UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

LG ELECTRONICS INC.,

Petitioner,

v.

PANTECH CORPORATION,

Patent Owner.

Case IPR2023-01273

U.S. Patent No. 9,136,924

PETITIONER'S UPDATED LIST OF EXHIBITS

UPDATED LIST OF EXHIBITS

Exhibit ("Ex.")	Description
Ex. 1001	U.S. Patent No. 9,136,924 ("'924")
Ex. 1002	File History of U.S. Patent No. 9,136,924 ("'924FH")
Ex. 1003	Declaration of Dr. Bertrand Hochwald in Support of Petition for *Inter Partes* Review of U.S. Patent No. 9,136,924 ("Hochwald")
Ex. 1004	Declaration of Friedhelm Rodermund in Support of Petition for *Inter Partes* Review of U.S. Patent No. 9,136,924 ("Rodermund")
Ex. 1005	U.S. Patent App. Pub. 2011/0274188 ("Sayana")
Ex. 1006	U.S. Provisional App. No. 61/331,818 ("Sayana-Prov")
Ex. 1007	International Patent App. Pub. WO2010/050689 ("Lee-689")
Ex. 1008	LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); Physical layer procedures (3GPP TS 36.213 version 8.8.0 Release 8) ("TS36.213")
Ex. 1009	LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); Physical channels and modulation (3GPP TS 36.211 version 8.8.0 Release 8) ("TS36.211")
Ex. 1010	U.S. Patent App. Pub. 2013/0064129 ("Koivisto")
Ex. 1011	R1-102630, "Refinements of Feedback and Codebook Design," submitted by Ericsson for 3GPP Meeting WG1 #61 (May 10-14, 2010) ("Ericsson")
Ex. 1012	U.S. Patent App. Pub. 2011/0249713 ("Hammarwall")
Ex. 1013	U.S. Patent App. Pub. 2011/0305263 ("Jongren")
Ex. 1014	U.S. Patent App. Pub. 2011/0034192 ("Lim")

Exhibit ("Ex.")	Description
Ex. 1015	Third Amended Docket Control Order, *Pantech Corporation et al. v. LG Electronics Inc. et al.*, No. 5:22-cv-00113-RWS-JBB Dkt 98 (E.D. Tex.)
Ex. 1016	Docket Navigator "Time to Trial" report for Judge Robert W. Schroeder
Ex. 1017	Expert Report of Todor Cooklev, Ph.D. [Claim Construction] dated June 23, 2023
Ex. 1018	Joint Claim Construction and Prehearing Statement, *Pantech Corp. et al. v. LG Electronics Inc. et al.*, Case 5:22-cv-00113-RWS-JBB (E.D. Texas), Dkt. No. 118.
Ex. 1019	Redline Comparison between U.S. Patent App. Pub. 2011/0274188 and U.S. Provisional App. No. 61/331,818
Ex. 1020	International Patent App. Pub. WO2009/025619 ("Göransson-619")
Ex. 1021	U.S. Patent No. 9,078,236 ("Chun")
Ex. 1022	U.S. Patent No. 9,247,420 ("Jung")
Ex. 1023	U.S. Patent No. 9,083,411 ("Li")
Ex. 1024	U.S. Patent No. 7,369,511 ("Utsunomiya")
Ex. 1025	U.S. Patent No. 8,649,456 ("Xia")
Ex. 1026	Sesia, Stefania et al. LTE - The UMTS Long Term Evolution: From Theory to Practice. United Kingdom, Wiley, 2011.
Ex. 1027	Hui, Lin, and Wang Wen Bo. "Coordinated Beamforming technology in TD-LTE-Advanced system." 2010 International Conference on Communications and Mobile Computing. Vol. 2. IEEE, 2010.
Ex. 1028	USCourts.gov "U.S. District Court – Judicial Caseload Profile" for Eastern District of Texas
Ex. 1029	Declaration of Jonathan Bradford

