UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

HANWHA SOLUTIONS CORPORATION,

Petitioner,

v.

MAXEON SOLAR PTE. LTD.,
Patent Owner.

Case No. IPR2024-01198
U.S. Patent No. 11,251,315

PETITIONER'S CORRECTED TABLE OF EXHIBITS

Petitioner Hanwha Solutions Corporation respectfully submits a Corrected Table of Exhibits. The Table of Exhibits filed with Petitioner's Reply on August 14, 2025 contained an error in the description for Exhibit 1124. The exhibit itself is correct, and Petitioner's Corrected Table of Exhibits (attached to this filing) reflects the correct description for Exhibit 1124. Petitioner received authorization from the Board to file this Corrected Table of Exhibits on September 16, 2025.

Respectfully submitted,

Date: September 18, 2025

By: /David L. Cavanaugh/
David L. Cavanaugh
Registration No. 36,476

Counsel for Petitioner

Petitioner's Corrected Table of Exhibits

No.	Description
1001	U.S. Patent No. 11,251,315 B2 ("USP315")
1002	File History for U.S. Patent No. 11,251,315 B2 (App. No. 16/877,255) ("USP315FH")
1003	Declaration of Dr. Zachary Holman Regarding U.S. Patent No. 11,251,315 ("Decl.")
1004	Declaration of June Munford ("Munford-Decl.")
1005	Complaint for Patent Infringement, *Maxeon Solar Pte. Ltd. v. Hanwha Solutions Corp., et al.*, Civil Action No. 2:24-cv-262 (E.D. Tex. Apr. 19, 2024), ECF No. 1 ("Complaint")
1006	U.S. Patent App. Pub. No. 2014/0311567 ("Choi")
1007	U.S. Patent No. 8,207,444 ("Cousins")
1008	D.C. Marvin, S.L. Froedege, "Interdigitated Back Contact Solar Cell Analysis and Design Recommendations for Space Use," Space Systems Division Air Force Systems Command, Report 88D-TR-90-04 ("Marvin")
1009	RESERVED
1010	F. Granek, High-Efficiency Back Contact Back-Junction Silicon Solar Cells (2009) (Ph.D. Dissertation, Fraunhofer Institute for Solar Energy Systems ISE) ("Granek")
1011	U.S. Patent App. Pub. No. 2013/0240029 ("Smith")
1012	A.A. Istratov, H. Väinölä, W. Huber, E. R. Weber, "Gettering in silicon-on-insulator wafers: experimental studies and modelling," Semicond. Sci. Technol. 20: 568–575 (April 2005) ("Istratov")
1013	EP1732142A1 ("Froitzheim")
1014	JP07-106611 ("Okayasu") (Translation)
1015	Translation Declaration for Okayasu
1016	N. G. Tarr, "A polysilicon emitter solar cell," IEEE Electron Device Letters, vol. 6, no. 12, pp. 655-658, Dec. 1985 ("Tarr")

No.	Description
1017	U.S. Patent No. 6,262,359 ("Meier")
1018	Zachary C. Holman, Electron Transport in Amorphous Silicon (May 2005) (Thesis Presented to The Division of Mathematics and Natural Sciences, Reed College) ("Holman-Thesis")
1019	P.J. Verlinden, R.A. Sinton, K. Wickham, R.A. Crane, and R.M. Swanson, "Backside-contact silicon solar cells with improved efficiency for the `96 world solar challenge," in Proceedings of the 14th European Photovoltaic Solar Energy Conference, Barcelona, Spain, 96-9 (1997) ("Verlinden")
1020	R.A. Sinton and R.M. Swanson, "Simplified backside-contact solar cells," IEEE Transactions on Electron Devices, 37 (2), 348-52, (1990) ("Sinton")
1021	R.R. King, R.A. Sinton, R.M. Swanson, "Studies of Diffused Phosphorous Emitters: Saturation Current, Surface Recombination Velocity, and Quantum Efficiency," IEEE Transactions On Electron Devices, Vol. 37, No. 2 (Feb. 1990) ("King")
1022	W.P. Mulligan, D.H. Rose, M.J. Cudzinovic, D.M. De Ceuster, K.R. McIntosh, D.D. Smith, and R.M. Swanson, Manufacture of solar cells with 21% efficiency, in Proceedings of the 19th European Photovoltaic Solar Energy Conference, Paris, France, 387-90 (2004) ("Mulligan")
1023	J. Nelson, The Physics of Solar Cells, Imperial College Press, Chapters 1, 3, 4, 7, 9, 10 (2003) ("Nelson")
1024	R. F. Pierret, Semiconductor Device Fundamentals, Addison-Wesley Publishing Company, Inc., Excerpts from Chapters 1-4 (1996) ("Pierret")
1025	S.J. Fonash, Solar Cell Device Physics, Elsevier, Excerpts from Chapter 2 (2d Ed. 2010) ("Fonash")
1026	C. Hu, R.M. White, Solar Cells: From Basics to Advanced Systems, McGraw-Hill, Chapter 3 (1983) ("Hu")

