

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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APPLIED MATERIALS, INC.

Petitioner

v.

DEMARAY LLC  
Patent Owner

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Case IPR2021-00104  
Patent No. 7,381,657

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**PETITIONER'S CURRENT LIST OF EXHIBITS**

**LIST OF EXHIBITS**

Ex. No.	Description	Previously Submitted
Ex. 1001	U.S. Patent No. 7,381,657	X
Ex. 1002	Declaration of Dr. Vivek Subramanian	X
Ex. 1003	Curriculum Vitae of Dr. Vivek Subramanian	X
Ex. 1004	Prosecution History of U.S. Patent No. 7,381,657	X
Ex. 1005	U.S. Patent No. 6,342,134 to Barber et al.	X
Ex. 1006	U.S. Patent No. 6,485,602 to Hirose	X
Ex. 1007	U.S. Patent No. 5,651,865 to Sellers	X
Ex. 1008	A. Belkind et al., <i>Pulsed-DC reactive sputtering of dielectrics: Pulsing parameter effects</i> (2000)	X
Ex. 1009	U.S. Patent No. 4,464,223 to Gorin	X
Ex. 1010	U.S. Patent No. 6,132,564 to Licata	X
Ex. 1011	U.S. Patent No. 5,942,089 to Sproul	X
Ex. 1012	U.S. Patent No. 6,352,629 to Wang	X
Ex. 1013	S. Gibilisco, <i>Handbook of Radio &amp; Wireless Technology</i> (1999)	X
Ex. 1014	J. Joo, <i>Low-temperature polysilicon deposition by ionized magnetron sputtering</i> (2000)	X
Ex. 1015	B. Chapman, <i>Glow Discharge Processes</i>	X
Ex. 1016	U.S. Patent No. 4,579,618 to Celestino	X

Ex. 1017	International Publication No. WO 02/23588 to Quon	X
Ex. 1018	International Publication No. WO 01/6300 to Johnson	X
Ex. 1019	U.S. Patent No. 6,695,954 to Hong	X
Ex. 1020	U.S. Patent No. 6,153,068 to Ohmi	X
Ex. 1021	U.S. Patent No. 4,846,920 to Keller	X
Ex. 1022	U.S. Patent No. 6,911,351 to Kidoguchi	X
Ex. 1023	U.S. Patent No. 5,302,882 to Miller	X
Ex. 1024	Pinnacle Plus+ 10KW (325-650 Vdc) Master/Slave AE Bus, DeviceNet, MDXL User, UHF Output User Manual (March 2005)	X
Ex. 1025	The Advanced Energy MDX Magnetron Drive, Advanced Energy Industries, Inc. (March 1993)	X
Ex. 1026	Pinnacle 10x6 kW DeviceNet, MDXL User 5702063-C, User Manual, (May 2000)	X
Ex. 1027	U.S. Patent Publication No. 2002/0027249 A1 to Takemura	X
Ex. 1028	U.S. Patent Publication No. 2002/0144889 to Tao	X
Ex. 1029	E. Dogheche, <i>Growth and optical characterization of aluminum nitride thin films deposited on silicon by radio-frequency sputtering</i> , <i>Applied Physics Letters</i> (1999)	X
Ex. 1030	U.S. Patent No. 6,506,686 to Masuda	X
Ex. 1031	K. Nam, <i>A study on the high rate deposition of CrN films with x controlled microstructure by magnetron sputtering</i> , <i>Surface &amp; Coatings Technology</i> (2000)	X
Ex. 1032	D. Mattox, <i>Handbook of Physical Vapor Deposition (PVD) Processing – Film Formation, Adhesion, Surface Preparation and Contamination Control</i> (1998)	X
Ex. 1033	U.S. Patent No. 5,830,327 to Kolenkow	X

