UNITED STATES PATENT AND TRADEMARK OFFICE ————— BEFORE THE PATENT TRIAL AND APPEAL BOARD —————

APPLE, INC., HTC CORPORATION, HTC AMERICA, INC., MICROSOFT CORPORATION, MICROSOFT MOBILE OY, MICROSOFT MOBILE INC., SAMSUNG ELECTRONICS CO., LTD., SAMSUNG ELECTRONICS AMERICA, INC., AND ZTE (USA) INC.,

Petitioner,

v.

EVOLVED WIRELESS LLC, Patent Owner.

Case IPR2016-01209¹
Patent 7,746,916 B2

PETITIONER'S REPLY TO PATENT OWNER'S RESPONSE

¹ IPR2016-01280 has been consolidated with this proceeding.



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I.	Introduction1	
II.	Claim Construction	
III.	Under the correct construction, Zhuang175 discloses the claimed "code sequence generator." [Grounds-1-4; claims 6-10]	
IV.	Even under EW's narrow construction, Zhuang175 discloses a base station i.e., a single device, that includes "a code sequence generator"	
V.	The '916 Patent's prosecution history further corroborates Zhuang175's disclosure of "a code sequence generator," irrespective of whether EW's construction is adopted	
VI.	The combination of Zhuang175 and Fukuta discloses the invention as a whole, and Petitioner has articulated sufficient reasons to support such a combination [Grounds-5-6; claims 6-10]	
VII.	Conclusion	



EXHIBIT LIST

APPLE-1001	U.S. Patent No. 7,746,916 to Han, et al. ("the '916 Patent")
APPLE-1002	Excerpts from the Prosecution History of the '916 Patent ("the Prosecution History")
APPLE-1003	Declaration of Jonathan Wells
APPLE-1004	Curriculum Vitae of Jonathan Wells
APPLE-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
APPLE-1006	U.S. Patent No. 8,340,232 to Ding et al. ("Ding")
APPLE-1007	U.S. Patent No. 7,599,327 to Zhuang et al. ("Zhuang175")
APPLE-1008	[Reserved]
APPLE-1009	Popovic, "Generalized chirp-like polyphase sequences with optimum correlation properties", IEEE Trans. On Information Theory, vol. 38, pp. 1406-1409, July 1992 ("Popovic")
APPLE-1010	Declaration of Mr. Gerard Grenier re Popovic
APPLE-1011	U.S. Patent No. 8,116,195 to Hou et al. ("Hou")
APPLE-1012	U.S. Patent No. 7,426,175 to Zhuang et al. ("Zhuang175")
APPLE-1013	U.S. Patent Publication No. 2007/0270273 to Fukuta et al. ("Fukuta")
APPLE-1014	Definitions of terms "circular shift" and "cyclic shift" in McGraw-Hill Dictionary of Scientific and Technical Terms, 6th Edition, Copyright © 2003
APPLE-1015	Certified English Translation of Korean Application No. 10-2005-0114306 filed November 28, 2005 (Publication No. 10-2007-0055845)
APPLE-1016	Certified English Translation of Korean application No. 10-2006-0062467 filed July 4, 2006 (Publication No. 10-2008-0004025)
APPLE-1017	N. Abramson, "THE ALOHA SYSTEM—Another alternative for computer communications," <i>Proceedings of the Fall Joint Computer Conference</i> , pp. 281-5, Nov. 1970



3GPP TS 25.213 V6.4.0 (2005-09), "3rd Generation Partnership APPLE-1018 Project; Technical Specification Group Radio Access Network; Spreading and modulation (FDD) (Release 6)" 3GPP TS 25.211 V6.6.0 (2005-09), "3rd Generation Partnership APPLE-1019 Project; Technical Specification Group Radio Access Network; Physical channels and mapping of transport channels onto physical channels (FDD) (Release 6)" D.C. Chu, "Polyphase codes with good periodic correlation APPLE-1020 properties," IEEE Trans. Information Theory, vol. 18, pp. 531– 532, July 1972 APPLE-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)" 3GPP TS 36.211 V8.0.0 (2007-09), "3rd Generation Partnership APPLE-1022 Project; Technical Specification Group Radio Access Network; Evolved Universal Terrestrial Radio Access (E-UTRA); Physical channels and modulation (Release 8)" "Defendants' Preliminary Identification of Terms Needing APPLE-1023 Construction 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. APPLE-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. IEEE 802.16-2004 Standard, entitled "IEEE Standard for Local **APPLE-1025** and Metropolitan Area Networks Part 16: Air Interface for Fixed Broadband Wireless Access Systems" ("IEEE802.16-2004") APPLE-1026 Declaration of Mr. David Ringle for IEEE802.16-2004 APPLE-1027 U.S. Patent No. 7,400,573 to Sundstrom et al. ("Sundstrom") "Joint Claim Construction Statement," filed on May 17th, 2016, APPLE-1028 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. U.S. Patent No. 7,701,919 to Ah Lee ("Ah Lee") APPLE-1029



APPLE-1030	U.S. Patent No. 7,693,924 Cho et al. ("Cho")
APPLE-1031	Motorola, Inc. 2004 Annual Report to Stockholders
APPLE-1032	WCDMA for UMTS: Radio Access for Third Generation Communications, Holma and Toskala, 3 rd ed, Wiley and Sons, Ltd., 2004
APPLE-1033	Declaration of Mr. Gerard Grenier for APPLE-1020 (Served, not filed)
APPLE-1034	Declaration of Mr. Mel DeSart for APPLE-1017 and APPLE-1032 (Served, not filed)
APPLE-1035	Definitions of terms "circuit" in The American Heritage® Science Dictionary Copyright © 2002. Published by Houghton Mifflin Harcourt Publishing Company



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