’992”)</i>
EP	2,182,458	Filed Oct. 1, 2009 Published May 5, 2010	<i>Moskovitch</i>
US	2010/0162395	Filed December 18, 2008 Published June 24, 2010	<i>Kennedy</i>
US	8,826,439	Filed January 26, 2011 Published September 2, 2014	<i>Hu</i>
US	2011/0225655	Filed March 15, 2010 Published September 15, 2011	<i>Niemela</i>
US	2014/0181973	Filed May 7, 2013 Published June 26, 2014	<i>Lee</i>
US	9,781,151	Filed October 11, 2011 Published October 3, 2017	<i>McCorkendale</i>
US	9,245,120	Filed July 15, 2013 Published January 26, 2016	<i>Friedrichs</i>

Country	Patent / Publication No.	Filing/Publication/ Issue Date	Inventor (et al.)
US	10,268,820	Filed June 11, 2014 Published April 23, 2019	<i>Okano</i> (“ <i>Okano '820</i> ”)
US	9,398,034	Filed December 19, 2013 Published July 19, 2016	<i>Ronen</i>
US	8,799,190	Filed June 17, 2011 Published August 5, 2014	<i>Stokes</i>
US	8,955,133	Filed June 9, 2011 Published February 10, 2015	<i>Kumar</i>
US	9,672,355	Filed September 14, 2012 Published June 6, 2017	<i>Titonis</i>
US	9,208,323	Filed January 13, 2014 Published December 8, 2015	<i>Karta</i>

Defendant relies upon additional prior art patents identified in Exhibits 244-B, 243-B, 932-B, 505-B, and 869-B, and herein incorporates by reference the identification and discussion of such prior art patents in such exhibits. *See also* Section IV, *infra*.

B. Prior Art Publications

Defendant contends the following publications anticipate or render obvious one or more asserted claims of the Asserted Patents under 35 U.S.C. §§ 102(a) and/or (b) (pre-AIA) / 35 U.S.C. §§ 102(a)(1) (AIA) or 35 U.S.C. § 103:

Publication Title	Date	Publisher	Author (s)
UCLog: A Unified, Correlated Logging Architecture for Intrusion Detection	2004	Int’l Conf. on Telecomm. Sys.-Modelling & Analysis	Li et al.
A multiagent approach to outbound intrusion detection (Ph.D. Thesis)	2004	Instituto Tecnológico y de Estudios Superiores de Monterrey	Salvador Mandujano Vergara
A Real-Time Intrusion-Detection Expert System (IDES)	1992	SRI International	Lunt et al.
TrustedBox: a Kernel-Level Integrity Checker	1999	IEEE Computer Security Applications Conference	Iglio

Publication Title	Date	Publisher	Author (s)
Using Labeling to Prevent Cross-Service Attacks Against Smart Phones	2006	Springer	Mulliner et al.
Watcher: The Missing Piece of the Security Puzzle	2001	IEEE	Munson et al.
Trust-enhanced alteration scenario for universal computer	Dec. 2005	IEEE	Ren et al.
An Intrusion-Tolerant and Self-Recoverable Network Service System Using A Security Enhanced Chip Multiprocessor	Jun. 2005	IEEE	Shi et al.
Detecting Attacks That Exploit Application-Logic Errors Through Application-Level Auditing	Dec. 2004	IEEE	Zhou et al.
Malicious Code Detection for Open Firmware	2002	IEEE	Adelstein et al.
A Real-time Integrity Monitor for Xen Virtual Machine	Jul. 2006	IEEE	Quynh et al.
Protecting Data from Malicious Software	2002	IEEE	Schmid et al.
Detecting Stealth Software with Strider GhostBuster	2005	IEEE	Wang et al.
Detecting Exploit Code Execution in Loadable Kernel Modules	Dec. 2004	IEEE	Xu et al.
On a μ -Kernel Based System Architecture Enabling Recovery from Rootkits	2005	IEEE	Grizzard et al.
Detecting Kernel-Level Rootkits Through Binary Analysis	Dec. 2004	IEEE	Kruegel et al.
Improving Host Security with System Call Policies	Aug. 2003	USENIX	Provos
Monitoring Registry Activity During the Boot Process	Jun. 2005	SysInternals.com	Russinovich
Regmon for Windows NT/9x	Jun. 2005	SysInternals.com	Russinovich
RootkitRevealer	Jul. 2005	SysInternals.com	Cogswell
A generic anti-spyware solution by access control list at kernel level	2005	Elsevier	Chow et al.
Using Blacklight to detect and remove Rootkits from your computer	May 2006	F-Secure.com	F-Secure
The Cure - F-Secure BlackLight	Aug. 2005	F-Secure.com	F-Secure

