

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

SAMSUNG ELECTRONICS CO., LTD.;
SAMSUNG ELECTRONICS AMERICA, INC.,
Petitioner

v.

EMPIRE TECHNOLOGY DEVELOPMENT LLC,
Patent Owner.

Case No. IPR2024-00897
U.S. Patent No. 8,565,331

PETITIONER'S UPDATED LIST OF EXHIBITS

LIST OF EXHIBITS¹

Ex. No.	Description
Ex-1001	U.S. Patent No. 8,565,331 (“the ’331 Patent”)
Ex-1002	Declaration of Dr. Matthew C. Valenti
Ex-1003	Curriculum Vitae of Dr. Matthew C. Valenti
Ex-1004	Prosecution History of the ’331 Patent (Application No. 12/999,029)
Ex-1005	European Patent Application Publication No. EP 2114029 (“Haustein”)
Ex-1006	U.S. Patent App. Pub. No. 2008/0222482 (“Ban”)
Ex-1007	U.S. Patent App. Pub. No. 2002/0003774 (“Wang”)
Ex-1008	L. Tang & M. A. Abu-Rgheff, <i>Joint Pilot-Aided and Blind Decision-Directed Channel Estimation for MIMO-OFDM System</i> , The 18th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (2007) (“Tang”)
Ex-1009	INTENTIONALLY LEFT BLANK
Ex-1010	INTENTIONALLY LEFT BLANK
Ex-1011	INTENTIONALLY LEFT BLANK
Ex-1012	INTENTIONALLY LEFT BLANK
Ex-1013	INTENTIONALLY LEFT BLANK
Ex-1014	INTENTIONALLY LEFT BLANK
Ex-1015	INTENTIONALLY LEFT BLANK
Ex-1016	INTENTIONALLY LEFT BLANK

¹ Four-digit pin citations that begin with 0 are to the branded numbers added by Samsung in the bottom right corner of the exhibits. All other pin citations are to original page, column, paragraph, or line numbers.

Ex. No.	Description
Ex-1017	INTENTIONALLY LEFT BLANK
Ex-1018	INTENTIONALLY LEFT BLANK
Ex-1019	INTENTIONALLY LEFT BLANK
Ex-1020	Claim Mapping Table
Ex-1021	<i>Empire Technology Development LLC v. Samsung Electronics Co., Ltd., et al.</i> , Case No. 2-23-cv-00427, Infringement Contentions (E.D. Tex. Jan. 4, 2024).
Ex-1022	Declaration of Gordon Macpherson dated Apr. 27, 2024 (Institute of Electrical and Electronics Engineers, Incorporated)
Ex-1023	Siavash M. Alamouti, <i>A Simple Transmit Diversity Technique for Wireless Communications</i> , IEEE Journal on Select Areas in Communications, Vol. 16, No. 8, Oct. 1998.
Ex-1024	U.S. Patent No. 8,126,408 (“Ahrony”)
Ex-1025	Andreas F. Molisch, <i>Wireless Communications</i> , IEEE (2 nd ed.)
Ex-1026	Tzi-Dar Chiueh and Pei-Yun Tsai, <i>OFDM Baseband Receiver Design for Wireless Communications</i>
Ex-1027	Andre Antonio dos Anjos et al., <i>Channel Estimation on MIMO-OFDM Systems</i>
Ex-1028	Anna Zhuang and Markku Renfors, <i>Combined Pilot Aided and Decision Directed Channel Estimation For The RAKE Receiver</i>
Ex-1029	Arogyaswami Paulraj et al., <i>Introduction to Space-Time Wireless Communications</i>
Ex-1030	F. Tufvesson and T Maseng, <i>Pilot assisted channel estimation for OFDM in mobile cellular systems</i> , IEEE (2006)

Ex. No.	Description
Ex-1031	Alexandre Rodrigues Mesquita et al., <i>Redundant Data and Transmission in Control/Estimation Over Wireless Networks: Extended Version</i>
Ex-1032	U.S. Patent No. 7,039,001 (“Krishnan”)
Ex-1033	U.S. Patent App. Pub. No. 2008/0192842 (“Fei”)
Ex-1034	Matthew C. Valenti and Brian D. Woerner, <i>Iterative Channel Estimation and Decoding of Pilot Symbol Assisted Turbo Codes Over Flat-Fading Channels</i> , IEEE Journal on Selected Areas in Communications (2001)
Ex-1035	Ahmad R. S. Bahai, Burton R. Saltzberg, and Mustafa Ergen, <i>Multi-Carrier Digital Communications: Theory and Applications of OFDM Second Edition</i> (Springer 2004)
Ex-1036	Defendants Samsung’s Elecs. Co., Ltd. and Samsung Elecs. Am., Inc.’s Stipulation Regarding Invalidity Challenges in <i>Empire Technology LLC v. Samsung Elecs. Co., Ltd. et al.</i> , Case No. 2:23-cv-00427-JRG (E.D. Tex.) (Dkt. 44)

Dated: October 3, 2024

Respectfully submitted,

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CERTIFICATE OF SERVICE

I hereby certify that on October 3, 2024, I caused a true and correct copy of the foregoing PETITIONER'S UPDATED LIST OF EXHIBITS to be served electronically on counsel for Patent Owner at the following addresses:

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