No.	Description
1027	O. von Roos, B. Anspaugh, "The Front Surface Field Solar Cell, A New Concept," Proceedings of the 13th IEEE PVSEC, pp. 1119-1120 (1978) ("von Roos")
1028	E. van Kerschaver, G. Beaucarne, "Back-contact Solar Cells: A Review," Prog. Photovolt: Res. Appl. 14:107-123 (2005) ("van Kerschaver")
1029	U.S. Patent No. 8,222,516 B2 ("USP516")
1030	U.S. Patent No. 4,234,352 ("Swanson-352")
1031	J. Bultman, I. Cesar, B. Geerligs, Y. Komatsu, W. Sinke, "Methods of emitter formation for crystalline silicon solar cells," Photovoltaics International 6, pp. 69-80 (2012) ("Bultman")
1032	U.S. Patent No. 5,444,001 ("Tokuyama")
1033	I. Perichaud, "Gettering of impurities in solar silicon," Solar Energy Materials & Solar Cells 72:315–326 (2002) ("Perichaud")
1034	Mark John Kerr, Surface, Emitter and Bulk Recombination in Silicon and Development of Silicon Nitride Passivated Solar Cells (2002) (Ph.D. Thesis, The Australian National University) ("Kerr")
1035	U.S. Patent App. Pub. No. 2012/0006392 ("Gupta")
1036	File History for US 9,520,507 B2 (App. No. 14/579,935) ("USPA935FH")
1037	File History for US 9,899,542 B2 (App. No. 15/213,273) ("USPA273FH")
1038	File History for US 10,170,642 B2 (App. No. 15/876,927) ("USPA927FH")
1039	File History for US 10,658,525 B2 (App. No. 16/228,165) ("USPA165FH")
1040	P. Procel, V. Maccaronio, F. Crupi, G. Cocorullo, M. Zanuccoli, "Analysis of the Impact of Rear Side Geometry on Performance of Back-Contact Back-Junction Solar Cells," 2014 Fotonica AEIT Italian Conference on Photonics Technologies, Naples, Italy, 2014, pp. 1-4, IEEE (2014) ("Procel")

No.	Description
1041	M. Hermle, F. Granek, O. Schultz, S. W. Glunz, "Analyzing the effects of front-surface fields on back-junction silicon solar cells using the charge-collection probability and the reciprocity theorem," J. Appl. Phys. 103, 054507 (2008) ("Hermle")
1042	J. E. Cotter, J. H. Guo, P. J. Cousins, M. D. Abbott, F. W. Chen, K. C. Fisher, "P-Type Versus n-Type Silicon Wafers: Prospects for High-Efficiency Commercial Silicon Solar Cells," IEEE TRANSACTIONS ON ELECTRON DEVICES, VOL. 53, NO. 8, (Aug. 2006) ("Cotter")
1043	S.W. Glunz, R. Preu, D. Biro, "Chapter 1.16: Crystalline Silicon Solar Cells – State-of-the-Art and Future Developments," Comprehensive Renewable Energy, Elsevier (2012)
1044	P.J. Verlinden, R. M. Swanson, R. A. Crane, "7000 High-efficiency Cells for a Dream," Progress In Photovoltaics Research and Applications, VOL 2. 143-152 (1994) ("Verlinden-1994")
1045	U.S. Patent No. 4,665,277 ("Sah")
1046	M. Green, "Silicon solar cells: evolution, high-efficiency design and efficiency enhancements," Semiconductor Science & Technology 8 (1993) ("Green")
1047	A.A. Istratov, H. Hieslmair, E.R. Weber, "Iron contamination in silicon technology," Appl. Phys. A 70, 489–534 (2000) ("Istratov-2000")
1048	A. Metz, R. Meyer, B. Kuhlmann, M. Grauvogl, R. Hezel, 18.5% Efficient First-Generation MIS Inversion-Layer Silicon Solar Cells, 26th PVSC (1997) ("Metz")
1049	D. De Ceuster, P. Cousins, D. Rose, D. Vicente, P. Tipones, W. Mulligan, "Low Cost, High Volume Production of >22% efficiency silicon solar cells," 22nd European Photovoltaic Solar Energy Conference, 3-7 September 2007, Milan, Italy, pp. 816-819 ("De Ceuster")
1050	RESERVED
1051	M.D. Lammert and R.J. Schwartz, "The interdigitated back contact solar cell: a silicon solar cell for use in concentrated sunlight," IEEE

