UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

Samsung Electronics Co., Ltd.,
Samsung Electronics America, Inc.,
Samsung Semiconductor, Inc., and
Samsung Austin Semiconductor, LLC.,
Petitioner

v.

Chien-Min Sung,
Patent Owner

Case IPR2024-00533

U.S. Patent No. 8,974,270

PETITIONER SAMSUNG'S
UPDATED TABLE OF EXHIBITS

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TABLE OF EXHIBITS

Petitioner Exhibit No.	DESCRIPTION
1001	U.S. Patent No. 8,974,270 ("'270 Patent")
1002	Declaration of Dr. Stanley Shanfield
1003	File History of the '270 Patent
1004	U.S. Patent Application Publication No. 2010/0022174 ("Chou")
1005	U.S. Patent Application Publication No. 2008/0096479 ("Sung'479")
1006	U.S. Patent Application Publication No. 2008/0004743 ("Goers")
1007	Sung et al. "Polycrystalline Diamond (PCD) Shaving Dresser: The Ultimate Diamond Disk (UDD) for CMP Pad Conditioning," *ECS Transactions*, 18 (1) 523-528 (2009) ("SungECS")
1008	U.S. Patent No. 5,036,015
1009	Ishizuka et al. "PCD Dressers for Chemical Mechanical Planarization with Uniform Polishing" Proceedings of International Conference on Leading Edge Manufacturing in 21st Century: LEM21, 2007, Volume 2007.4
1010	U.S. Patent Application Publication No. 2003/0084894
1011	U.S. Patent No. 7,741,764
1012	Scheduling Order in *Sung v. Samsung Electronics Co., Ltd. et al*, 4-23-cv-00752
1013	Tsai et al., "Effect of CMP conditioner diamond shape on pad topography and oxide wafer performances," *Int. J. Adv. Manuf. Technology*, 55: 253-262 (2011)
1014	Fenna, Donald. "Hardness Numbers," *A Dictionary of Weights, Measures, and Units*, 1st ed., Oxford University Press, 2004.
1015	A copy of SungECS obtain from CCC RightFind
1016	Proceedings of *ISTC/CSTIC 2009*, published by the Electrochemical Society, obtained from the Electrochemical Society
1017	WorldCat record for *ISTC/CSTIC 2009*, available at https://search.worldcat.org/title/426038995; Bibliographic and MARC records for the electronic version of *ISTC/CSTIC 2009*, available at http://merlin.lib.umsystem.edu/record=b7054493~S1 from the online catalog of the library of the University of Missouri, Columbia; and OCLC FirstSearch record for *ISTC/CSTIC 2009* (subscription required for access)

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1018	MERLIN, Missouri Education and Research Libraries Information Network, The catalogs of the libraries of the University of Missouri system, archived on January 12, 2011, by Internet Archive, available at https://web.archive.org/web/20110112054807/http://laurel.lso.missouri.edu/
1019	Declaration of Dr. Ingrid Hsieh-Yee
1020	EDTX Caseload Profile (December 31, 2023)
1021	*Chien-Min Sung v. Samsung Electronics Co. Ltd., et al.*, Case No. 4:23-cv-00752 (E.D. Tex.), 82 (Order to Stay Pending Motion for Inter-District Transfer)
1022	*Chien-Min Sung v. Samsung Electronics Co. Ltd., et al.*, Case No. 4:23-cv-00752 (E.D. Tex.), 37 (February 14, 2024 Scheduling Order)
1023	*Chien-Min Sung v. Texas Instruments Inc.*, Case No. EDTX-4-23-cv-00753 (E.D. Tex.), 26 (TI's Motion for Summary Judgment of Invalidity)
1024	*Chien-Min Sung v. Texas Instruments Inc.*, Case No. EDTX-4-23-cv-00753 (E.D. Tex.), 68 (Order To Stay the Case Pending Resolution of TI's Motion for Summary Judgment).
1025	*Chien-Min Sung v. Samsung Electronics Co. Ltd., et al.*, Case No. 4:23-cv-00752 (E.D. Tex.), 56 (Motion to Stay Pending Resolution of Texas Instruments Incorporated's Motion for Summary Judgment)
1026	*Chien-Min Sung v. Samsung Electronics Co. Ltd., et al.*, Case No. 4:23-cv-00752 (E.D. Tex.), 72 (Plaintiff's Sur-reply)
1027	*Chien-Min Sung v. Samsung Electronics Co. Ltd., et al.*, Case No. 4:23-cv-00752 (E.D. Tex.), 43 (Notice Of Intent To File A Motion To Stay Pending Inter Partes Review)
1028	*Chien-Min Sung v. Samsung Electronics Co. Ltd., et al.*, Case No. 4:23-cv-00752 (E.D. Tex.), 56 (Motion To Stay Pending Resolution of TI MSJ)
1029	*Chien-Min Sung v. Samsung Electronics Co. Ltd., et al.*, Case No. 4:23-cv-00752 (E.D. Tex.), 62 (Plaintiff's Opposition to MTS Pending Resolution of TI MSJ)
1030	*Chien-Min Sung v. Samsung Electronics Co. Ltd., et al.*, Case No. 4:23-cv-00752 (E.D. Tex.), 67 (Defendant's Reply)

