

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

THE BOEING COMPANY
Petitioner,

v.

THE REGENTS OF THE UNIVERSITY OF CALIFORNIA
Patent Owner.

Case No. IPR2024-00761
U.S. Patent No. 7,487,684

PETITIONER'S CURRENT LIST OF EXHIBITS

LIST OF EXHIBITS

Exhibit No.	Description	Previously Submitted?
1001	U.S. Patent 7,487,684 (“’684 Patent”)	X
1002	Prosecution History of U.S. Patent 7,487,684 (“’684 File History”)	X
1003	Declaration of Junlan Wang, Ph.D. (“Wang Declaration”)	X
1004	Curriculum Vitae of Junlan Wang, Ph.D.	X
1005	Junlan Wang, 2002 Ph.D. Dissertation at University of Illinois at Urbana-Champaign, “Thin-film Adhesion Measurements by Laser-Induced Stress Wave” (“Wang-Dissertation” or “Wang”)	X
1006	Declaration of Ingrid Hseih-Yee (“Hseih-Yee Declaration”)	X
1007	Anderholm, N., 1970, “Laser-Generated Stress Waves,” Appl. Phys. Lett., 16(3), pp. 113-115	X
1008	Fox, J.A., and Barr, D.N., 1973, “Laser-Induced Shock Effects in Plexiglas and 6061-T6 Aluminum,” Appl. Phys. Lett., 22(11), pp. 594-596	X
1009	Yang, L., 1974, “Stress Waves Generated in Thin Metallic Films by a Q-Switched Ruby Laser,” J. Appl. Phys., 45(6), pp. 2601-2608	X
1010	Stephens, A.W., and Vossen, J.L., 1976, “Abstract: Measurement of Interfacial Bond Strength by Laser Spallation,” J. Vac. Sci. Technol., 13(1), pp. 38-39	X
1011	Gupta, V., Argon, A., Parks, D., and Cornie, J., 1992, “Measurement of Interface Strength by a Laser Spallation Technique,” J. Mech. Phys. Solids, 40(1), pp. 141-180 (“Gupta-1992”)	X
1012	J. Yuan and V. Gupta, “Measurement of interface strength by the modified laser spallation experiment. I-II,” Journal of Applied Physics, vol. 74, no. 4, pp. 2388-2404, 1993	X

Exhibit No.	Description	Previously Submitted?
1013	J. Yuan, V. Gupta, A. Pronin, “Measurement of interface strength by the modified laser spallation experiment. III,” Journal of Applied Physics, vol. 74, no. 4, pp. 2405-2410, 1993 (“Gupta-1993”)	X
1014	Wang, J. , Sottos, N. R. , and Weaver, R. L., 2000, “Laser Induced Thin Film Spallation,” TAM Technical Reports, University of Illinois Urbana-Champaign	X
1015	Wang, J., Weaver, R.L., 2001, “Abstract: Laser-induced weak shock in fused silica for destructive testing of thin films” J. Acoust. Soc. Am. 109, 2308 (2001)	X
1016	Wang, J., Weaver, R. L., and Sottos, N. R., 2002, “A Parametric Study of Laser Induced Thin Film Spallation,” Exp. Mech., 42(1), pp. 74-83 (“Wang-2002”)	X
1017	Wang, J., Sottos, N. R., and Weaver, R.L., 2003, “Thin Film Adhesion Measurement by Laser Induced Stress Waves,” J. Mech. Phys. Solids	X
1018	Wang, J., Weaver, R. L., and Sottos, N. R., 2003, “Laser-Induced Decompression Shock Development in Fused Silica,” J. Appl. Phys., 93(12), pp. 9529–9536	X
1019	Gupta V, Kireev V, Tian J, Yoshida H, Akahoshi H, 2003, “Glass-modified stress waves for adhesion measurement of ultra-thin films for device applications,” J. Mech. Phys. Solids 51(8):1395-1412	X
1020	Fairand, B.P., Clauer, A.H., 1977, “Use of Laser Generated Shocks to Improve the Properties of Metals and Alloys,” Indus. App. Of High Power Laser Tech., Vol. 86,	X
1021	Barker, L.M., Hollenbach, R.E, 1970, “Shock wave studies of PMMA, fused silica and sapphire,” J. Appl. Phys, 41, pp. 4208-4226	X
1022	December 13, 2023 Defendant’s Motion to Dismiss Plaintiff’s Second Amended Complaint Under Federal	X

