UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

SAMSUNG ELECTRONICS CO., LTD. AND SAMSUNG ELECTRONICS AMERICA, INC.
Petitioners,

v.

MANUFACTURING RESOURCES INTERNATIONAL, INC.
Patent Owner

U.S. Patent No. 9,173,322

Title: CONSTRICTED CONVECTION COOLING SYSTEM FOR AN ELECTRONIC DISPLAY

Inter Partes Review No. IPR2023-00220

PETITIONERS' EXHIBIT LIST AS OF NOVEMBER 22, 2023

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Alexandria, VA 22313-1450

Pursuant to 37 C.F.R. § 42.63(e), below is a current listing of Petitioners' exhibits.

Exhibit No.	Description of Document
1001	U.S. Patent No. 9,173,322 (the "'322 patent")
1002	Declaration of Robert Smith-Gillespie
1003	Curriculum Vitae of Robert Smith-Gillespie
1004	U.S. Patent Application Publication No. 2006/0199514 to Kimura ("Kimura")
1005	U.S. Patent No. 7,800,706 B2 to Kim, et al. ("Kim")
1006	U.S. Patent Application Publication No. 2006/0132699 to Cho, et al. ("Cho")
1007	Japanese Unexamined Patent Application Publication No. H11-68363 to Takahashi ("Takahashi")
1008	Certified Translation of Japanese Unexamined Patent Application Publication No. H11-68363 to Takahashi ("Takahashi")
1009	Korean Published Unexamined Patent Application No. 10-2006-0016469 to Na ("Na")
1010	Certified Translation of Korean Published Unexamined Patent Application No. 10-2006-0016469 to Na ("Na")
1011	Claim Construction Order (D.I. 153) dated October 3, 2018 in *Manufacturing Resources Int'l, Inc. v. Civiq Smartscapes, LLC, et al.*, Civil Action No. 17-269-RGA (D. Del.)

Exhibit No.	Description of Document
1012	Memorandum Opinion (D.I. 150) dated September 27, 2018 in *Manufacturing Resources Int'l, Inc. v. Civiq Smartscapes, LLC, et al.*, Civil Action No. 17-269-RGA (D. Del.)
1013	U.S. Patent No. 6,825,828 B2 to Burke, et al. ("Burke")
1014	E. Fred Schubert & Jong Kyu Kim, *Solid-State Light Sources Getting Smart*, 308 *Science* 1274 (2005) ("Schubert")
1015	U.S. Patent Application Publication No. 2004/0223299 to Ghosh ("Ghosh")
1016	Military Handbook: Reliability Prediction of Electronic Equipment, DEPARTMENT OF DEFENSE, MIL-HDBK-217F (1991) ("MIL-HDBK-217F")
1017	Allan Webber, *Calculating Useful Lifetimes of Embedded Processors,* TEXAS INSTRUMENTS INCORPORATED, SPRABX4 (Nov. 2014) ("Webber")
1018	LIAN-TUU YEH & RICHARD C. CHU, THERMAL MANAGEMENT OF MICROELECTRONIC EQUIPMENT: HEAT TRANSFER THEORY, ANALYSIS METHODS, AND DESIGN PRACTICES (Dereje Agonafer ed., 2002) ("Yeh & Chu")
1019	ALLAN W. SCOTT, COOLING OF ELECTRONIC EQUIPMENT (John Wiley & Sons, 1974) ("Scott")
1020	DAVE S. STEINBERG, COOLING TECHNIQUES FOR ELECTRONIC EQUIPMENT (John Wiley & Sons, 1980) ("Steinberg")

