

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

DISH Network L.L.C.
Petitioner

v.

TQ Delta LLC
Patent Owner

Case No. IPR2016-01470
U.S. Patent No. 8,611,404

PETITIONER'S UPDATED EXHIBIT LIST

Ex. No.	Description of Document
1001	U.S. Patent No. 8,611,404 to Greszczuk et al. (“the ’404 patent”)
1002	Declaration of Leo Hoarty (“Hoarty Decl.”)
1003	File History for U.S. Patent No. 8,611,404
1004	U.S. Patent No. 5,956,323 to Bowie (“Bowie”)
1005	European Patent Publication No. EP 0883269 to Vanzielegem (“Vanzielegem”)
1006	ANSI T1.413-1995 – “Network and Customer Installation Interfaces – Asymmetric Digital Subscriber Line (ADSL) Metallic Interface” (Aug. 18, 1995) (“1995 ADSL Standard”)
1007	American National Standards Institute, “Procedures for the Development and Coordination of American National Standards” (March 22, 1995)
1008	Library of Congress, Excerpts from “Network and Customer Installation Interfaces – Asymmetric Digital Subscriber Line (ADSL) Metallic Interface” (Stamped Feb. 2, 1996)
1009	Linda Hall Library, Excerpts from “Network and Customer Installation Interfaces – Asymmetric Digital Subscriber Line (ADSL) Metallic Interface” (Stamped Apr. 15, 1996)
1010	Zogakis and Cioffi, “The Effect of Timing Jitter on the Performance of a Discrete Multitone System” (Jul. 1996)
1011	U.S. Patent No. 6,144,695 to Helms et al.
1012	U.S. Patent No. 5,815,505 to Mills
1013	U.S. Patent No. 5,974,139 to McNamara et al.
1014	U.S. Patent No. 6,091,722 to Russell et al.
1015	U.S. Patent No. 6,134,274 to Sankaranarayanan et al.

Ex. No.	Description of Document
1016	Curriculum Vitae of W. Leo Hoarty
1017	Edfors, et al., "An introduction to orthogonal frequency-division multiplexing" (Sept. 1996)
1018	Franks, "Carrier and Bit Synchronization in Data Communication – A Tutorial Review" (Aug. 1980)
1019	Hall, "Selecting an ADSL transceiver: ANSI standard offers two levels of modem performance" (Oct. 1, 1997)
1020	"Learning About Saving Energy" (Jan. 1995)
1021	"Technical Report TR-001: ADSL Forum System Reference Model" (May 1996)
1022	"Technical Report TR-005: ADSL Network Element Management" (Mar. 1998)
1023	"Technical Report TR-007: Interfaces and System Configurations for ADSL: Customer Premises" (Mar. 1998)
1024	"TR-013: Interfaces and System Configuration for ADSL Central Office" (Jan. 1999)
1025	"Technical Report TR-022: The Operation of ADSL-based Networks" (1999)
1026	"DSL Forum Technical Report TR-023: Overview of ADSL Testing" (May 26, 1999)
1027	"Technical Report TR-026: T1.413 Issue 2 ATM based ADSL ICS" (Sep. 9, 1999)
1028	"Technical Report TR-029: ADSL Dynamic Interoperability Testing" (Feb. 2000)
1029	"Technical Report, DSL Forum TR-031: ADSL ANSI T1.413-1998 Conformance Testing" (Mar. 2000)

Ex. No.	Description of Document
1030	“Technical Report, DSL Forum TR-033: ITU-T G.992.2 (G.lite) ICS” (Mar. 2000)
1031	PowerPoint Presentation, “ADSL and flavors in a nutshell”
1032	Bingham, “ADSL, VDSL, and Multicarrier Modulation” (2000)
1033	Kitz, “ADSL Technology and DMT”
1034	Tretter, “Communication System Design using DSP Algorithms” (2008)
1035	EE Times, “ADSL Technology Explained, Part 1: The Physical Layer” (Mar. 2001)
1036	EE Times, “ADSL2: Taking the Next Step in Broadband Designs” (Jul. 2002)
1037	Rorke, “Introduction to Copper Access Technologies and ADSL,” Rhodes University Computer Science Honours (1997)
1038	Tuijl, “Modem Techniques”
1039	Frenzel, “Network Timing Reference from Frequency Synchronization in xDSL based Access Networks” (Nov. 2010)
1040	Cordes and Johansson, “Synchronization in ADSL Modems” (Dec. 1998)
1041	University of California, “Overview of Cell Phone Technology”
1042	Radio-Electronics, “GSM Power Control and Power Class”
1043	ETSI, “Speech and multimedia Transmission Quality (STQ); QoS aspects for popular services in mobile networks; Part 2: Definition of Quality of Service parameters and their computation” (2016)
1044	Pettit, “Video Dialtone: Reflections on Changing Perspectives in Telecommunications Regulation,” Harvard Journal of Law and Technology, Vol. 6 (1993)

Ex. No.	Description of Document
1045	Fankhauser, et al. "The WaveVideo System and Network Architecture: Design and Implementation" (Jun. 1998)
1046	Hernandez, "April 20, 1964: Picturephone Dials Up First Transcontinental Video Call" (Apr. 2012)
1047	DSL Forum, "ADSL2 and ADSL2plus – The New ADSL Standards" (Mar. 2003)
1048	Abramson, "The Aloha System – Another alternative for computer communications", Fall Joint Computer Conference (1970)
1049	IEEE, "IEEE Standard for Ethernet" (Dec. 2012)
1050	Joint Claim Construction Chart, <i>TQ Delta v. Dish Network Corp. et al.</i> , 15-cv-00614 (Jun. 30, 2016)
1051	Website, "Streaming Video: Internet Broadcasting for the Masses" (1998)
1052	EE Times, "ADSL Technology Explained, Part 2: Getting to the Application Layer" (Apr. 2001)
1053	U.S. Patent No. 6,181,711
1054	Biography of Stephen McBride
1055	Declaration of Stephen McBride ISO Motion for <i>Pro Hac Vice</i> Admission
1056	Biography of Stephen Smith
1057	Declaration of Stephen Smith ISO Motion for <i>Pro Hac Vice</i> Admission
1058	Deposition Transcript of Dr. Douglas A. Chrissan on August 11, 2017
1059	Copy of Deposition Transcript of Dr. Douglas A. Chrissan filed in IPR2016-01466 on August 23, 2017 as Ex. 1011

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.