Exhibit ("Ex.")	Description
Ex. 1030 to Ex. 1050	Reserved
Ex. 1051	Webpage, available at https://archive.org/legal/affidavit.php
Ex. 1052	Internet Archive Capture, available at https://web.archive.org/web/20110509054716/http://3gpp.org/Specification-Groups
Ex. 1053	Internet Archive Capture, available at https://web.archive.org/web/20090802220720/http://www.3gpp.org/
Ex. 1054	Internet Archive Capture, available at https://web.archive.org/web/20130812132958/http://3gpp.org/RAN1-Radio-layer-1
Ex. 1055	Internet Archive Capture, available at https://web.archive.org/web/20080917042036/http://www.3gpp.org/ftp/tsg_ran/WG1_RL1/
Ex. 1056	Internet Archive Capture, available at https://web.archive.org/web/20080803190713/http://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_55/
Ex. 1057	Webpage, available at https://www.3gpp.org/ftp/Specs
Ex. 1058	Internet Archive Capture, available at https://web.archive.org/web/20130110164645/http://www.3gpp.org/specifications
Ex. 1059	Internet Archive Capture, available at https://web.archive.org/web/20081201021150/http://www.3gpp.org/Specification-Numbering
Ex. 1060	Internet Archive Capture, available at https://web.archive.org/web/20081207063329/http://www.3gpp.org/ftp/Specs/html-info/36-series.htm

Exhibit ("Ex.")	Description
Ex. 1061	Internet Archive Capture, available at https://web.archive.org/web/20080612010911/http://www.3gpp.org/ftp/Specs/html-info/TSG-WG--r1.htm
Ex. 1062	Internet Archive Capture, available at https://web.archive.org/web/20081201145114/http://www.3gpp.org/ftp/specs/html-info/36213.htm
Ex. 1063	Internet Archive Capture, available at https://web.archive.org/web/20140326211003/http://3gpp.org/DynaReport/TSG-WG--R1.htm
Ex. 1064	Internet Archive Capture, available at https://web.archive.org/web/20140217112636/http://www.3gpp.org/DynaReport/36-series.htm
Ex. 1065	Internet Archive Capture, available at https://web.archive.org/web/20140326220443/http://3gpp.org/DynaReport/36213.htm
Ex. 1066	Internet Archive Capture, available at https://web.archive.org/web/20140326193752/http://3gpp.org/DynaReport/36211.htm
Ex. 1067	3GPP TS 36.211 V8.1.0 (2007-11), retrieved from https://web.archive.org/web/20140724150608/http://www.3gpp.org/ftp/Specs/archive/36_series/36.211/36211-810.zip (36211-810.doc in 36211-810.zip)
Ex. 1068	Internet Archive Capture, available at https://web.archive.org/web/20141014200927/http://www.3gpp.org/ftp/Specs/latest/Rel-8/
Ex. 1069	Internet Archive Capture, available at https://web.archive.org/web/20080706152214/http://www.3gpp.org/ftp/Specs/latest/Rel-8/36_series/
Ex. 1070	Reserved

Exhibit ("Ex.")	Description
Ex. 1071	Internet Archive Capture, available at https://web.archive.org/web/20190529145715/https://list.etsi.org/scripts/wa.exe?SUBED1=3gpp_tsg_ran_wg1&A=1
Ex. 1072	Webpage, available at https://www.3gpp.org/ftp/Specs/archive/36_series/36.213
Ex. 1073	Webpage, available at https://www.etsi.org/deliver/etsi_ts/136200_136299/136213/08.08.00_60/
Ex. 1074	ETSI TS 136 213 V8.8.0 (2009-10), retrieved from https://www.etsi.org/deliver/etsi_ts/136200_136299/136213/08.08.00_60/ts_136213v080800p.pdf
Ex. 1075	Internet Archive Capture, available at http://web.archive.org/web/20081201081622/http://www.3gpp.org/ftp/specs/archive/36_series/36.213/
Ex. 1076	Internet Archive Capture, available at http://web.archive.org/web/20140601044332/http://www.3gpp.org:80/ftp/specs/archive/36_series/36.213
Ex. 1077	3GPP TS 36.213 V8.8.0 (2009-09), retrieved from https://www.3gpp.org/ftp/specs/archive/36_series/36.213/36213-880.zip (36213-880.doc in 36213-880.zip)
Ex. 1078	Internet Archive Capture, available at https://web.archive.org/web/20081113150830/http://www.3gpp.org/ftp/Specs/
Ex. 1079	Internet Archive Capture, available at https://web.archive.org/web/20081013132648/http://www.3gpp.org/ftp/Specs/archive/
Ex. 1080	Internet Archive Capture, available at https://web.archive.org/web/20081012223857/http://www.3gpp.org/ftp/specs/archive/36_series/