No.	Description
	Transactions on Electron Devices, ED-24 (4), 337-42, (1977) ("Lammert")
1052	D. Lysáček, M. Lorenc, L. Válek, "Structure and gettering properties of polycrystalline silicon layers," Proceedings of the 16th Joint Seminar Development of Materials Science in Research and Education, Czechoslovak Association for Crystal Growth, published by Czech and Slovak Crystallographic Association, Praha 2006 (ISBN 80-901748-7-6) p. 40-41 ("Lysacek")
1053	K. Ishisaka, H. Tanaka, T. Nakashizu, "Gettering Properties of Silicon Wafer Covered by Polysilicon," NIPPON STEEL TECHNICAL REPORT No. 59 (Oct. 1993) ("Nippon")
1054	BP Solar Global Marketing, BP-MSX-120, 120-Watt Multicrystalline Photovolataic Module ("BP-MSX-120")
1055 – 1056	RESERVED
1057	P. Stradins, A. Dameron, S. Essig, V. Lasalvia, B. Lee, Y. Liu, J. Luo, W. Nemeth, A. Norman, M. Page, "Passivated Tunneling Contacts to N-Type Wafer Silicon and Their Implementation into High Performance Solar Cells," NREL Conference Paper (Dec. 2014) ("Stradins")
1058	D. M. Chapin, C. S. Fuller, G. L. Pearson, "A New Silicon p-n Junction Photocell for Converting Solar Radiation into Electrical Power," Journal of Applied Physics 25, 676 (1954) ("Chapin")
1059	W. Shockley, H. J. Queisser, "Detailed Balance Limit of Efficiency of pn Junction Solar Cells," J. Appl. Phys. 32, 510 (1961) ("Shockley")
1060	A. Goetzberger, W. Shockley, "Metal Precipitates in Silicon p-n Junctions," J. Appl. Phys. 31, 1821–1824 (1960) ("Goetzberger")
1061	S.W. Ing, Jr., R.E. Morrison, L.L. Alt, R. W. Aldrich, "Gettering of Metallic Impurities from Planar Silicon Diodes," J. Electrochem. Soc. Vol. 110, No. 6 pp. 533-537 (1963) ("Ing")
1062	E. J. Mets, "Poisoning and Gettering Effects in Silicon Junctions," J. Electrochem. Soc. Vol. 112, No. 4, pp. 420-425 (1965) ("Mets")

No.	Description
1063	Petition for Inter Partes Review of U.S. Patent No. 11,251,315, Canadian Solar Inc. v. Maxeon Solar Pte. Ltd., Case No. IPR2024-01038, Paper 1 (June 25, 2024) ("CSI-1038-Petition")
1064	A. A. Istratov, W. Huber, E. R. Weber, "Experimental evidence for the presence of segregation and relaxation gettering of iron in polycrystalline silicon layers on silicon," Appl. Phys. Lett. 85, 4472–4474 (2004) ("Istratov-2004")
1065	KR1020130044982 ("Choi-982") (Translation)
1066	Translation Declaration for Choi-982
1067	RESERVED
1068	U.S. Patent No. 6,998,288 ("Smith-288")
1069	CN 1949545A to Li ("Li") (Translation)
1070	Translation Declaration for Li
1071	RESERVED
1072	R. J. Komp, Practical Photovoltaics Electricity From Solar Cells, 3rd Ed., Chapters 1-3, 6 (2002) ("Komp")
1073	T. Krygowski, A, Rohatgi, D. Ruby, Simultaneous P and B Diffusion, IN-SITU Surface Passivation, Impurity Filtering and Gettering for High-Frequency Silicon Solar Cells, 26 IEE Photovoltaic Specialists Conf. 29 September - 03 October, 1997 Anaheim, CA (1997) ("Krygowski")
1074	J. Benick, J. Rentsch, Ch. Schetter, C. Voyer, D. Biro, R. Preu, PECVD PSG as a Dopant Source for Industrial Solar Cells, Presented at the 21st European Photovoltaic Solar Energy Conference, September 4-8, 2006, Dresden (2CV.4.26) ("Benick")
1075	M. Green, Silicon Solar Cells Advanced Principles & Practice, Centre for Photovoltaic Devices and Systems, Chapters 2, 10 (1995) ("Green-1995")
1076	Petition for Inter Partes Review of U.S. Patent No. 11,251,315, Canadian Solar Inc. v. Maxeon Solar Pte. Ltd., Case No. IPR2024-01194, Paper 1 (July 19, 2024) ("CSI-1194-Petition")