Exhibit No.	Description of Document
1021	U.S. Patent No. 5,748,269 to Harris, et al. ("Harris")
1022	U.S. Patent Application Publication No. 2002/0122134 to Kalua ("Kalua")
1023	Custom Luxeon Design Guide, LUMILEDS FUTURE ELECTRONICS, Application Brief AB12 (Nov. 2004) ("Lumileds AB12")
1024	Thermal Design Using: Luxeon Power Light Sources, PHILLIPS LUMILEDS LIGHTING COMPANY, Application Brief AB05 (June 2006) ("Lumileds AB05")
1025	Japanese Patent No. 2006-330196 to Tachikawa ("Tachikawa")
1026	Certified Translation of Japanese Patent No. 2006-330196 to Tachikawa ("Tachikawa")
1027	Japanese Unexamined Patent Application Publication No. 10-2003-162228 to Kochiyama ("Kochiyama")
1028	Certified Translation of Japanese Unexamined Patent Application Publication No. 10-2003-162228 to Kochiyama ("Kochiyama")
1029	United States Patent Application Publication No. 2007/0171353 to Hong ("Hong")
1030	PEM BULLETIN, PennEngineering (1997) ("PEM")
1031	MERRIAM-WEBSTER'S COLLEGIATE DICTIONARY (11th ed. 2007) ("Webster")
1032	THE OXFORD ENGLISH DICTIONARY (J. A. Simpson & E. S. C. Weiner eds., 2d ed. 1989) ("Oxford")

Exhibit No.	Description of Document
1033	RANDOM HOUSE WEBSTER'S COLLEGIATE DICTIONARY (2d ed. 2000) ("Random House")
1034	File History for U.S. Application No. 14/508,621
1035	U.S. Patent No. 8,854,595, to Dunn ("the '595 patent")
1036	U.S. Patent Application Publication No. 2008/0218446 to Yamanaka ("Yamanaka")
1037	U.S. Patent No. 7,753,567 to Kang, et al. "(Kang")
1038	U.S. Patent Application Publication No. 2009/0154096 to Iyengar, et al. ("Iyengar")
1039	Redline of Corrected Petition
1040	Claim Construction Order (Order No. 13) dated May 15, 2023 in *In the Matter of Certain Outdoor and Semi-Outdoor Electronic Displays, Products Containing Same, And Components Thereof*, Inv. No. 337-TA-1331 (U.S.I.T.C.)
1041	Supplemental Certification of Translation Accuracy by Natalia Lehmann for Certified Translation of Japanese Patent No. 2006-330196 to Tachikawa ("Tachikawa") (Ex. 1026)
1042	Supplemental Certification of Translation Accuracy by Brian Toth for Certified Translation of Japanese Unexamined Patent Application

Exhibit No.	Description of Document
	Publication No. 10-2003-162228 to Kochiyama ("Kochiyama") (Ex. 1028)
1043	Supplemental Certification of Translation Accuracy by Byoung-Go for Certified Translation of Korean Unexamined Patent Application Publication No. 10-2006-0016469 to Na ("Na") (Ex. 1010)
1044	Supplemental Certification of Translation Accuracy by Dan McCourt for Certified Translation of Japanese Unexamined Patent Application Publication No. H11-68363 to Takahashi ("Takahashi") (Ex. 1008), Certified Translation of Japanese Patent No. 2006-330196 to Tachikawa ("Tachikawa") (Ex. 1026), and Certified Translation of Japanese Unexamined Patent Application Publication No. 10-2003-162228 to Kochiyama ("Kochiyama") (Ex. 1028)
1045	Supplemental Certification of Translation Accuracy by Dan McCourt for Certified Translation of Korean Unexamined Patent Application Publication No. 10-2006-0016469 to Na ("Na") (Ex. 1010)
1046	Supplemental Certification of Translation Accuracy by Natalia Lehmann for Certified Translation of Japanese Unexamined Patent Application Publication No. H11-68363 to Takahashi ("Takahashi") (Ex. 1008)
1047	Declaration of Srikanth K. Reddy in Support of Motion for *Pro Hac Vice* Admission Under 37 C.F.R. § 42.10(c)

Date: November 22, 2023

Respectfully submitted,

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CERTIFICATE OF SERVICE

The undersigned certifies that a true and correct copy of the foregoing PETITIONERS' EXHIBIT LIST AS OF NOVEMBER 22, 2023 and Exhibit 1047 have been served on counsel for Patent Owner by email upon the following addresses as listed in Patent Owner's Mandatory Notices:

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Respectfully submitted,
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