Exhibit ("Ex.")	Description
Ex. 1081	Internet Archive Capture, available at https://web.archive.org/web/20140601044332/http://www.3gpp.org:80/ftp/specs/archive/36_series/36.213
Ex. 1082	Internet Archive Capture, available at https://web.archive.org/web/20081201231313/http://www.3gpp.org/ftp/Specs/latest
Ex. 1083	Internet Archive Capture, available at https://web.archive.org/web/20081208085335/http://www.3gpp.org:80/ftp/Specs/latest/Rel-8/
Ex. 1084	Internet Archive Capture, available at https://web.archive.org/web/20081209045248/http://www.3gpp.org/ftp/Specs/latest/Rel-8/36_series/
Ex. 1085	A. Müller and P. Frank, "Cooperative Interference Prediction for Enhanced Link Adaptation in the 3GPP LTE Uplink," 2010 IEEE 71st Vehicular Technology Conference (VTC), Taipei, Taiwan, 2010, pp. 1-5, doi: 10.1109/VETECS.2010.5493598, May 16-19, 2010
Ex. 1086	Webpage, available at https://ieeexplore.ieee.org/document/5493598
Ex. 1087	Webpage, available at https://www.3gpp.org/ftp/Specs/archive/36_series/36.211
Ex. 1088	Webpage, available at https://www.etsi.org/deliver/etsi_ts/136200_136299/136211/08.08.00_60/
Ex. 1089	ETSI TS 136 211 V8.8.0 (2009-10), retrieved from https://www.etsi.org/deliver/etsi_ts/136200_136299/136211/08.08.00_60/ts_136211v080800p.pdf
Ex. 1090	Webpage, available at https://web.archive.org/web/20170404095635/http://webapp.etsi.org/key/key.asp?full_list=y

Exhibit ("Ex.")	Description
Ex. 1091	Internet Archive Capture, available at https://web.archive.org/web/20140801181746/http://3gpp.org/ftp/specs/archive/36_series/36.211/
Ex. 1092	Internet Archive Capture, available at http://web.archive.org/web/20081201192809/http://www.3gpp.org/ftp/Specs/archive/36_series/36.211/
Ex. 1093	3GPP TS 36.211 V8.8.0 (2009-09), retrieved from https://www.3gpp.org/ftp/specs/archive/36_series/36.211/36211-880.zip (36211-880.doc in 36211-880.zip)
Ex. 1094	Internet Archive Capture, available at https://web.archive.org/web/20081201152358/http://www.3gpp.org/ftp/specs/html-info/36211.htm
Ex. 1095	Internet Archive Capture, available at https://web.archive.org/web/20140315022717/http://www.3gpp.org:80/DynaReport/36211.htm
Ex. 1096	Jae-Hyuk Lee, Jun-Ho Baek, Seung-Hoon Hwang and Byoung-Jo Choi, "On the selection of training sequence code pair for MIMO technology in 3GPP GERAN system," 2010 The 12th International Conference on Advanced Communication Technology (ICACT), Phoenix Park, February 7-10, 2010, pp. 537-540
Ex. 1097	Webpage, available at https://ieeexplore.ieee.org/document/5440406
Ex. 1098	Yanguang Liu, Wenjing Li, Heng Zhang and Weihao Lu, "Graph based automatic centralized PCI assignment in LTE," The IEEE symposium on Computers and Communications, Riccione, June 22-25, 2010, pp. 919-921, doi: 10.1109/ISCC.2010.5546812
Ex. 1099	Webpage, available at https://ieeexplore.ieee.org/document/5546812
Ex. 1100	Webpage, available at http://3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_61/Docs/
Ex. 1101	3GPP R1-102630, retrieved from https://list.etsi.org/scripts/wa.exe?A3=ind1005A&L=3GPP_TSG_RA