Ex. 1034	U.S. Patent Publication No. 2001/0041252 to Laird	X
Ex. 1035	M. Ruske, <i>Properties of SiO<sub>2</sub> and Si<sub>3</sub>N<sub>4</sub> layers deposited by MF twin magnetron sputtering using different target materials, Thin Solid Films</i> (1999)	X
Ex. 1036	W. Sproul, <i>High-rate reactive DC magnetron sputtering of oxide and nitride superlattice coatings</i> (1998)	X
Ex. 1037	U.S. Patent Publication No. 2003/0029563 to Kaushal	X
Ex. 1038	U.S. Patent No. 6,627,323 to Nagaraj	X
Ex. 1039	I. Safi, <i>A novel reactive magnetron sputtering technique for producing insulating oxides of metal alloys and other compound thin films</i> (2000)	X
Ex. 1040	U.S. Patent No. 6,001,227 to Pavate	X
Ex. 1041	S. Wolf et al., <i>Silicon Processing for the VLSI Era, Vol. 1</i> (2000)	X
Ex. 1042	Declaration of Dr. Ingrid Hsieh-Yee	X
Ex. 1043	U.S. Patent Publication No. 2001/0031383 to Sakawaki	X
Ex. 1044	U.S. Patent No. 4,895,631 to Wirz	X
Ex. 1045	U.S. Patent No. 7,041,391 to Ando	X
Ex. 1046	U.S. Patent No. 6,657,260 to Yamazaki	X
Ex. 1047	A. Billard, <i>Low-frequency modulation of pulsed d.c. or r.f. discharges for controlling the reactive magnetron sputtering process, Surface &amp; Coatings Technology</i> (1996)	X
Ex. 1048	P. Kelly, <i>The deposition of aluminum oxide coatings by reactive unbalanced magnetron sputtering</i> (1996)	X
Ex. 1049	U.S. Patent No. 7,247,227 to Hanson	X
Ex. 1050	U.S. Patent No. 7,391,072 to Forbes	X
Ex. 1051	International Publication No. WO 96/06203 to O'Brien	X

Ex. 1052	File History of U.S. Patent No. 7,378,356	X
Ex. 1053	Applied Physics Letters, Vol. 74, No. 9 (March 1, 1999) Webpages <a href="https://aip.scitation.org/toc/apl/74/9?size=all&amp;">https://aip.scitation.org/toc/apl/74/9?size=all&amp;</a> and <a href="https://aip.scitation.org/doi/10.1063/1.123501">https://aip.scitation.org/doi/10.1063/1.123501</a> (visited Sept. 2020)	X
Ex. 1054	U.S. Patent No. 5,331,218 to Moody	X
Ex. 1055	<i>Overall Revision of the Rules Regarding Industrial Scientific and Medical (ISM) Equipment</i> , 50 Fed. Reg. 36,061 (September 5, 1985)	X
Ex. 1056	U.S. Patent No. 6,409,965 to Nagata	X
Ex. 1057	U.S. Patent No. 6,284,110 to Sill	X
Ex. 1058	U.S. Patent No. 5,148,133 to Zennamo	X
Ex. 1059	P. Kelly et al., <i>Reactive pulsed magnetron sputtering process for alumina films</i> (2000)	X
Ex. 1060	U.S. Patent Application No. 09/145,323 to Miller et al.	X
Ex. 1061	U.S. Patent No. 4,960,651 to Pettigrew	X
Ex. 1062	Pinnacle 20 kW DeviceNet, MDXL User 5702199-A, User Manual, (April 2001)	X
Ex. 1063	U.S. Patent No. 6,010,583 to Annavarapu	X
Ex. 1064	RESERVED	
Ex. 1065	Pinnacle Plus Pulsed DC Power Supply Data Sheet (April 1999)	X
Ex. 1066	Advanced Energy Industries, Inc. SEC 10-K (2000)	X
Ex. 1067	Pinnacle Plus 10kW User 5702269-B, User Manual, (June 2002)	X

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