UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

GOOGLE LLC,
Petitioner,

v.

SECURITY FIRST INNOVATIONS, LLC,
Patent Owner.

Case IPR2024-00215
Patent 10,452,854

PATENT OWNER'S UPDATED EXHIBIT LIST

EXHIBIT LIST	
2001	Declaration of Nathan Lowenstein in Support of Motion for *Pro Hac Vice* Admission
2002	Declaration of Colette Woo in Support of Motion for *Pro Hac Vice* Admission
2003	Declaration of Aviel D. Rubin, Ph.D.
2004	Reserved
2005	Bruce Schneier Curriculum Vitae [Schneier-CV]
2006	Bruce Schneier, *Why Cryptography Is Harder Than It Looks*, SCHNEIER ON SECURITY, 1997, https://www.schneier.com/essays/archives/1997/01/why_cryptography_is.html [Schneier-Why-Cryptography-Is-Harder-Than-It-Looks]
2007	Excerpts from Jonathan Katz et al., *Introduction to Modern Cryptography* (1st ed. 2007) [Katz]
2008	Bruce Schneier, *Security Pitfalls in Cryptography*, SCHNEIER ON SECURITY, 1998, https://www.schneier.com/essays/archives/1998/01/security_pitfalls_in.html [Schneier-Security-Pitfalls-in-Cryptography]
2009	Excerpts from Ross Anderson, *Security Engineering: A Guide to Building Dependable Distributed Systems* (1st ed. 2001) [Anderson]
2010	Excerpts from Bruce Schneier, *Applied Cryptography, Second Edition: Protocols, Algorithms, and Source Code in C* (2nd ed. 2015) [Schneier-Applied-Cryptography]
2011	Patent Application Publication to Tsai US 2005/0195857 A1 [Tsai]
2012	Edgar Pek et al., *Formal Verification of Communication Protocols in Distributed Systems*, SYMPOSIUM ON OPERATING SYS. PRINCIPLES, 2003 [Pek]

2013	Jan Friso Groote et al., *A Bounded Retransmission Protocol for Large Data Packets: A Case Study in Computer Checked Algebraic Verification*, 1996 [Groote]
2014	Microsoft, *Overview of MPEG-2 Systems*, WWW.LEARN.MICROSOFT.COM, July 27, 2023, https://learn.microsoft.com/en-us/windows/win32/directshow/overview-of-mpeg-2-systems [Overview-of-MPEG-2-Systems]
2015	Excerpts from Harry Newton, *Newton's Telecom Dictionary* (16th ed. 2000) [Newton's-Telecom-Dictionary]
2016	Excerpts from *Oxford Dictionary of Computing* (1996) [Oxford-Dictionary-of-Computing]
2017	IBM, *Transmission Control Protocol (TCP)*, WWW.IBM.COM, https://www.ibm.com/docs/en/zos-basic-skills?topic=4-transmission-control-protocol-tcp [IBM]
2018	*Security First Innovations, LLC v. Google LLC*, 2:23-cv-00091 (JKW-RJK), Google's Opening Claim Construction Brief (December 6, 2023) [Google's-Opening-Claim-Construction-Brief]
2019	Excerpts from Microsoft Press, *Microsoft Computer Dictionary* (5th ed. 2002) [Microsoft-Computer-Dictionary]
2020	*Security First Innovations, LLC v. Google LLC*, 2:23-cv-00091 (JKW-RJK), Google's Responsive Claim Construction Brief (Jan. 8, 2024) (Non-Confidential Redacted Version) [Google-Responsive-Claim-Construction-Brief]
2021	Cambridge Dictionary, *Set-Top Box*, https://dictionary.cambridge.org/us/dictionary/english/set-top-box (last visited Feb. 27, 2024)

2022	Jim Connors, INFOWORLD, *The evolution of cable television to interactive communications service provider* (Oct. 1, 1996), https://www.infoworld.com/article/2077255/the-evolution-of-cable-television-to-interactive-communications-service-provider.html [InfoWorld]
2023-2027	Reserved
2028	Declaration of Colette Woo [SERVED, NOT FILED]
2029	Jonathan Katz et al., *Introduction to Modern Cryptography* (1st ed. 2007) [SERVED, NOT FILED]
2030	Reserved
2031	Ross Anderson, *Security Engineering: A Guide to Building Dependable Distributed Systems* (1st ed. 2001) [SERVED, NOT FILED]
2032	Bruce Schneier, *Applied Cryptography, Second Edition: Protocols, Algorithms, and Source Code in C* (2nd ed. 2015) (E-Book) [SERVED, NOT FILED]
2033	Second Declaration of Aviel D. Rubin, Ph.D. [Rubin-2nd-Decl.]
2034	Deposition Transcript of Samrat Bhattacharjee [Bhattacharjee-Depo.]
2035	C. Patrikakis et al., *Streaming Content Wars: Download and Play Strikes Back*, UCMedia 2009, LNICST 40, pp. 218–226, 2010. [Patrikakis]
2036	J. Hur et al., *Packet Chunking for File Detection*, IEEE/ACM Transactions on Networking Vol. 31 (2023). [Hur]
2037	R. Li et al., *A Framework for Qualitative Communications Using Big Packet Protocol*, 2019, https://doi.org/10.48550/arXiv.1906.10766. [Li-I]

2038	N. McKeown et al., *The Tiny Tera: A Packet Switch Core*, IEEE Micro 17, 1998. [McKeown]
2039	*Marlin DRM FAQ*, Marlin Community, https://www.marlin-community.com/faq/ (last accessed Sept. 9, 2024) [Marlin-DRM]
2040	*What is Conditional Access?*, Verimatrix anti-piracy (Aug. 1, 2023), https://www.verimatrix.com/anti-piracy/knowledge-base/what-is-conditional-access/ [Verimatrix]
2041	R. Li et al., *New IP: A Data Packet Framework to Evolve the Internet*, 2020, https://www.researchgate.net/publication/341582478 [Li-II]
2042	Vimal Kumar et al., *POP: Privacy and Integrity Preserving Data Aggregation in Wireless Sensor Networks*, PROCEEDINGS OF THE IEEE SYMPOSIUM ON RELIABLE DISTRIBUTED SYSTEMS, September 2013 [Kumar]
2043	Yuxin Mao et al., *A Feedback-Based Secure Path Approach for Wireless Sensor Network Data Collection*, SENSORS, October 22, 2010 [Mao]
2044	Institution Decision in IPR2024-00215 [215-ID]
2045	Second Declaration of Colette Woo [SERVED, NOT FILED]
2046	Second Deposition Transcript of Samrat Bhattacharjee [Bhattacharjee-2nd-Depo.]
2047	Declaration of Haley M. Sanders in Support of Motion for Pro Hac Vice Admission
2048	Patent Owner's Demonstratives

Respectfully submitted,

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Date: February 24, 2025

CERTIFICATE OF SERVICE

The undersigned hereby certifies that the following documents were served by electronic service, by agreement between the parties, on the date below:

PATENT OWNER'S UPDATED EXHIBIT LIST

EXHIBIT 2048

The names and addresses of the parties being served are as follows:

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