UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY, LTD., Petitioner,

V.

GODO KAISHA IP BRIDGE 1, Patent Owner.

Case IPR2016-01246¹ Patent 7,126,174 B2

PETITIONER'S MOTION TO EXCLUDE EVIDENCE UNDER 37 C.F.R. § 42.64(c)

¹ Case IPR2016-01247 has been consolidated with this proceeding.



TABLE OF CONTENTS

I.	Introduction		
II.	The Board should exclude paragraphs 33–159 of Patent Owner's Exhibit 2001, paragraphs 33–149 of Patent Owner's Exhibit 2011, and paragraphs 4–10 and 35–458 of Patent Owner's Exhibit 2012 as unreliable expert testimony.		3
III.	The Board should exclude in their entirety Patent Owner's Exhibits 2002–2010, 2013–2019, 2026–2030, 2032, and 2033 as irrelevant and non-probative evidence.		
	A.	Exhibits 2002, 2003, 2004, 2032, and 2033	6
	B.	Exhibits 2005, 2006, 2007, 2008, 2009, and 2010	7
	C.	Exhibits 2013, 2014, 2015, 2016, 2017, 2018, and 2019	9
	D.	Exhibit 2026	10
	E.	Exhibits 2027, 2028, 2029, and 2030	11
IV.	The Board should exclude in their entirety Patent Owner's Exhibits 2003, 2004, and 2026 as hearsay.		12
	A.	Exhibits 2003 and 2004.	12
	B	Exhibit 2026	12



I. Introduction

For the reasons discussed below, Petitioner TSMC hereby moves to exclude the following evidence under 37 C.F.R. § 42.64(c):

Exhibit	Description
2001	Declaration of Dr. E. Fred Schubert, Ph.D. in support of Patent Owner's
2001	Preliminary Response filed in IPR2016-01246 on October 5, 2016
	Schematic illustration of the Chemical Mechanical Polishing process
2002	from Steigerwald, Murarka, and Gutmann, Chemical Mechanical
	Planarization of Microelectronic Materials (1997).
	Schematic illustration of the Chemical Mechanical Polishing process
2003	from the Motorola Company. SCSolutions.com. Accessed September
2003	30, 2016. http://www.scsolutions.com/chemical-
	mechanicalplanarization-cmp-controllers-0
	Photograph of a Chemical Mechanical Polishing Tool from the Applied
	Materials Company. BusinessWire.com. Accessed October 5, 2016.
2004	http://www.businesswire.com/news/home/20040711005007/en/Applied-
	Materials-Revolutionizes-Planarization-Technology-Breakthrough-
	Reflexion
2005	Troxel, Boning, McIlrath "Semiconductor Process Representation."
	Wiley Encyclopedia of Electrical and Electronics, pp. 139 –147 (1999).
2006	U.S. Patent No. 6,052,319 to Jacobs
2007	U.S. Patent No. 6,952,656 to Cordova et al.
	Hunt, "Low Budget Undergraduate Microelectronics Laboratory."
2008	University Government Industry Microelectronics Symposium, pp. 81-87
2000	(2006).
2009	U.S. Patent No. 7,074,709 to Young
2010	Burckel, "3D-ICs created using oblique processing." Advances in
	Patterning Materials and Processes XXXIII, pp. 1–12 (2016).
2011	Declaration of Dr. E. Fred Schubert, Ph.D. in support of Patent Owner's
	Preliminary Response filed in IPR2016-01247 on October 7, 2016
2012	Declaration of Dr. E. Fred Schubert, Ph.D. in support of Patent Owner's
	Response filed in IPR2016-01246 on March 24, 2017.
2012	Thompson, L. F. "An Introduction to Lithography." <i>Introduction to</i>
2013	Microlithography, ACS Symposium Ser., American Chemical Society,
2014	pp. 1–13 (1983).
2014	CA1275846 C to Roland et al.



