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**BEFORE THE PATENT TRIAL AND APPEAL BOARD**

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ZTE (USA) Inc.,  
Samsung Electronics Co., Ltd.,  
Samsung Electronics America, Inc.,  
HTC Corporation, and  
HTC America, Inc.,

Petitioner

v.

Evolved Wireless LLC,

Patent Owner

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**PETITION FOR *INTER PARTES* REVIEW  
OF U.S. PATENT NO. 7,746,916**

Case No. IPR2016-01277

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**Mail Stop Patent Board**  
Patent Trial and Appeal Board  
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P.O. Box 1450  
Alexandria, VA 22313-1450

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**EXHIBITS**

- Ex. 1001 U.S. Patent No. 7,746,916 to Han, et al. (“the ‘916 patent”)
- Ex. 1002 Excerpts from the Prosecution History of the ‘916 Patent (“the Prosecution History”)
- Ex. 1003 Declaration of Jonathan Wells
- Ex. 1004 Curriculum Vitae of Jonathan Wells
- Ex. 1005 Definitions of terms “acquire,” “generate” and “by” in American Heritage® Dictionary of the English Language, Fourth Edition, Copyright © 2000 by Houghton Mifflin Harcourt Publishing Company
- Ex. 1006 U.S. Patent No. 8,340,232 to Ding *et al.* (“Ding”)
- Ex. 1007 U.S. Patent No. 7,599,327 to Zhuang *et al.* (“Zhuang327”)
- Ex. 1008 Excerpts from the Prosecution History of Zhuang327
- Ex. 1009 Popovic, “*Generalized chirp-like polyphase sequences with optimum correlation properties*”, IEEE Trans. On Information Theory, vol. 38, pp. 1406-1409, July 1992 (“Popovic”)
- Ex. 1010 Declaration of Mr. Gerard Grenier of IEEE
- Ex. 1011 U.S. Patent No. 8,116,195 to Hou *et al.* (“Hou”)
- Ex. 1012 U.S. Patent No. 7,426,175 to Zhuang *et al.* (“Zhuang175”)
- Ex. 1013 [Reserved]
- Ex. 1014 [Reserved]
- Ex. 1015 [Reserved]
- Ex. 1016 [Reserved]
- Ex. 1017 N. Abramson, “THE ALOHA SYSTEM—Another alternative for computer communications,” *Proceedings of the Fall Joint Computer Conference*, pp. 281-5, Nov. 1970

- Ex. 1018 3GPP TS 25.213 V6.4.0 (2005-09), “3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Spreading and modulation (FDD) (Release 6)”
- Ex. 1019 3GPP TS 25.211 V6.6.0 (2005-09), “3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Physical channels and mapping of transport channels onto physical channels (FDD) (Release 6)”
- Ex. 1020 D.C. Chu, “Polyphase codes with good periodic correlation properties,” *IEEE Trans. Information Theory*, vol. 18, pp. 531–532, July 1972
- Ex. 1021 3GPP TS 25.201 V3.0.0 (1999-10), “3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Physical layer - General description (3G TS 25.201 version 3.0.0)”
- Ex. 1022 3GPP TS 36.211 V8.0.0 (2007-09), “3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); Physical channels and modulation (Release 8)”
- Ex. 1023 “Defendants’ Preliminary Identification of Terms Needing Construction and Proposed Constructions,” from Case Nos. 15-542SLR-SRF, 15-543-SLR-SRF, 15-544-SLR-SRF, 15-545-SLR-SRF, 15-546-SLR-SRF, 15-547-SLR-SRF filed in N.D. Del.
- Ex. 1024 “Evolved Wireless’s Identification of Claim Terms and Proposed Constructions” from Case Nos. 15-542-SLR-SRF, 15-543-SLR-SRF, 15-544-SLR-SRF, 15-545-SLR-SRF, 15-546-SLR-SRF, 15-547-SLR-SRF filed in N.D. Del.
- Ex. 1025 IEEE 802.16-2004 Standard, entitled “*IEEE Standard for Local and Metropolitan Area Networks Part 16: Air Interface for Fixed Broadband Wireless Access Systems*” (“IEEE802.162004”)
- Ex. 1026 Declaration of Mr. David Ringle for IEEE802.16-2004
- Ex. 1027 U.S. Patent No. 7,400,573 to Sundstrom *et al.* (“Sundstrom”)

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