

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

SAMSUNG DISPLAY CO., LTD.,
Petitioner,

v.

PICTIVA DISPLAYS INTERNATIONAL LTD.,
Patent Owner.

Case No. IPR2024-01093

Patent No. 8,723,164

**NOTICE OF FILING OF PETITIONER'S HEARING DEMONSTRATIVES
AND UPDATED EXHIBIT LIST**

Pursuant to 37 C.F.R. § 42.70(b), Petitioner is hereby filing a copy of its demonstratives for the oral hearing as Exhibit 1045.

UPDATED TABLE OF EXHIBITS

Exhibit No.	Description
1001	U.S. Patent No. 8,723,164
1002	File History for U.S. Patent No. 8,723,164
1003	Declaration of Dr. Russell Holmes
1004	U.S. Patent Application Publication No. 2007/0069636 (Choulis)
1005	Japanese Published Application No. 2001/110568 (Sugiura)
1006	Certified English Translation of Japanese Published Application No. 2001/110568 (Sugiura)
1007	U.S. Patent Application Publication No. 2004/0155238 (Thompson)
1008	Chinese Published Application No. 1,582,073 (Yong)
1009	Certified English Translation of Chinese Published Application No. 1,582,073 (Yong)
1010	H.Y. Kang and C.H. Lee, <i>Electroluminescence Properties of Organic Light-Emitting Diodes with a Red Dye Doped into Alq3: Rubrene Mixed Host</i> , 45(3) J. Korean Physical Soc'y 756–760 (Sept. 2004) (Kang)
1011	Wenbo Li et al., <i>Organic Long-Persistent Luminescence from a Thermally Activated Delayed Fluorescence Compound</i> , 32 Adv. Mater. 2003911 (2020) (Li)
1012	Chaoxing Wu et al., <i>Efficient tristable resistive memory based on single layer graphene/insulating polymer multi-stacking layer</i> , 104 Appl. Phys. Lett. 183105 (2014) (Wu)
1013	U.S. Patent Publication No. 2008/0116536 (Forrest)
1014	INTENTIONALLY LEFT BLANK
1015	Sung Hyun Kim et al., <i>Relationship between host energy levels and device performances of phosphorescent organic light-emitting diodes with triplet mixed host emitting structure</i> , 91 Appl. Phys. Lett. 083511 (2007)

Exhibit No.	Description
1016	R.J. Holmes et al., <i>Efficient, deep-blue organic electrophosphorescence by guest charge trapping</i> , 83 Appl. Phys. Lett. 3818–3820 (2003)
1017	X.H. Yang and D. Neher, <i>Polymer electrophosphorescence devices with high power conversion efficiencies</i> , 84 Appl. Phys. Lett. 2476–2478 (2004)
1018	Stelios A. Choulis et al., <i>The effect of interfacial layer on the performance of organic light-emitting diodes</i> , 87 Appl. Phys. Lett. 113503 (2005)
1019	INTENTIONALLY LEFT BLANK
1020	INTENTIONALLY LEFT BLANK
1021	Zoran D. Popovic and Hany Aziz et al., <i>Reliability and Degradation of Small Molecule-Based Organic Light-Emitting Devices (OLEDs)</i> , VOL. 8, NO. 2 IEEE Journal on Selected Topics in Quantum Electronics 362 (2002)
1022	Stelios A. Choulis et al., <i>Highly efficient organic electroluminescent device with modified cathode</i> , 88 Appl. Phys. Lett. 203502 (2006)
1023	S. Ouro Djobo et al., <i>Poly(N-vinylcarbazole) (PVK) deposited by evaporation for light emitting diodes thin films structures</i> , 122 Metals 131–133 (2001)
1024	Yuji Hamada et al., <i>Red organic light-emitting diodes using an emitting assist dopant</i> , 75 Appl. Phys. Lett. 1682–1684 (1999)
1025	Hiroshi Kanno et al., <i>White Stacked Electrophosphorescent Organic Light-Emitting Devices Employing MoO₃ as a Charge-Generation Layer</i> , 18 Adv. Mater. 339–342 (2006)
1026	Docket Control Order, <i>Pictiva Displays International Ltd. v. Samsung Electronics Co., Ltd., et al.</i> , Case No. 2:23-cv-00495, Dkt. #40 (E.D. Tex. Apr. 17, 2024)
1027	Stipulation made by Defendants in <i>Pictiva Displays Int’l Ltd. v. Samsung Elecs. Co.</i> , No. 2:23-cv-0495 (E.D. Tex.)
1028	Curriculum Vitae of Dr. Russell J. Holmes
1029	Declaration of Hyun S. Byun in Support of Petitioner’s Notice of Intent to Designate Hyun S. Byun as Back-up Counsel under 37 C.F.R. § 42.10
1030	Memorandum Claim Construction Opinion And Order, in <i>Pictiva Displays Int’l Ltd. v. Samsung Elecs. Co.</i> , No. 2:23-cv-0495 (ECF 397) (E.D. Tex. June 27, 2025)

