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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number	90019702
Filing Date	2024-10-14
First Named Inventor	RE47720
Art Unit	3992
Examiner Name	Matthew E. Heneghan
Attorney Docket Number	USTAP030D.RE

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Inventor of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	RE47720	E	2019-11-05	Burchfiel	
	2	5726978	A	1998-03-10	Frodigh et al.	
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	5	6426723	B1	2002-07-30	Smith et al.	
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	9	7046746	B1	2006-05-16	Keaney et al.	
	10	7369841	B1	2008-05-06	Uhlik et al.	
	11	7483711	B2	2009-01-27	Burchfiel	
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	14	8571135	B2	2013-10-29	Sorrells et al.	

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	1	20010016499	A1	2001-08-23	Hamabe	
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	4	20020172186	A1	2002-11-21	Larsson	
	5	20030043732	A1	2003-03-06	Walton et al.	
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	7	20030128659	A1	2003-07-10	Hirsch et al.	
	8	20030235147	A1	2003-12-25	Walton et al.	

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	1	200201732	WO	A2	2002-01-03	Nokia Corp.		☐

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1	Petition for Inter Partes Review of US Patent No. RE47,720 (IPR2025-01166), filed June 16, 2025 (106 pages)	☐

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	2	Exhibit 1002 - Declaration of Dr. Matthew Shoemake	☐
	3	Exhibit 1005 - File History of U.S. Patent No. RE47,720	☐
	4	Exhibit 1006 - File History of U.S. Patent No. 7,483,711	☐
	5	Exhibit 1009 - IEEE-SA Standards Board, IEEE Standard for Telecommunications and Information Exchange Between Systems - LAN/MAN Specific Requirements - Part 11: Wireless Medium Access Control (MAC) and physical layer (PHY) specifications: High Speed Physical Layer in the 5 GHz band, December 30, 1999.	☐
	6	Exhibit 1010 - USTA's Amended Infringement Contentions, USTA Technology, LLC v. AT&T Inc. et al, No. 4-24-cv-00513 (E.D. Tex. June 7, 2024).	☐
	7	Exhibit 1012 - Shoemake et al., High-Performance Wireless Ethernet, IEEE Communications Magazine, pgs. 64-73, Vol. 39, Issue 11, November 2001.	☐
	8	Exhibit 1013 - European Radiocommunications Committee, ERC Decision of 29 November 1999 on the harmonized frequency bands to be designated for the introduction of High Performance Radio Local Area Networks (HIPERLANs), November 29, 1999.	☐
	9	Exhibit 1014 - United States Department of Commerce News, Agreement Reached Regarding U.S. Position on 5 GHz Wireless Access Devices, January 31, 2003.	☐
	10	Exhibit 1015 - Federal Communications Commission, Notice of Proposed Rulemaking, June 4, 2003.	☐
	11	Exhibit 1016 - Approval of Project Authorization Request for 802.11 Task Group h, December 13, 2000.	☐
	12	Exhibit 1017 - S. Choi et al., Transmitter Power Control (TPC) and Dynamic Frequency Selection (DFS) Joint Proposal for 802.11h WLAN, May 16, 2001.	☐

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	13	Exhibit 1018 - M. Kasslin, Reasons for DFS Requirement in Europe, July 2001, https://mentor.ieee.org/802.11/dcn/01/11- 01-0442-00-000h-reasons-for-dfs-requirements.ppt (last accessed May 22, 2025).	☐
	14	Exhibit 1024 - Securing Wi-Fi Wireless Networks with Today's Technologies, Wi-Fi Alliance, February 6, 2003.	☐
	15	Exhibit 1025 - IEEE-SA Standards Board, IEEE Standard for Telecommunications and Information Exchange Between Systems – Local and metropolitan area networks – Specific requirements Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications, August 20, 1999.	☐
	16	Exhibit 1026 - Ketchum et al., PHY Design for Spatial Multiplexing MIMO WLAN, July 2004.	☐
	17	Exhibit 1034 - J. Salz et al, The Capacity of Wireless Communication Systems Can Be Substantially Increased by the Use of Antenna Diversity, IEEE Universal Personal Communications Conference (September 1992)	☐
	18	Exhibit 1035 - Gerard J. Foschini, Layered Space-Time Architecture for Wireless Communication in a Fading Environment When Using Multi-Element Antennas, Bell Laboratories Technical Journal, 1996	☐
	19	Exhibit 1036 - G. G. Raleigh, Spatio-Temporal Coding for Wireless Communication, IEEE Transactions on Communications, Vol. 46, No. 3, March 1998.	☐
	20	Exhibit 1037 - IEEE-SA Standards Board, Draft Supplement to STANDARD FOR Telecommunications and Information Exchange Between Systems - LAN/MAN Specific Requirements - Part 11: Wireless Medium Access Control (MAC) and physical layer (PHY) specifications: Medium Access Control (MAC) Enhancements for Quality of Service (QoS), March 2001.	☐
	21	Exhibit 1038 - McFarland et al, A 2.4 & 5 GHz Dual Band 802.11 WLAN Supporting Data Rates to 108 Mb/s, 2002 IEEE GaAs Digest, 2002.	☐
	22	Exhibit 1042 - E. M. Murtagh et al, Outdoor Walking Speeds of Apparently Healthy Adults: A Systematic Review and Meta-analysis, Sports Medicine, Vol. 51, pp. 125-141, published October 8, 2020.	☐

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EXAMINER SIGNATURE			
Examiner Signature		Date Considered	

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Signature	/James M. Lennon/	Date (YYYY-MM-DD)	2025-08-22
Name/Print	James M. Lennon	Registration Number	56815

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