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1031	*Chien-Min Sung v. Samsung Electronics Co. Ltd., et al.*, Case No. 4:23-cv-00752 (E.D. Tex.), 72 (Plaintiff's Sur-Reply)
1032	*In re: Chien-Min Sung Subpoena Upon 3M Company,* Case No. 0:2023mc00104 (D. Minnesota), 1 (3M's Nov. 16, 2023 Motion To Quash Subpoena In The District of Minnesota)
1033	*In re: Chien-Min Sung Subpoena Upon 3M Company,* Case No. 0:2023mc00104 (D. Minnesota), 15 (Dr. Sung's Nov. 22, 2023 Cross-Motion To Compel And Motion For Sanctions)
1034	*In re: Chien-Min Sung v. 3M Company*, Case No. 6:23-mc-00002 (N.D. Tex.), 1 (Dr. Sung's Nov. 27, 2023 Motion To Compel In The Northern District of Texas)
1035	*In re: Chien-Min Sung Subpoena Upon 3M Company,* Case No. 0:2023mc00104 (D. Minnesota), 38 (Court Entry Showing A Discovery Hearing Before The Court In The District Of Minnesota)
1036	Judge Jordan's Time To Order Motion of Summary Judgement Statistics
1037	Single Diamond Dressing Characteristics of CMP Polyurethane Pad" *Key Engineering Materials* Vol 329 (2007) pp 151-156
1038	U.S. Patent No. 9,138,862 ("'862 Patent")
1039	U.S. Patent No. 9,724,802 ("'802 Patent")
1040	EX2011 in IPR2024-00535 Declaration of Ming-Yi Tsai (EX2011 in '802 Patent)
1041	EX2011 in IPR2024-00534 Declaration of Ming-Yi Tsai (EX2011 in '862 Patent)
1042	PCD Pad Conditioners for Low Pressure Chemical Mechanical Planarisation of Semiconductors" *Int. J. Abrasive Technology*, Vol. 1, Nos. 3/4, 2008
1043	"Novel diamond conditioner dressing characteristics of CMP polishing pad" *International Journal of Machine Tools & Manufacture* 49 (2009) 722–729
1044	"Dressing Behaviors of PCD Conditioners on CMP Polishing Pads" *Advanced Materials Research* Vols 76-78 (2009) pp 201-206
1045	"Mosaic Diamond Pad Conditioners for Improved CMP Performance" *ECS Transactions*, 27 (1) 575-580 (2010)
1046	"The Black Pad with Graphite Impregnation for CMP" *ECS Transactions*, 27 (1) 581-586 (2010)

Petitioner Exhibit No.	DESCRIPTION
1047	"The CMP by Polishing with GiP Dressed by BODD" *Advanced Materials Research* Vols 126-128 (2010) pp 1013-1018
1048	"Organic diamond disk versus brazed diamond disk for dressing a chemical–mechanical polishing pad" Diamond & Related Materials 23 (2012) 144–149
1049	"Development of a novel cooling system-assisted minimum quantity lubrication method for improvement of milling performance" *Journal of the Chinese Institute of Engineers*, 2015, Vol. 38, No. 3, 322–331
1050	Deposition of Dr. Tsai in IPR2024-00533, Vol I
1051	Deposition of Dr. Tsai in IPR2024-00533, Vol II
1052	U.S. Patent Application Publication No. 2010/0248595 ("Dinh-Ngoc")
1053	U.S. Application No. 11/223,786 ('786 Application)
1054-1069	*RESERVED*
1070	Petitioner's Demonstratives for Oral Argument

Dated: June 16, 2025

Respectfully submitted,

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CERTIFICATE OF SERVICE

Pursuant to 37 C.F.R. § 42.6(e), the undersigned certifies that on June 16, 2025, a complete copy of Petitioner's Updated Table of Exhibits and EX1070 – Petitioner's Demonstratives were served on counsel of record for the Patent Owner by filing the documents through P-TACTS and by sending via electronic mail to the following addresses:

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