

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

SAMSUNG DISPLAY CO., LTD.,

Petitioner,

v.

PICTIVA DISPLAYS INTERNATIONAL LIMITED

Patent Owner.

Case No. IPR2024-01223

Patent No. 6,949,389

**PATENT OWNER PICTIVA DISPLAYS INTERNATIONAL LTD.'S
UPDATED EXHIBIT LIST**

UPDATED EXHIBIT LIST

EX No.	Document Description
EX2001	Pre-Institution Declaration of Mr. Kurt Humphrey
EX2002	Declaration of Dr. E. Fred Schubert on behalf of Samsung Electronics Co., Ltd. et al. in <i>Pictiva Displays Int'l Ltd. v. Samsung Electronics Co. Ltd.</i> , et al., Case No. 2:23-cv-000495 (Nov. 12, 2024)
EX2003	Samsung's Notice of Corrected Exhibit B to Joint P.R. 4-3 Statement in <i>Pictiva Displays Int'l Ltd. v. Samsung Electronics Co. Ltd.</i> , et al., Case No. 2:23-cv-000495, Dkt. 110 & 110-1 (E.D. Tex. Nov. 13, 2024)
EX2004	Samsung's Proposed Claim Constructions for the Terms and Phrases Identified for Construction per Local Rule 4-2 in <i>Pictiva Displays Int'l Ltd. v. Samsung Electronics Co. Ltd.</i> , et al., Case No. 2:23-cv-000495 (E.D. Tex. Oct. 22, 2024)
EX2005	Thermal Conductivity tables, downloaded from hyperphysics.phy-astr.gsu.edu/hbase/Tables/thrcn.html (last visited Dec. 11, 2024), referencing Chapter 15 of Young, Hugh D., University Physics, 7th Ed., Addison Wesley, 1992.
EX006	Thermal conductivities of common solids, liquids and gases, from https://www.engineeringtoolbox.com/thermal-conductivity-d_429.html (last visited Dec. 11, 2024)
EX2007	Ekaterina Selzneva et al., <i>Strong Suppression of Thermal Conductivity in the Presence of Long Terminal Alkyl Chains in Low-Disorder Molecular Semiconductors</i> , Advanced Materials 33, 2008708 (2021)
EX2008	omitted
EX2009	Docket Control Order in <i>Pictiva Displays Int'l Ltd. v. Samsung Electronics Co. Ltd.</i> , et al., Case No. 2:23-cv-000495, Dkt. 40 (E.D. Tex. Apr. 17, 2024)
EX2010	Federal Court Management Statistics for U.S. District Courts, available from https://www.uscourts.gov/statistics/table/na/federal-court-management-statistics/2024/06/30-1
EX2011	Pre-Institution Declaration of Mr. Kurt Humphrey

EX No.	Document Description
EX2012	Declaration of Dr. E. Fred Schubert on behalf of Samsung Electronics Co., Ltd. et al. in <i>Pictiva Displays Int'l Ltd. v. Samsung Electronics Co. Ltd.</i> , et al., Case No. 2:23-cv-000495 (Nov. 12, 2024)
EX2013	Samsung's Notice of Corrected Exhibit B to Joint P.R. 4-3 Statement in <i>Pictiva Displays Int'l Ltd. v. Samsung Electronics Co. Ltd.</i> , et al., Case No. 2:23-cv-000495, Dkt. 110 & 110-1 (E.D. Tex. Nov. 13, 2024)
EX2014	Samsung's Proposed Claim Constructions for the Terms and Phrases Identified for Construction per Local Rule 4-2 in <i>Pictiva Displays Int'l Ltd. v. Samsung Electronics Co. Ltd.</i> , et al., Case No. 2:23-cv-000495 (E.D. Tex. Oct. 22, 2024)
EX2015	Thermal Conductivity tables, downloaded from hyperphysics.phy-astr.gsu.edu/hbase/Tables/thrcn.html (last visited Dec. 11, 2024), referencing Chapter 15 of Young, Hugh D., University Physics, 7th Ed., Addison Wesley, 1992.
EX2016	Samsung Invalidity Contentions in <i>Pictiva Displays Int'l Ltd. v. Samsung Electronics Co. Ltd.</i> , et al., Case No. 2:23-cv-000495 (E.D. Tex. Jun. 11, 2024)
EX2017	<i>Sotera</i> Stipulation
EX2018	Declaration of Mr. Kurt Humphrey in Support of POR
EX2019	Markman Hearing Transcript in companion district court case, <i>Pictiva Displays Int'l Ltd. v. Samsung Electronics Co. Ltd.</i> , et al., Case No. 2:23-cv-000495 (E.D. Tex. Feb. 4, 2024)
EX2020	2025-05-30 Deposition Transcript of Dr. Vivek Subramanian
EX2021	2025-05-31 Deposition Transcript of Dr. Vivek Subramanian
EX2022	U.S. Patent No. 6,590,157 to Boroson et al.
EX2023	Steven Molesa et al., "High-quality inkjet-printed multilevel interconnects and inductive components on plastic for ultra-low-cost RFID applications," Mat. Res. Soc. Symp. Proc. Vol. 769, H.8.3.1-H8.3.6 (2003)
EX2024	Jin-Seong Park et al., "Thin film encapsulation for flexible AM-OLED: a review," Semicond. Sci. Technol. 26, 034001 (2011)

