

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

MEDIATEK INC. and
MEDIATEK USA, INC.,

Petitioners,

v.

NIPPON TELEGRAPH AND TELEPHONE CORPORATION,
Patent Owner.

Case IPR2020-01404
Patent 7,280,551

**PATENT OWNER'S NOTICE OF FILING
DEMONSTRATIVE EXHIBITS**

LISTING OF EXHIBITS

<u>Exhibit</u>	<u>Description</u>
2006	Kin K. Leung, <i>Outdoor IEEE 802.11 Cellular Networks: MAC Protocol Design and Performance</i> , 2002 IEEE International Conference on Communications New York, New York, USA, April 28-May 2, 2002 (“Leung 2002”)
2007	Univ. Rochester ECE, “Lecture 2 Media Access Control,” 2002 (“Rochester Lecture”)
2008	A. D. Myers and S. Basagni. <i>Handbook of Wireless Networks and Mobile Computing</i> , chapter 6: Wireless Media Access Control (“Myers”); Wiley Series on Parallel and Distributed Computing. John Wiley & Sons, Inc., New York, February 2002. I. Stojmenovic, ed. (“Myers 2002”)
2009	Cornell Univ. CS, “13: Link Layer, Multiple Access Protocols,” Apr. 9, 2003 (“Cornell Lecture”)
2010	John G. Proakis, <i>Digital Communications</i> (4th ed. 2001)
2011	Sky DSP “CDMA Results,” 1997-2001, available at http://www.skydsp.com/publications/4thyrthesis/chapter3.htm (“CDMA Results”)
2012	Northeastern Univ., “Medium Access Control (MAC), and Wireless LANs” 2000, at 18, available at https://www.ccs.neu.edu/home/rraj/Courses/6710/S10/Lectures/WirelessLANs.pdf (“Northeastern Lecture”)
2013	Defendant’s Preliminary Proposed Constructions, C.A. No. 1:20-cv- 00583-ADA, -00632-ADA, -00769-ADA (WDTX), Nov. 3, 2020
2014	“CDMA-Quick Guide,” available at https://www.tutorialspoint.com/cdma/cdma_quick_guide.htm
2015	“CDMA Testing,” Nov. 1, 1996, available at https://www.evaluationengineering.com/home/article/13000580/what-is-cdma-and-how-is-it-tested
2016	Plaintiff’s Proposed Constructions, C.A. No. 1:20-cv- 00583-ADA, -00632-ADA, -00769-ADA (WDTX), Nov. 3, 2020

<u>Exhibit</u>	<u>Description</u>
2021	Defendant's Preliminary Invalidity Contentions, C.A. No. 1:20-cv- 00583-ADA, -00632-ADA, -00769-ADA (WDTX), Oct. 6, 2020
2022	Univ. North Carolina, Wireless and Mobile Communications, "Medium Access Control," ("UNC Lecture") at 5, available at https://www.cs.unc.edu/~jasleen/Courses/Fall17-635/slides/4A-MAC-layer.pdf .
2023	Joint Claim Construction Statement, C.A. No. 1:20-cv- 00583-ADA, -00632-ADA, -00769-ADA (WDTX), Jan. 28, 2021
2024	Deposition Transcript of Tim A. Williams, Ph.D., Vol. 1, Case No. IPR2020-01404, April 9, 2021 ("Williams1")
2025	Deposition Transcript of Tim A. Williams, Ph.D., Vol. 2, Case No. IPR2020-01404, April 15, 2021 ("Williams2")
2026	Declaration of James T. Geier, May19, 2021 ("Geier")
2027	A. Nasipuri, J. Zhuang and S. R. Das, "A multichannel CSMA MAC protocol for multihop wireless networks," 1999 IEEE Wireless Communications and Networking Conference (1999), pp. 1402-1406 vol.3 ("Nasipuri")
2028	Yang, S. C. <i>3G CDMA2000: Wireless System Engineering</i> (2004) ("Yang")
2029	G. Giunta, "Basic note on Spread Spectrum CDMA signals," Digital Signal Processing course, Third University of Rome, (May 2000) ("Giunta")
2030	U.S. Patent No. 5,623,485 ("Bi")
2031	Mishra, Arunesh, et al., <i>Exploiting Partially Overlapping Channels in Wireless Networks: Turning a Peril into an Advantage</i> , Proceedings of the 5th Conference on Internet Measurement (2005) ("Mishra")
2032	U.S. Patent No. 7,539,162 ("Zhang")

Pursuant to 37 § 42.6(e)(4)(ii), and the Board's Order Setting Oral Argument (Paper 26), Patent Owner herewith submits the following Exhibit:

<u>Exhibit</u>	<u>Description</u>
2033	Patent Owner's Demonstrative Exhibits

Dated: November 15, 2021

Respectfully submitted,

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CERTIFICATE OF SERVICE

Pursuant to 37 C.F.R. §§ 42.8 and 42.6(e), the undersigned hereby certifies that the foregoing **Patent Owner's Request for Oral Argument** was served electronically via e-mail to:

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Dated: November 15, 2021

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