Exhibit ("Ex.")	Description
	N_WG1&E=base64&P=85459760&B=--_007_E4CE3BC64C3AB6488038754A0E419DE11C0173F846ESESSCMS0365e_&T=application%2Fx-zip-compressed;%20name=%22R1-102630.zip%22&N=R1-102630.zip&attachment=q&XSS=3 (R1-102630_refinements_of_fb_and_cb_design.doc in R1-102630.zip)
Ex. 1102	Webpage, available at https://list.etsi.org/scripts/wa.exe?A2=3GPP_TSG_RAN_WG1;a370e470.1005A&S=
Ex. 1103	Internet Archive Capture, available at https://web.archive.org/web/20100326093131/http://list.etsi.org/
Ex. 1104	Internet Archive Capture, available at https://web.archive.org/web/20120309181952/http://list.etsi.org:80/
Ex. 1105	Internet Archive Capture, available at https://web.archive.org/web/20140328154821/http://3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_61/Docs/
Ex. 1106	R1-102630, retrieved from https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_61/Docs/R1-102630.zip (R1-102630_refinements_of_fb_and_cb_design.doc in R1-102630.zip)
Ex. 1107	Draft Report of 3GPP TSG RAN WG1 #61 v0.1.0 (Montreal, Canada, 10th – 14th May, 2010), retrieved from https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_61/Report/Draft_ReportWG1%2361_v010.zip (Draft_ReportWG1#61_v010.doc in Draft_ReportWG1%2361_v010.zip)
Ex. 1108	Webpage, available at https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_61/Report
Ex. 1109	Excel file "Tdoclist_RAN1#61(May_2010).xls," retrieved from https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_61/Report/Draft_ReportWG1%2361_v010.zip

Exhibit ("Ex.")	Description
Ex. 1110	R1-103333, retrieved from https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_61/Docs/R1-103333.zip (R1-103333_refinements_of_fb_and_cb_design.doc in R1-103333.zip)
Ex. 1111	Redline comparing disclosures of R1-102630 and R1-103333.
Ex. 1112	Patent Application No. 13/698,419
Ex. 1113	Excel file "3gppRAN1_61.xls," retrieved from https://www.3gpp.org/ftp/tsg_ran/WG1_RL1/TSGR1_61/Report/Final_ReportWG1%2361_v300.zip
Ex. 1114	Transcript of November 1, 2023 Call with the Board
Ex.1115-1199	(Reserved)
Ex. 1200	Proposed Protective Order
Ex. 1201	Declaration of Hojun Suh (Confidential)
Ex. 1202	Declaration of Soo Hong (Confidential)
Ex. 1203	U.S. Patent No. 9,313,809
Ex. 1204	U.S. Patent No. 9,575,631
Ex. 1205	U.S. Patent No. 9,854,545
Ex. 1206	U.S. Patent No. 10,869,247
Ex. 1207	U.S. Patent No. 9,065,486
Ex. 1208	(Reserved—*See* Ex. 1001)
Ex. 1209	*Pantech Corp. v. LG Electronics Inc.*, Case No. 5:22-cv-00113 (E.D. Tex.), Dkt. 182 (Order Regarding LGE's Motion for Disqualification) (Public Version)