No.	Description
1077	B. Paudyal, Y. H. Yoon, D. Cornwell, P. Shaw, F. Machuca, "Identification of metal impurities in crystalline silicon wafers," IEEE (2011)
1078	S. Pizzini, M. Acciarri, S. Binetti, "From electronic grade to solar grade silicon: chances and challenges in photovoltaics," phys. stat. sol. (a) 202, No. 15, 2928–2942 (2005) ("Pizzini")
1079	U.S. Patent No. 9,496,437 ("Harley")
1080	U.S. Pat. App. Pub. No. 2013/0164879 ("Cousins-2011")
1081	"Cypress Announces Investment In Designer and Manufacturer Of Ultra-High-Efficiency Silicon Solar Cells" available at https://investors.sunpower.com/static-files/103bae51-d5a4-46f3-ae4c-efc7d65b968a (last accessed Aug. 6, 2024) ("Sunpower-2002")
1082	"SunPower Announces World's Most Efficient, Low-Cost Silicon Solar Cell" available at https://investors.sunpower.com/static-files/4e352cd3-71ed-45ca-a441-165e996c8222 (last accessed Aug. 6, 2024) ("Sunpower-2003")
1083	D.P. Fenning, A.S. Zuschlag, M.I. Bertoni, B. Lai, G. Hahn and T. Buonassisi, Improved iron gettering of contaminated multicrystalline silicon by high-temperature phosphorus diffusion, Journal of Applied Physics, 113, 214504 (2013) ("Fenning")
1084	D.H. Neuhaus and A. Munzer, "Industrial Silicon Wafer Solar Cells," Advances in OptoElectronics, Vol. 2007, Article ID 24521, 1-15 (2007) ("Neuhaus")
1085	Email chain between Counsel and Trial Board, dated December 11-12, 2024
1086	Plaintiff Maxeon Solar Pte. Ltd.'s Disclosure of Asserted Claims and Infringement Contentions, *Maxeon Solar Pte. Ltd. v. Hanwha Solutions Corp., et al.*, Civil Action No. 2:24-cv- 262 (E.D. Tex. Nov. 21, 2024)
1087	Docket Control Order, *Maxeon Solar Pte. Ltd. v. Hanwha Solutions Corp., et al.*, Civil Action No. 2:24-cv- 262 (E.D.

No.	Description
	Tex. Nov. 25, 2024), ECF No. 33
1088	Declaration of Mark D. Selwyn in Support of Petitioner's Notice of Intent to Designate Mark D. Selwyn, a Provisionally Recognized PTAB Attorney, as Back-Up Counsel Pursuant to 37 C.F.R. § 42.10(c)
1089	Reply Declaration of Dr. Zachary Holman Regarding U.S. Patent No. 11,251,315 ("Reply-Decl.")
1090	Deposition Transcript of E. Fred Schubert, July 15, 2025, in *Hanwha Solutions Corp. v. Maxeon Solar Pte, Ltd.*, IPR2024-01198 ("Schubert-Tr.")
1091	Declaration of David L. Carroll, Ph.D., in Support of Patent Owner's Response, April 8, 2025, in *Canadian Solar, Inc. v. Maxeon Solar Pte, Ltd*., IPR2024-01038 ("Carroll-CSI-Decl.")
1092	Deposition Transcript of David L. Carroll, Ph.D., June 18, 2025, in *Canadian Solar, Inc. v. Maxeon Solar Pte, Ltd*., IPR2024-01038 ("Carroll-CSI-Tr.")
1093	Liu et al., Effective impurity gettering by phosphorus- and boron-diffused polysilicon passivating contacts for silicon solar cells, Solar Energy Materials and Solar Cells 179 (2018) 136–141 ("Liu")
1094	Macdonald et al., Transition-metal profiles in a multicrystalline silicon ingot, J. Applied Physics 97, 033523 (2005) ("Macdonald")
1095	Seibt et al., Gettering in silicon photovoltaics: current state and future perspectives, Phys. Stat. Sol. (a) 203, No. 4, 696-713 (2006) ("Seibt")
1096	Istratov, et al., Metal content of multicrystalline silicon for solar cells and its impact on minority carrier diffusion length, J. Applied Physics 94(10) 6552-6559 (2003) ("Istratov-2003")
1097	Hajjiah et al., The Impact of Interstitial Fe Contamination on N-Type Cz-Silicon for High Efficiency Solar Cells, Solar Energy Materials and Solar Cells 211 (2020) ("Hajjiah")
1098-1099	*Reserved*
1100	Buonassisi et al., Transition metals in photovoltaic-grade ingot-cast multicrystalline silicon: Assessing the role of impurities in silicon