Exhibit No.	Description	Previously Submitted?
	Rules of Civil Procedure 12(b)(2), 12(b)(3), and 12(b)(2), Dkt. 78, <i>Laser Spallation Technologies, LLC v. The Boeing Company</i> , Case No. 2:23-cv-02294 (C.D. Cal.)	
1023	February 1, 2024 Order Denying Defendants’ Motion to Dismiss, Dkt. 86, <i>Laser Spallation Technologies, LLC v. The Boeing Company</i> , Case No. 2:23-cv-02294 (C.D. Cal.)	X
1024	February 7, 2024 Order Setting Deadlines Re Jurisdictional Discovery, Dkt. 90, <i>Laser Spallation Technologies, LLC v. The Boeing Company</i> , Case No. 2:23-cv-02294 (C.D. Cal.)	X
1025	February 27, 2024 Order Conditionally Granting Motion to Compel Gupta Deposition [ECF 91] and Denying Application to Expedite Hearing on Motion to Compel [ECF 92], Dkt, 93, <i>Laser Spallation Technologies, LLC v. The Boeing Company</i> , Case No. 2:23-cv-02294 (C.D. Cal.)	X
1026	February 1, 2024 Order Re: Civil Jury/Court Trial, Dkt. 89, <i>Laser Spallation Technologies, LLC v. The Boeing Company</i> , Case No. 2:23-cv-02294 (C.D. Cal.)	X
1027	Provisional Application No. 60/550,803	X
1028	Alexander Pronin, 1995 Ph.D. Dissertation at Dartmouth College, “Applications of Laser Generated Stress Pulses for Materials Characterization”	X
1029	Gupta, V., & Argon, A. S., 1991, “Measurement of strength of thin film interfaces by laser spallation experiment,” <i>Inelastic Deformation of Composite Materials: IUTAM Symposium, Troy, New York, May 29–June 1, 1990</i> (pp. 51-74). New York, NY: Springer New York	X
1030	Conference Program Book, ASME International Mechanical Engineering Congress and Exposition, November 17-22, 2002, New Orleans, Louisiana	X

Exhibit No.	Description	Previously Submitted?
1031	Uerara, K., Sakurai, M., 2002, “Bonding strength of adhesives and surface roughness of joined parts,” J. Materials Processing Tech., 127, 178-181	X
1032	Yu, A., Gupta, V, 1998, “Measurement of In Situ Fiber/Matrix Interface Strength in Graphite/Epoxy Composites,” Composites Science and Technology 58,1827-1837	X
1033	November 2, 2023 Declaration of Vijay Gupta in Support of Plaintiff’s Second Amended Complaint, Dkt. 75, <i>Laser Spallation Technologies, LLC v. The Boeing Company</i> , Case No. 2:23-cv-02294 (C.D. Cal.)	X
1034	U.S. Patent No. 5,438,402	X
1035	March 15, 2024 Declaration of LaTonya Morris, ProQuest	X
1036	February 7, 2024 Declaration of Carl Mageski, ProQuest	X
1037	December 18, 2024 Declaration of LaTonya Morris, ProQuest	X
1038	Supp. Declaration of Junlan Wang, Ph.D. (“Supp. Wang Decl.”)	
1039	Deposition Transcript of Dr. Vijay Gupta taken on April 11, 2025	
1040	Deposition Transcript of Dr. Vijay Gupta taken on March 12, 2024	
1041	Supp. Declaration of Ingrid Hseih-Yee (“Supp. Hseih-Yee Decl.”)	
1042	UIUC bibliographic and MARC record for the Wang dissertation	
1043	OCLC FirstSearch record for the Wang dissertation	
1044	“ProQuest Digital Dissertations” archived by Internet Archive on August 16, 2000.	
1045	“About ProQuest Digital Dissertations” archived by Internet Archive on August 15, 2000, and on April 16, 2003.	

Exhibit No.	Description	Previously Submitted?
1046	Steps for accessing ProQuest metadata record, previewing 24 pages of a dissertation, and viewing the full dissertation	
1047	“Online Dissertation Services” archived by Internet Archive on February 10, 2003.	
1048	Copyright registration record for v. 63, no. 11 of <i>Dissertation Abstracts International</i> that contains the index record for the Wang dissertation, obtained from the public catalog of the US Copyright Registration Office	
1049	Copy of the front matter of v. 63, no. 11 of <i>Dissertation Abstracts International</i> and the index record for the Wang dissertation, obtained from the Library of Congress	
1050	Comparison file of the original abstract and the abstract in the ProQuest metadata record	
1051	Library system of the University of Illinois at Urbana-Champaign archived by Internet Archive on February 11, 2003.	
1052	[RESERVED]	
1053	Declaration of Dr. Vijay Gupta from 8/11/2023	
1054	Declaration of Dr. Vijay Gupta from 11/2/2023	
1055	Declaration of Dr. Vijay Gupta from 1/5/2024	
1056	Lili Hu, Phillip Miller, Junlan Wang, 2009, “High strain-rate spallation and fracture of tungsten by laser-induced stress waves,” <i>Materials Science and Engineering A</i> , 504 (2009) 73-80 (“Wang-2009”)	

Dated: April 28, 2025

Respectfully submitted,

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CERTIFICATION OF SERVICE

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