

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 IPR2016-01249
Patent 6,538,324

PETITIONER'S UPDATED EXHIBIT LIST

Further to 37 C.F.R. § 42.63(e), Petitioner, Taiwan Semiconductor

Manufacturing Company, Ltd.'s, hereby submits a current listing of exhibits filed with the Board and counsel for Patent Owner.

Exhibit No.	Description	Previously Submitted
1001	U.S. Patent No. 6,538,324 to Tagami et al.	x
1002	File History of U.S. Patent No. 6,538,324.	x
1003	Expert Declaration of Dr. Sanjay Kumar Banerjee.	x
1004	U.S. Patent No. 5,893,752 to Zhang et al.	x
1005	U.S. Patent No. 6,887,353 to Ding et al.	x
1006	Holloway et al., "Tantalum as a diffusion barrier between copper and silicon: Failure mechanism and effect of nitrogen additions," Journal of Applied Physics, 71(11), 5433-5444 (1992).	x
1007	Sun et al., "Properties of reactively sputter-deposited Ta-N thin films," Thin Solid Films, 236 (1993) 347-351.	x
1008	U.S. Patent No. 5,858,873 to Vitkavage et al.	x
1009	U.S. Patent No. 5,668,411 to Hong et al.	x
1010	Excerpt of El-Kareh, "Fundamentals of Semiconductor Processing Technologies," Kluwer Academic Publishers (1995).	x
1011	Declaration of Dr. Li Jiang.	x
1012	Library of Congress Catalog Record of Holloway et al., "Tantalum as a diffusion barrier between copper and silicon: Failure mechanism and effect of nitrogen additions," Journal of Applied Physics, 71(11), 5433-5444 (1992).	x
1013	Library of Congress Catalog Record of Sun et al., "Properties of reactively sputter-deposited Ta-N thin films," Thin Solid Films, 236 (1993) 347-351.	x
1014	Library of Congress Catalog Record of El-Kareh, "Fundamentals of Semiconductor Processing Technologies," Kluwer Academic Publishers (1995).	x

Exhibit No.	Description	Previously Submitted
1015	Stavrev et al., "Crystallographic and morphological characterization of reactively sputtered Ta, Ta-N and Ta-N-O thin films," Thin Solid Films, 307 (1997) 79-88.	x
1016	Library of Congress Catalog Record of Stavrev et al., "Crystallographic and morphological characterization of reactively sputtered Ta, Ta-N and Ta-N-O thin films," Thin Solid Films, 307 (1997) 79-88.	x
1017	Duan et al., "Magnetic Property and Microstructure Dependence of CoCrTa/Cr Media on Substrate Temperature and Bias," IEEE Transactions on Magnetics, Vol. 28, No. 5 (September 1992).	x
1018	Library of Congress Catalog Record of Duan et al., "Magnetic Property and Microstructure Dependence of CoCrTa/Cr Media on Substrate Temperature and Bias," IEEE Transactions on Magnetics, Vol. 28, No. 5 (September 1992).	x
1019	Moussavi et al., "Comparison of Barrier Materials and Deposition Processes for Copper Integration," Proceedings of the IEEE 1998 International Interconnect Technology Conference, pp. 295-97 (1998).	x
1020	Library of Congress Catalog Record of Moussavi et al., "Comparison of Barrier Materials and Deposition Processes for Copper Integration," Proceedings of the IEEE 1998 International Interconnect Technology Conference, pp. 295-97 (1998).	x
1021	Wijekoon et al., "Development of a Production Worthy Copper CMP Process," 1998 IEEE/SEMI Advanced Semiconductor Manufacturing Conference, pp. 354-63 (1998).	x
1022	Library of Congress Catalog Record of Wijekoon et al., "Development of a Production Worthy Copper CMP Process," 1998 IEEE/SEMI Advanced Semiconductor Manufacturing Conference, pp. 354-63 (1998).	x

Exhibit No.	Description	Previously Submitted
1023	Wang et al., "Barrier Properties of Very Thin Ta and TaN layers Against Copper Diffusion," J. Electrochem. Soc., Vol. 145, No. 7, pp. 2538-45.	x
1024	Library of Congress Catalog Record of Wang et al., "Barrier Properties of Very Thin Ta and TaN layers Against Copper Diffusion," J. Electrochem. Soc., Vol. 145, No. 7, pp. 2538-45.	x
1025	U.K. Patent No. 2,298,657 to Cho.	x
1026	U.S. Patent No. 5,780,908 to Sekiguchi et al.	x
1027	U.S. Patent No. 5,869,902 to Lee et al.	x
1028	U.S. Patent No. 5,882,399 to Ngan et al.	x
1029	U.S. Patent No. 6,057,237 to Ding et al.	x
1030	U.S. Patent No. 6,136,682 to Hegde et al.	x
1031	U.S. Patent No. 6,242,804 to Inoue et al.	x
1032	Annotated FIG. 4 of U.S. Patent No. 5,893,752 to Zhang et al.	x
1033	U.S. Patent No. 6,458,255 to Chiang et al.	x
1034	Excerpt of "The American Heritage College Dictionary," 3 rd Ed., Houghton Mifflin Company (1993).	x
1035	U.S. Patent No. 5,281,485 to Colgan et al.	x
1036	May 5, 2017, Deposition Transcript of Harlan R. Harris, Ph.D.	x
1037	Invalidity Contentions, <i>Godo Kaisha IP Bridge 1 v. Broadcom Limited, et al.</i> , Case No. 2:16-cv-134	x
1038	Declaration of Dr. Sanjay K. Banerjee.	x
1039	Declaration of Thomas E. Gorman.	x
1039A	Ex. A to Exhibit 1039 - PACER Docket, <i>Godo Kaisha IP Bridge 1 v. Broadcom Limited</i> , 16-cv-00134.	x
1039B	Ex. B to Exhibit 1039 - Appendix_B Patent Rules 5.6.15.	x
1039C	Ex. C to Exhibit 1039 - Docket Control Order, <i>Godo Kaisha IP Bridge 1 v. Broadcom Limited</i> , 16-cv-00134.	x
1039D	Ex. D to Exhibit 1039 - Rule 3-3 Notice of Compliance, <i>Godo Kaisha IP Bridge 1 v. Broadcom Limited</i> , 16-cv-134.	x

Exhibit No.	Description	Previously Submitted
1039E	Ex. E to Exhibit 1039 - TSMC Exhibit 1037, IPR2016-01249.	x
1039F	Ex. F to Exhibit 1039 - TSMC Exhibit 1037, IPR2016-01264.	x
1040	Email correspondence concerning authenticity of Exhibit 1037.	x
1041	Petitioner's Demonstratives.	

Petitioner hereby certifies that copies of all listed documents above have been served on counsel for Patent Owner.

Respectfully submitted,

Dated: August 3, 2017

By: /E. Robert Yoches/
E. Robert Yoches, Lead Counsel
Reg. No. 30,120

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.