Exhibit ("Ex.")	Description
Ex. 1210	*Pantech Corp. v. LG Electronics Inc.*, Case No. 5:22-cv-00113 (E.D. Tex.), Dkt. 1 (*Pantech* Complaint)
Ex. 1211	*Pantech Corp. v. LG Electronics Inc.*, Case No. 5:22-cv-00113 (E.D. Tex.), Dkt. 60-1 (Second Declaration of Jamie B. Beaber in Support of Plaintiff's Opposition to Defendants' Motion to Disqualify Mayer Brown) (Confidential)
Ex. 1212	*Pantech Corp. v. LG Electronics Inc.*, Case No. 5:22-cv-00113 (E.D. Tex.), Dkt. 40 (Defendants' Motion to Disqualify Mayer Brown LLP) (Public Version)
Ex. 1213	*Pantech Corp. v. LG Electronics Inc.*, Case No. 5:22-cv-00113 (E.D. Tex.), Dkt. 40 (Magistrate Order Regarding LGE's Motion for Disqualification) (Public Version)
Ex. 1214	*In re LG Electronics Inc. and LG Electronics U.S.A., Inc.*, Case No. 23-148 (Fed. Cir.), Dkt. 8-1 (LG Electronics Inc. and LG Electronics U.S.A., Inc.'s Petition For Writ Of Mandamus) (Public Version)
Ex. 1215	*Pantech Corp. v. LG Electronics Inc.*, Case No. 5:22-cv-00113 (E.D. Tex.), Dkt. 15-28 (*Jenam* Agreement) (Confidential)
Ex. 1216	*Pantech Corp. v. LG Electronics Inc.*, Case No. 5:22-cv-00113 (E.D. Tex.), Dkt. 56 (Plaintiffs' Opposition to Defendants' Motion to Disqualify Mayer Brown LLP) (Public Version)
Ex. 1217	*Cellular Comm's. Equip. v. LG Electronics, Inc.*, 6:14-cv-00982 (E.D. Tex.), Dkt. 1 (*CCE* 982 Complaint)
Ex. 1218	*Cellular Comm's. Equip. v. LG Electronics, Inc.*, 6:13-cv-00508 (E.D. Tex.), Dkt. 1 (*CCE* 508 Complaint)
Ex. 1219	*Cellular Comm's. Equip. v. LG Electronics, Inc.*, 6:13-cv-00507 (E.D. Tex.), Dkt. 442-6 (*CCE* Infringement Contentions for U.S. Patent No. 6,819,923)

Exhibit ("Ex.")	Description
Ex. 1220	*Cellular Comm's. Equip. v. LG Electronics, Inc.*, 6:14-cv-00982 (E.D. Tex.), Dkt. 147-9 (*CCE* Infringement Contentions for U.S. Patent No. 8,848,556)
Ex. 1221	*Core Wireless Licensing v. LG Electronics, Inc.*, No. 2:14-cv-00911 (E.D. Tex.), Dkt. 1 (*Core Wireless* 911 Complaint)
Ex. 1222	*Core Wireless Licensing v. LG Electronics, Inc.*, No. 2:14-cv-00912 (E.D. Tex.), Dkt. 1 (*Core Wireless* 912 Complaint)
Ex. 1223	*Core Wireless Licensing v. LG Electronics, Inc.*, No. 2:14-cv-00911 (E.D. Tex.), Dkt. 13 (*Core Wireless* 911/912 Consolidation Order)
Ex. 1224	*Core Wireless Licensing v. LG Electronics, Inc.*, No. 2:14-cv-00911 (E.D. Tex.), Dkt. 363 (*Core Wireless* Proposed Joint Pretrial Order)
Ex. 1225	*Core Wireless Licensing v. LG Electronics, Inc.*, No. 2:14-cv-00911 (E.D. Tex.), Dkt. 232 (*Core Wireless* Appearance of Jamie B. Beaber)
Ex. 1226	*Mobile Tele. Tech. v. LG Electronics, Inc.*, No. 2:13-cv-00947 (E.D. Tex.), Dkt. 20 (*MTT* Complaint)
Ex. 1227	U.S. Patent No. 8,713,476
Ex. 1228	U.S. Patent No. 6,978,143
Ex. 1229	U.S. Patent No. 6,477,151
Ex. 1230	U.S. Patent No. 8,848,556
Ex. 1231	U.S. Patent No. 6,091,717
Ex. 1232	U.S. Patent No. 8,055,820
Ex. 1233	U.S. Patent No. 7,764,966
Ex. 1234	U.S. Patent No. 7,804,850
Ex. 1235	U.S. Patent No. 8,434,020