Publication Title	Date	Publisher	Author (s)
Application of a Methodology to Characterize Rootkits Retrieved from Honeynets	Jun. 2004	IEEE	Levine et al.
Detecting and Categorizing Kernel-Level Rootkits to Aid Future Detection	2006	IEEE	Levine et al.
A Methodology to Characterize Kernel Level Rootkit Exploits that Overwrite the System Call Table	2004	IEEE	Levine et al.
Isolated Program Execution: An Application Transparent Approach for Executing Untrusted Programs	2003	IEEE	Liang et al.
Malicious ICMP Tunneling: Defense against the Vulnerability	Jul. 2003	Springer	Singh
Linux Security Modules: General Security Support for the Linux Kernel	Aug. 2002	USENIX	Wright et al.
API Spying Techniques for Windows 9x	2001	internals.com	Kaplan
UCLog+: A Security Data Management System	2006	Arxiv.org	Yurcik
Information Gathering with Mobile Agents for an Intrusion Detection System	1999	Scripta Technica	Asaka
Tracing Attacks and Restoring Integrity with LASCAR	2004	Springer	Aellig
An Immune System for Cyberspace	1997	IEEE	Kephart et al.
Enriching Intrusion Alerts Through Multi-Host Casuality	Feb. 2005	NDSS	King et al.
Bayesian Event Classification for Intrusion Detection	2003	IEEE	Kruegel et al.
Alert Confidence Fusion in Intrusion Detection Systems	2005	ACM	Yu et al.
Using Management Center for Cisco Security Agents 4.0 Cisco Systems, Inc.)	2003	Cisco Systems, Inc.	Cisco
Remote Attack Detection Method in IDA	2003	Wiley	Asaka et al.
Proventia Desktop User Guide	2005	ISS (Internet Security Systems, Inc.)	ISS
Classification of Malware Based on Integrated Static and Dynamic Features	Nov. 2012	Journal of Network and Computer Applications	Islam et al.

Publication Title	Date	Publisher	Author (s)
A Static Malware Detection System Using Data Mining Methods	July 2013	International Journal of Artificial Intelligence & Applications	Baldangombo et. al.
Improving Malware Detection by Applying Multi-Inducer Ensemble	Feb. 2009	Computational Statistics and Data Analysis	Menahem et al.
Data Mining Tools For Malware Detection	2011	Taylor & Francis Group, LLC (CRC Press)	Masud et al.
Mal-ID: Automatic Malware Detection Using Common Segment Analysis and Meta-Features	Apr. 2012	Journal of Machine Learning Research	Tahan et al.
Classification of Malware Based on String and Function Feature Selection	July 2010	Institute of Electrical and Electronics Engineers	Islam et al.
Classification of Malware Using Reverse Engineering and Data Mining Techniques	August, 2011	The University of Akron	Ravula et al.

Defendant relies upon additional prior art publications identified in Exhibits 244-B, 243-B, 932-B, 505-B, and 869-B, and herein incorporates by reference the identification and discussion of such prior art publications in such exhibits. *See also* Section IV, *infra*.

C. Prior Art Systems

Upon information and belief, the below prior art systems concern malware and network threat detection, prevention, and remediation, and were used, sold, offered for sale, and/or otherwise available to the public before the Asserted Patents.

Defendant contends that these prior art systems, either alone or in combination with other prior art, render invalid one or more asserted claims of the Asserted Patents under 35 U.S.C §§ 102(a), (b), and/or (g) (pre-AIA) / 35 U.S.C. §§ 102(a)(1) (AIA), or 35 U.S.C. § 103.

Fact Discovery in this litigation has not begun, and Defendant's prior art investigation, including via discovery into prior art systems, such as these identified below or other systems

Dated: February 21, 2023

Respectfully Submitted,

/s/ Yar R. Chaikovsky

Yar R. Chaikovsky

yarchaikovsky@paulhastings.com

Philip Ou

philipou@paulhastings.com

Bruce Yen

bruceyen@paulhastings.com

Radhesh Devendran

radheshdevendran@paulhastings.com

PAUL HASTINGS LLP

1117 S. California Avenue

Palo Alto, CA 94304

Telephone: (650) 320-1800

Facsimile: (650) 320-1900

Attorneys for Defendant

CERTIFICATE OF SERVICE

The undersigned hereby certifies that a true and correct copy of the foregoing document has been served on February 21, 2023, to all counsel of record via e-mail.

/s/ C. Daniel Treviño
C. Daniel Treviño