EX No.	Document Description
EX2025	Daniel Huang et al., “Plastic-Compatible Low Resistance Printable Gold Nanoparticle Conductors for Flexible Electronics,” Journal of The Electrochemical Society, 150 (7), G412-G417 (2003)
EX2026	Wenbo Zhou et al., “Experimental Study on Viscosity of Colloidal Silica in Aqueous Electrolytic Solutions,” Journal of Dispersion Science and Technology, 29:842-847 (2008)
EX2027	Junhui He et al., “Preparation of Porous and Nonporous Silica Nanofilms from Aqueous Sodium Silicate,” <i>Chem. Mater.</i> , 2003, 15, 3308-3313 (2003)
EX2028	Kyoung-Min Kim et al., “Surface treatment of silica nanoparticles for stable and charge-controlled colloidal silica,” International Journal of Nanomedicine 2014:9 (Suppl 2) 29–40 (2014)
EX2029	389 Invention Disclosures for IPR2024-01223
EX2030	Lorenza Moro et al, “Large-Scale Manufacturing of Polymer Planarization Layer,” informationdisplay.org, 10-15 (March/April 2021), available from https://sid.onlinelibrary.wiley.com/doi/epdf/10.1002/msid.1194 (last visited Jun. 20, 2025)
EX2031	[Under Seal], Deposition Transcript of Dr. Homer Antoniadis in <i>Pictiva Displays Int’l Ltd. v. Samsung Electronics Co. Ltd., et al.</i> , Case No. 2:23-cv-000495 (E.D. Tex. Jun. 4, 2025)
EX2032	Deposition Exhibit 5 to Dr. Antoniadis’s deposition, Final Technical Progress Report Polymer OLED White Light Development Program – (#DE-FC26-04NT41947)
EX2033	reserved
EX2034	Jeff Hebb of Kateeva, “Advanced Inkjet Printing: Enabling the OLED Revolution” (Sept. 28, 2017), available from https://nccavs-usergroups.avs.org/wp-content/uploads/TFUG2017/TFUG917-3-Hebb.pdf (last visited June 15, 2025)
EX2035	Roll to Roll (R2R) Processing Technology Assessment, Pre-decision draft, available from Available from https://www.energy.gov/sites/prod/files/2015/02/f19/QTR%20Ch8%20-%20Roll%20To%20Roll%20Processing%20TA%20Feb-13-2015.pdf (last visited June 15, 2025)

EX No.	Document Description
EX2036	Chandra Kant et al., “Large area inkjet-printed OLED fabrication with solution-processed TADF ink,” nature communications (2023)
EX2037	P.E. Burrows et al., “Gas Permeation and Lifetime Tests on Polymer-Based Barrier Coatings,” Proceedings of SPIE Vol. 4105, 75-83 (2001)
EX2038	Screenshot of https://global.samsungdisplay.com/31159 , “[Learn Display] 100. Inkjet Printing” by Samsung Display
EX2039	[Under Seal] Pictiva 80x48 display product specification
EX2040	U.S. Patent No. 6,605,483 to Add-Vision, Inc.
EX2041	U.S. Patent No. 7,115,216 to Add-Vision, Inc.
EX2042	U.S. Patent Application Publication No. 2008/000889 to 3M
EX2043	Patrick Stark et al., “OLED – Evaluation and clarification of the new Organic Light Emitting Display technology,” Department of Science and Technology, Linkopng University, Sweden (Mar. 11, 2002), available from https://www.diva-portal.org/smash/record.jsf?pid=diva2%3A18218&dswid=4057 .
EX2044	U.S. Patent No. 6,337,222 to Shimoda
EX2045	Screenshot of https://kateeva.com/solutions/technology/why-inkjet/ (last visited June 20, 2025)
EX2046	Declaration of Mr. Kurt Humphrey in Support of IPR2024-01222 POR
EX2047	Memorandum Claim Construction Opinion and Order in <i>Pictiva Displays International Ltd. V. Samsung Electronics Co., Ltd.</i> , 2:23-cv-495 (E.D. Tex. June 27, 2025)
EX2048	Reserved
EX2049	2025-10-30 Deposition Transcript of Dr. Vivek Subramanian
EX2050	2025-10-31 Deposition Transcript of Dr. Vivek Subramanian
EX2051	Reserved
EX2052	IPR2024-01223 Patent Owner Demonstratives
EX2053	IPR2024-01222 (Public) Patent Owner Demonstratives
EX2100	Conor Madigan, “Inkjet Technology for OLED SSL Mass Production,” (Jan. 28, 2015), available from

EX No.	Document Description
	https://energy.gov/sites/prod/files/2015/02/f19/brown-madigan_inkjet_sanfrancisco2015.pdf .

Dated: December 5, 2025

Respectfully submitted,

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CERTIFICATE OF SERVICE

I hereby certify, pursuant to 37 C.F.R. section 42.6, that on December 5, 2025, copies of **PATENT OWNER PICTIVA DISPLAYS INTERNATIONAL LIMITED'S UPDATED EXHIBIT LIST** and **EXHIBITS 2051-2052** were served upon the following, by ELECTRONIC MAIL:

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