Exhibit No.	Description
1031	Yuichiro Kawamura et al., <i>Intermolecular Interaction and a Concentrations-Quenching Mechanism of Phosphorescent Ir(III) Complexes in a Solid Film</i> , 96 Physical Rev. Letters 017404 (2006)
1032	Sebastian Reinecke, <i>Highly Phosphorescent Organic Mixed Films: The Effect of Aggregation on Triplet-Triplet Annihilation</i> , 94 Appl. Phys. Lett. 163305 (2009)
1033	Zhenzhen Li et al., <i>Pure-blue Fluorescent Organic Light-Emitting Diodes by Co-Doping a Supplementary Host Material Into a Light-Emitting Layer as an Electron Transport Ladder</i> , 8 J. Mater. Chem. C 3438 (2020)
1034	Junji Kido et al., <i>Organic Electroluminescent Devices Based on Molecularly Doped Polymers</i> , 61 Appl. Phys. Lett. 761 (1992)
1035	Dongge Ma et al., <i>Bright Blue Electroluminescent Devices Utilizing Poly (N-vinylcarbazole) Doped With Fluorescent Dye</i> , 91 Synthetic Metals 331 (1997)
1036	Kenichi Goushi et al., <i>Unusual Phosphorescence Characteristics of Ir(ppy)₃ in a Solid Matrix at Low Temperatures</i> , 43 Jap. J. Appl. Phys. L937 (2004)
1037	Y. Kawabe and J. Abe, <i>Electron Mobility Measurement Using Exciplex-Type Organic Light-Emitting Diodes</i> , 81 Appl. Phys. Lett. 493 (2002)
1038	Tsung-Syun Huang et al., <i>Study of Organic Thin Film Transistor with Polymethylmethacrylate as a Dielectric Layer</i> , 91 Appl. Phys. Lett. 092116 (2007)
1039	Hsin-Hua Chang et al., <i>Graded Doping Profiles for Reduction of Carrier Trapping in Organic Light-Emitting Devices Incorporating Dropped Polymers</i> , 78 Appl. Phys. Lett. 574 (2001)
1040	Chung-Chih Wu et al., <i>Finite-Source Dye-Diffusion Thermal Transfer for Doping and Color Integration of Organic Light-Emitting Devices</i> , 77 Appl. Phys. Lett. 794 (2000)
1041	E.H. Martin and J. Hirsch, <i>Determination of Carrier Mobility in Plastics by a Time-Of-Flight Method</i> , 7 Solid State Communications 783 (1969)

Exhibit No.	Description
1042	Noriyuki Matsusue et al., <i>Charge Carrier Transport in Neat Thin Films of Phosphorescent Iridium Complexes</i> , 44 Jap. J. Appl. Phys. 3691 (2005)
1043	Deposition Transcript of Dr. Marc Sims, taken July 31, 2025
1044	Reply Declaration of Dr. Russell Holmes
1045	Petitioner's Hearing Demonstratives

Date: October 22, 2025

Respectfully submitted,
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CERTIFICATE OF SERVICE

Pursuant to 37 C.F.R. § 42.6, I hereby certify that the foregoing Notice of Filing of Petitioner's Hearing Demonstratives and Updated Exhibit List, together with Exhibit 1045, was served on the Patent Owner by electronic mail to the following counsel of record for Patent Owner:

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