Exhibit	Description
2015	U.S. Patent No. 5,314,843 to Yu et al.
2016	U.S. Patent No. 5,231,306 to Meikle et al.
2017	U.S. Patent No. 4,529,621 to Ballard.
2018	U.S. Patent No. 5,310,624 to Ehrlich.
2019	U.S. Patent No. 5,097,422 to Corbin, II et al.
2021	U.S. Patent No. 4,952,524 to Lee et al.
2026	"Structural Analysis Sample Report" downloaded from https://www.chipworks.com/TOC/Structural_Analysis_Sample_Report. pdf (2008).
2027	U.S. Patent No. 4,776,922 to Bhattacharyya et al.
2028	Subbanna, S.; Ganin, E.; Crabbé, E.; Comfort, J.; Wu, S.; Agnello, P.; Martin, B.; McCord, M.; Newman, H. Ng. T.; McFarland, P.; Sun, J.; Snare, J.; Acovic, A.; Ray, A.; Gehres, R.; Schulz, R.; Greco, S.; Beyer, K.; Liebmann, L.; DellaGuardia, R.; Lamberti, A. "200 mm Process Integration for a 0.15 µm Channel-Length CMOS Technology Using Mixed X-Ray / Optical Lithography." <i>Proceedings of 1994 IEEE International Electron Devices Meeting</i> , pp. 695–698 (1994).
2029	Chung, J.; Jeng, MC.; Moon, J.E.; Wu, A.T.; Chan, T.Y.; Ko, P.K.; Hu, Chenming. "Deep-Submicrometer MOS Device Fabrication Using a Photoresist-Ashing Technique." <i>IEEE Electron Device Letters</i> , Vol. 9. No. 4, pp. 186–188 (1988).
2030	Tanaka, Tetsu; Suzuki, Kunihiro; Horie, Hiroshi; Sugii, Toshihiro. "Ultrafast Low-Power Operation of p+-n+ Double-Gate SOI MOSFETS." 1994 Symposium on VLSI Technology Digest of Technical Papers, pp. 11–12 (1994).
2032	Kaufman, F. B.; Thompson, D. B.; Broadie, R. E.; Jaso, M. A.; Guthrie, W. L.; Pearson, D. J.; and Small, M. B. "Chemical-Mechanical Polishing for Fabricating Patterned W Metal Features as Chip Interconnects." <i>Journal of The Electrochemical Society</i> , Vol. 138, No. 11, pp. 3460–3465 (1991).
2033	Landis, H.; Burke, P.; Cote, W.; Hill, W.; Hoffman, C.; Kaanta, C.; Koburger, C.; Lange, W.; Leach, M.; and Luce, S. "Integration of chemical-mechanical polishing into CMOS integrated circuit manufacturing." <i>Thin Solid Films</i> , Vol. 220, No. 1–2, pp. 1–7 (1992).



II. The Board should exclude paragraphs 33–159 of Patent Owner's Exhibit 2001, paragraphs 33–149 of Patent Owner's Exhibit 2011, and paragraphs 4–10 and 35–458 of Patent Owner's Exhibit 2012 as unreliable expert testimony.

The Board should exclude paragraphs 33–159 of Patent Owner's Exhibit 2001, paragraphs 33–149 of Patent Owner's Exhibit 2011, and paragraphs 4–10 and 35–458 of Exhibit 2012 because they contain unreliable testimony under Fed. R. Evid. 702 and *Daubert v. Merrell Dow Pharm., Inc.*, 509 U.S. 579 (1993). Petitioner objected to Exhibits 2001 and 2011 in objections dated January 19, 2017. Paper 13, at 2–3. Petitioner objected to Exhibit 2012 in objections dated March 31, 2017. Paper 16, at 3–4. Patent Owner relies extensively on Exhibits 2001 and 2011 throughout its Preliminary Response (Paper 7), and relies extensively on Exhibit 2012 throughout its Response (Paper 14).

Under Rule 702, an expert must be qualified in the area about which he testifies. "[T]he expert's scientific, technical, or other specialized knowledge [must] help the trier of fact to understand the evidence or to determine a fact in issue." Fed. R. Evid. 702(a). Because Dr. Schubert is not qualified to opine on shallow trench isolation in silicon MOSFET devices, the Board should not consider the opinions he expressed in paragraphs 33–159 of Patent Owner's Exhibit 2001, paragraphs 33–149 of Patent Owner's Exhibit 2011, or paragraphs 4–10 and 35–458 of Exhibit 2012.



DOCKET

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