No.	Description
	nitride crucible lining material, J. Crystal Growth, 287: 402-407 (2006) ("Buonassisi")
1101	U.S. Pat. App. Pub. No. 2014/0087496 A1 ("Wong-496")
1102	U.S. Patent No. 8,878,053 B2 ("USP053")
1103	D.J. Chin & D.H. Navon, Two-Dimensional Analysis Of The Interdigited Back-Contact Solar Cell, Solid-State Electronics, Vol. 24, Issue 2, 109-114 (1981) ("Chin")
1104	X.M. Dai & Y.H. Tang, A simple general analytical solution for the quantum efficiency of front-surface-field solar cells, Solar Energy Materials and Solar Cells 43, 363-376 (1996) ("Dai")
1105	E. F. Schubert, Doping in III-V Semiconductors, Cambridge University Press (1993) ("Schubert-1993")
1106	E. F. Schubert, Delta Doping in Semiconductors, Cambridge University Press (1996) ("Schubert-1996")
1107	Ben G. Streetman, et al., Solid State Electronic Devices, Pearson Prentice Hall (6th ed. 2006) ("Streetman")
1108	A Dictionary of Electronics and Electrical Engineering (5th ed. 2018), Excerpts ("EE-Dictionary")
1109	Wiley Electrical and Electronics Engineering Dictionary, Oxford University Press (2004), Excerpts ("Wiley-Dictionary")
1110	U.S. Patent App. Pub. No. 2013/0247981 ("Yelundur")
1111	R.R. King, P.E. Gruenbaum, R.A. Sinton, R.M. Swanson, "Passivated Emitters in Silicon Solar Cells," IEEE Conference on Photovoltaic Specialists, Vol. 1, pp. 227-232 (1990) ("King-1990")
1112	J. Schmidt et al., Surface Passivation of High-Efficiency Silicon Solar Cells by Atomic-Layer-Deposited Al_2O_3, Progress in Photovoltaics: Research and Applications, Vol. 16(6), pp. 461-466 (Sept. 2008) ("Schmidt")
1113	B. Hoex, et al., Ultralow Surface Recombination of c-Si Substrates Passivated by Plasma-Assisted Atomic Layer Deposited Al_2O_3, Applied Physics Letters, 89(4) 042112 (2006) ("Hoex-2006")