Exhibit ("Ex.")	Description
Ex. 1236	U.S. Patent No. 6,094,426
Ex. 1237	U.S. Patent No. 7,215,962
Ex. 1238	U.S. Patent No. 5,809,428
Ex. 1239	U.S. Patent No. 6,266,321
Ex. 1240	U.S. Patent No. 6,778,521
Ex. 1241	*Cellular Comm's. Equip. v. LG Electronics, Inc.*, 6:13-cv-00507 (E.D. Tex.), Dkt. 442-1 (*CCE* Infringement Contentions)
Ex. 1242	*Mobile Tele. Tech. v. LG Electronics, Inc.*, No. 2:13-cv-00947 (E.D. Tex.) Docket Sheet
Ex. 1243	*Cellular Comm's. Equip. v. LG Electronics, Inc.*, 6:16-cv-00365 (E.D. Tex.), Dkt. 2 (*CCE* 365 Complaint)
Ex. 1244	*Cellular Comm's. Equip. v. LG Electronics, Inc.*, 6:13-cv-00508 (E.D. Tex.) Docket Sheet Excerpt
Ex. 1245	*Cellular Comm's. Equip. v. LG Electronics, Inc.*, 6:14-cv-00982 (E.D. Tex.) Docket Sheet Excerpt
Ex. 1246	*Cellular Comm's. Equip. v. LG Electronics, Inc.*, 6:16-cv-00365 (E.D. Tex.), Docket Sheet Excerpt
Ex. 1247	*Core Wireless Licensing v. LG Electronics, Inc.*, No. 2:14-cv-00911 (E.D. Tex.) Docket Sheet Excerpt
Ex. 1248	LGE Emails (Confidential – Privileged)
Ex. 1249	*Jenam Tech, L.L.C. v. LG Electronics, Inc.*, No. 4:19-cv-00249 (E.D. Tex.), Dkt 1 (*Jenam* Complaint)
Ex. 1250	*Jenam Tech, L.L.C. v. LG Electronics, Inc.*, No. 4:19-cv-00249 (E.D. Tex.) Docket Sheet Excerpt

Exhibit ("Ex.")	Description
Ex. 1251	LGE-Pantech Emails from 2021-04-01 to 2021-05-06 (Translated) (Confidential)
Ex. 1252	LGE-Mayer Brown Emails on 2015-06-04 (Confidential)
Ex. 1253	*CCE* Production Metadata (Confidential)
Ex. 1254	LGE-Mayer Brown Emails from 2015-09-09 to 2015-11-06 (Confidential)
Ex. 1255	*CCE* Source Code Production Data (Confidential)
Ex. 1256	LGE-Mayer Brown Emails from 2020-01-24 to 2020-01-29 (Confidential)
Ex. 1257	*Jenam* Production Metadata (Confidential)
Ex. 1258	*Pantech* Preliminary Infringement Contentions of U.S. Patent No. 9,575,631
Ex. 1259	*Pantech* Preliminary Infringement Contentions of U.S. Patent No. 9,854,545
Ex. 1260	*Pantech* Preliminary Infringement Contentions of U.S. Patent No. 9,313,809
Ex. 1261	*Pantech* Preliminary Infringement Contentions of U.S. Patent No. 9,065,486
Ex. 1262	*Pantech* Preliminary Infringement Contentions of U.S. Patent No. 9,136,924
Ex. 1263	U.S. Patent No. 6,775,548
Ex. 1264	U.S. Patent No. 5,946,320

Respectfully submitted,

Dated: November 21, 2023

By: */James. L. Davis, Jr./*
Name: James. L. Davis, Jr.
Counsel for Petitioner
LG ELECTRONICS INC.

CERTIFICATE OF SERVICE

The undersigned certifies that the foregoing PETITIONER'S UPDATED LIST OF EXHIBITS and EXHIBITS 1200-1264 was served in its entirety by filing through the Patent Trial and Appeal Case Tracking System (P-TACTS), as well as providing a courtesy copy via e-mail to the following attorneys of record for the Patent Owner listed below:

Lead Counsel	Back-Up Counsel
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Dated: November 21, 2023

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