

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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COMCAST CABLE COMMUNICATIONS, LLC,  
Petitioner,

v.

ENTROPIC COMMUNICATIONS, LLC,  
Patent Owner.

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Case IPR2024-00435  
Patent 11,381,866

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**PETITIONER'S UPDATED EXHIBIT LIST**

## EXHIBITS

### *Previously Filed:*

- Ex. 1001: U.S. Patent No. 11,381,866 (“the ’866 patent”)
- Ex. 1002: Expert Declaration of David B. Lett
- Ex. 1003: Curriculum Vitae of David B. Lett
- Ex. 1004: Certified Prosecution History of the ’866 patent
- Ex. 1005: Certified Prosecution History of U.S. Patent No. 9,100,622
- Ex. 1006: Certified Prosecution History of U.S. Patent No. 8,526,898
- Ex. 1007: Certified Prosecution History of U.S. Provisional App. No. 61/170,526 (“’526 provisional”)
- Ex. 1008: Reserved
- Ex. 1009: Reserved
- Ex. 1010: Reserved
- Ex. 1011: Reserved
- Ex. 1012: Reserved
- Ex. 1013: U.S. Pub. No. 2003/0056221 (“Zhang”)
- Ex. 1014: U.S. Patent No. 7,237,214 (“Pandey”)
- Ex. 1015: Excerpts of “IEEE Std 100-2000, The Authoritative Dictionary of IEEE Standards Terms, Seventh Edition” (IEEE Press. 2000) (“IEEE Std 100”)
- Ex. 1016: Excerpts of Jan M Rabaey, “Digital Integrated Circuits: A Design Perspective” (Pearson, 2nd ed. 2002) (“Rabaey”)

- Ex. 1017: A. P. Chandrakasan, “Ultra low power digital signal processing,” Proceedings of 9th International Conference on VLSI Design, Bangalore, India, 1996, pp. 352-357 (“Chandrakasan”)
- Ex. 1018: S. Mirabbasi and K. Martin, “Classical and Modern Receiver Architectures,” IEEE Communications Magazine, vol. 38, no. 11, pp. 132-139, November 2000 (“Mirabbasi”)
- Ex. 1019: U.S. Patent No. 6,061,406 (“Carson”)
- Ex. 1020: U.S. Pub. No. 2006/0233147 (“Karabinis”)
- Ex. 1021: Data-Over-Cable Service Interface Specifications, DOCSIS 2.0, Radio Frequency Interface Specification, CM-SP-RFIV2.0-I11-060602
- Ex. 1022: Certified File History (as of February 2, 2024) for *Ex Parte* Reexamination No. 90/019,255
- Ex. 1023: Certified Prosecution History of U.S. Patent No. 9,100,363
- Ex. 1024: Reserved
- Ex. 1025: J. Crols and M. S. J. Steyaert, “Low-IF topologies for high-performance analog front ends of fully integrated receivers,” IEEE Transactions on Circuits and Systems II: Analog and Digital Signal Processing, vol. 45, no. 3, pp. 269-282, March 1998 (“Crols”)
- Ex. 1026: U.S. Pub. No. 2007/0027943 (“Jensen ’943”)
- Ex. 1027: U.S. Patents and Patent Applications Family Tree for U.S. Patent No. 11,381,866
- Ex. 1028: Reserved
- Ex. 1029: Entropic Communications, LLC v. Charter Communications, Inc., No. 2:22-cv-00125-JRG (E.D. Tex. June 26, 2023) (Claim Construction Memorandum Opinion and Order)
- Ex. 1030: Reserved

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|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ex. 1031: | Reserved                                                                                                                                                          |
| Ex. 1032: | Reserved                                                                                                                                                          |
| Ex. 1033: | Excerpts of W. Ciciora, J. Farmer, D. Large, and M. Adams, “Modern Cable Television Technology: Video, Voice, and Data Communications” (2nd ed. 2004) (“Ciciora”) |
| Ex. 1034: | Excerpts of J. Crols and M. Steyaert, “CMOS Wireless Transceiver Design” (1997)                                                                                   |
| Ex. 1035: | U.S. Patent No. 7,340,230 (“Khoini-Poorfard”)                                                                                                                     |
| Ex. 1036: | U.S. Pub. No. 2003/0217866 (“Summers”)                                                                                                                            |
| Ex. 1037: | U.S. Pub. No. 2006/0256799 (“Eng”)                                                                                                                                |
| Ex. 1038: | U.S. Pub. No. 2006/0083335 (“Seendripu”)                                                                                                                          |
| Ex. 1039: | Excerpts of Chris Bowick, “RF Circuit Design” (2nd ed. 2008)                                                                                                      |
| Ex. 1040: | Reserved                                                                                                                                                          |
| Ex. 1041: | Excerpts of Roland Priemer, “Introductory Signal Processing” (1991)                                                                                               |
| Ex. 1042: | U.S. Patent No. 7,272,375 (“Tuttle”)                                                                                                                              |
| Ex. 1043: | U.S. Patent No. 7,130,576 (“Gurantz”)                                                                                                                             |
| Ex. 1044: | U.S. Patent No. 5,278,837 (“Kelley”)                                                                                                                              |
| Ex. 1045: | Jeffrey Hugh Reed, “Software Radio: A Modern Approach to Radio Engineering” (2002)                                                                                |
| Ex. 1046: | U.S. Patent No. 7,213,042 (“Cannon”)                                                                                                                              |
| Ex. 1047: | Reserved                                                                                                                                                          |
| Ex. 1048: | Excerpts of William Buchanan, “Computer Busses” (2000) (“Buchanan”)                                                                                               |

Ex. 1049: U.S. Patent No. 7,079,528 (“Ziegler”)

Ex. 1050: Excerpts of “Software Defined Radio: Enabling Technologies”  
(Walter H.W. Tuttlebee ed., 2003)

Exs. 1051-1072: Reserved

Ex. 1073: Expert Declaration of Dr. Sylvia Hall-Ellis

Ex. 1074: Reserved

Ex. 1075: U.S. Patent No. 6,791,995 (“Azenkot”)

Ex. 1076: U.S. Patent No. 6,542,203 (“Shadwell”)

Ex. 1078: Second Expert Declaration of David B. Lett

Ex. 1079: Transcript of Deposition of Dr. Russ

*Served (Not Filed):*

Ex. 1077: Second Expert Declaration of Sylvia Hall-Ellis, Ph.D

***Filed Herewith:***

Ex. 1080: Petitioner Demonstratives

Respectfully submitted

Dated: July 11, 2025

By: /Frederic M. Meeker/

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## CERTIFICATE OF SERVICE

Pursuant to 37 C.F.R. § 42.105, I hereby certify that I caused a true and correct copy of this **PETITIONER'S UPDATED EXHIBIT LIST** in connection with IPR2024-00435 to be served via e-mail on July 11, 2025, in its entirety on the following counsel of record for Patent Owner:

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