No.	Description
1114	B. Hoex, et al., Excellent Passivation of Highly Doped P-Type Si Surfaces by the Negative-Charge-Dielectric Al_2O_3, Applied Physics Letters, 91(11) (2007) 112107 ("Hoex-2007")
1115	International Technology Roadmap for Photovoltaic (5th Ed. 2014) (https://www.semi.org/sites/semi.org/files/docs/ITRPV_2014_Roadmap_Revision1_140324.pdf) ("ITRPV")
1116	Johannes Bernreuter, Bernreuter Research, Polysilicon Price Trend (https://www.bernreuter.com/polysilicon/price-trend/) ("Bernreuter")
1117	*Reserved*
1118	A. G. Aberle, Surface Passivation of Crystalline Silicon Solar Cells: A Review, Progress in Photovoltaics: Research and Applications, 8: 473-487 (2000) ("Aberle-2000")
1119	G. Coletti et al., Role of Impurities in Solar Silicon, Chapter 3 in Advanced Silicon Materials for Photovoltaic Applications, Wiley (2012) ("Coletti-2012")
1120	G. Coletti, Impurities in silicon and their impact on solar cell performance, Ph.D. thesis, Utrecht University (2011) ("Coletti-2011")
1121	M. L. Verheijke et al., Application of Neutron Activation Analysis in the Field of Silicon Technology for the Modern Electronic Industry, Journal of Radioanalytical and Nuclear Chemistry, Articles Vol. 113(2) 397-403 (1987) ("Verheijke-1987")
1122	S. Saito et al., Impact of Metal Contamination of 7.0nm Gate Oxides on Various Substrate Materials, Materials Research Society Symposium Proceedings 477, 141-148 (1997) ("Saito")
1123	Errata from the May 8, 2025 Deposition of Dr. Zachary Holman
1124	P.J. Verlinden, High-Efficiency Back-Contact Silicon Solar Cells for One-Sun and Concentrator Applications, Chapter IC-5 *in* Solar Cells Materials, Manufacture and Operation, Elsevier (2^{nd} ed. 2012) ("Verlinden-2012")
1125	C. del Canizo, et al., A Gettering Simulator: Evaluating Contamination and Gettering Processes, 3rd World Conference on Photovoltaic Energy Conversion (2003) ("delCanizo-2003")

No.	Description
1126	J. Hofstetter et al., Impurity-to-efficiency simulator: predictive simulation of silicon solar cell performance based on iron content and distribution, Progress in Photovoltaics: Research and Applications (2010) ("Hofstetter-2010")
1127	J. Hofstetter et al., Towards the tailoring of P diffusion gettering to as-grown silicon material properties, Solid State Phenomena Vols. 178-179, 158-165 (2011) ("Hofstetter-2011")
1128	D. Lan. & M. Green, Extended spectral response analysis of conventional and front surface field solar cells, Solar Energy Materials & Solar Cells 134, 346–350 (2015) ("Lan-2015")
1129	D.A. Clugston & P.A. Basore, "PC1D Version 5: 32-Bit Solar Cell Modeling on Personal Computers," 26th IEEE Photovoltaic Specialists Conf., Oct. 1997, 207-210 ("Clugston")
1130	End of polysilicon shortages in 2008, Silicon Semiconductor (Feb. 19, 2008), https://siliconsemiconductor.net/article/70361/End_of_polysilicon_shortages_in_2008 ("SiS-2008")
1131	J. Hofstetter et al., Acceptable contamination levels in solar grade silicon: From feedstock to solar cell, Materials Science and Engineering B 159-160, 299-304 (2009) ("Hofstetter-2009")
1132	Aerospace Corporation, About Us, Wayback Machine (Nov. 12, 2014), https://web.archive.org/web/20141112022222/http://www.aerospace.org/about-us/ (accessed August 6, 2025) ("Aerospace-About-Us")
1133	Merriam-Webster Online Dictionary, https://www.merriam-webster.com/dictionary/interchange & https://www.merriam-webster.com/dictionary/interchangeable
1134	McGraw-Hill Dictionary of Scientific and Technical Terms, 6th ed. (2003) (excerpts), pp. xiii ("McGraw-Hill-2")
1135	PV Lighthouse, https://www.pvlighthouse.com.au/cms/simulation-programs/pc1d
1136	Deposition Transcript of Douglas S. Ruby, Ph.D., July 31, 2025, in *Hanwha Solutions Corp. v. Maxeon Solar Pte, Ltd.*, IPR2024-01199, IPR2024-01203 ("Ruby-Tr.")

No.	Description
1137	Laades, et al., Iron gettering in CZ silicon during the industrial solar cell process, Solid State Phenomena, Vols. 156-158, pp. 381-386 (2009) ("Laades")
1138	A. Liu et al., Gettering in silicon photovoltaics: A review, Solar Energy Materials and Solar Cells 234, 111447 (2022) ("Liu-2022")
1139	M.B. Shabani et al., Metallic Impurities in Mono and Multi-crystalline Silicon and Their Gettering by Phosphorus Diffusion, ECS Transactions, 16 (6) 179-193 (2008)

CERTIFICATE OF SERVICE

I hereby certify that, on September 18, 2025, I caused a true and correct copy of the following materials:

- Petitioner's Corrected Table of Exhibits

to be served via electronic service on the counsel of record for Patent Owner:

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