UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

CANADIAN SOLAR INC.,
Petitioner,

v.

MAXEON SOLAR PTE. LTD.,
Patent Owner.

IPR2024-01038[1]
Patent No. 11,251,315 B2

PETITIONER'S UPDATED EXHIBIT LIST

[1] IPR2024-01194 has been consolidated with the instant proceeding.

Exhibit #	Reference Name
1001	U.S. Patent No. 11,251,315 to Smith et al. ("315 Patent")
1002	File History of U.S. Patent Application No. 16/877,255
1003	Declaration of Sanjay Banerjee, Ph.D. Regarding U.S. Patent No. 11,251,315
1004	Curriculum Vitae of Sanjay Banerjee, Ph.D.
1005	U.S. Patent Pub. No. 2011/0214719, "Method of Fabricating a Back-Contact Solar Cell and Device Thereof." ("Li")
1006	King, Sinton and 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")
1007	Marvin and Froedge, "Interdigitated Back Contact Silicon Solar Cell Analysis and Design Recommendations for Space Use," AD-A220-414 (Sept. 30, 1989) ("Marvin-DTIC")
1008	Muller et al., "Ion Implantation for All-Alumina IBC Solar Cells with Floating Emitter," Energy Procedia 55 (2014), 265-271 ("Muller")
1009	Reserved
1010	Luque and Hegedus, Handbook of Photovoltaic Science and Engineering (2002) ("Luque")
1011	Neuhaus and Munzer, *Industrial Silicon Wafer Solar Cells*, Advances in OptoElectronics, 1-15, at 11 (2007) ("Neuhaus")
1012	U.S. Patent No. 7,468,485 to Swanson ("Swanson-485")
1013	Complaint, *Maxeon Solar Pte. Ltd. v. Canadian Solar, Inc.,* Case No. 2:24-cv-210 (E.D. Tex., filed March 25, 2024)
1014	U.S. Patent Pub. No. 2007/0256728

Exhibit #	Reference Name
1015	U.S. Patent No. 4,234,352 ("Swanson-352")
1016	Seibt et al., "Gettering in silicon photovoltaics: current state and future perspectives," phys. stat. sol. (a) 203, No. 4, 696–713 (2006) ("Seibt")
1017	U.S. Patent No. 4,053,335 to Hu ("Hu")
1018	Ferre, et al., "Simultaneous gettering and emitter formation in multicrystalline-Si wafers by annealing phosphorus doped amorphous silicon compounds," Applied Physics Letters 98, 022102 (2011) ("Ferre")
1019	Vahanissi et al., "Gettering of Iron in Silicon Solar Cells with Implanted Emitters," IEEE Journal of Photovoltaics (Volume: 4, Issue: 1, January 2014) ("Vahanissi")
1020	U.S. Patent Pub. No. 2010/0105190 A1 ("Tomas")
1021	Buonassisi, et al. "Transition metals in photovoltaic-grade ingot-cast multicrystalline silicon: Assessing the role of impurities in silicon nitride crucible lining material," Journal of Crystal Growth 287 (2006) 402–407 ("Buonassisi")
1022	2013 Renewable Energy Data Book, U.S. Department of Energy (2013) ("REDB-2013")
1023	Declaration of Sylvia Hall-Ellis
1024	Curriculum Vitae of Sylvia Hall-Ellis
1025	Ramappa and Benley, "Diffusion of Iron in Silicon Dioxide," Journal of the Electrochemical Society 146(1) 3773-3777 (1999) ("Ramappa")
1026	U.S. Patent Pub. No. 2006/0118868 A1 ("Yoshimura")
1027	Reserved

Exhibit #	Reference Name
1028	Liu et al., "Direct Observation of the Impurity Gettering Layers in Polysilicon-Based Passivating Contacts for Silicon Solar Cells," ACS Appl. Energy Mater. 2018, 1, 2275−2282 ("Liu-1")
1029	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-2")
1030	DocketNavigator Report
1031	Fintiv Study https://www.law360.com/articles/1436071/print?section=ip
1032	Senator Tillis Letter
1033	Reserved
1034	Reserved
1035	Marvin and Froedge, "Analysis of Interdigitated Back Contact Silicon Solar Cells for Space Use," IEEE (1989) ("Marvin-IEEE")
1036	Rohatgi et al, "High-Throughput Ion-Implantation for Low-Cost High Efficiency Silicon Solar Cells," Energy Procedia 15 (2012), 10-19 ("Rohatgi")
1037	Reserved
1038	Reserved
1039	Reserved
1040	NTIS Signed Attestation re: "Interdigitated Back Contact Silicon Solar Cell Analysis and Design Recommendations for Space Use" ("ADA220414")
1041	Kiyota et al., "Phosphorus Direct Doping from Vapor Phase into Silicon for Shallow Junctions," J. Electrochem. Soc. 141(8) 2241-2244 (August 1994) ("Kiyota")

Exhibit #	Reference Name
1042	French, "Polysilicon: a versatile material for microsystems," Sensors and Actuators A 99 (2002) 3-12.
1043	Green, "Intrinsic concentration, effective densities of states, and effective mass in silicon," J. Appl. Phys. 67, 2944 (1990) ("Green")
1044	Henry, "Limiting efficiencies of ideal single and multiple energy gap terrestrial solar cells," J. Appl. Phys. 51, 4494 (1980) ("Henry")
1045	Birkmire et al., "Harnessing the Sun with Thin-Film Photovoltaics," NREL (April 1999) ("Birkmire")
1046	Ghoshtagore, "Silicon Dioxide Masking of Phosphorus Diffusion in Silicon," Solid-State Elements Vol. 18 (1975) ("Ghoshtagore")
1047	Muller et al., "Ion Implantation for All-Alumina IBC Solar Cells with Floating Emitter," Energy Procedia 55 (2014), 265-271, https://www.sciencedirect.com/science/article/pii/S1876610214013022 ("Muller Science Direct Webpage")
1048	IEEE Xplore, "IEEE Xplore Resources and Help: Publication Dates," https://ieeexplore.ieee.org/Xplorehelp/ieee-xplore-training/working-with-documents#publication-dates
1049	IEEE Xplore King Entry, https://ieeexplore.ieee.org/document/46368
1050	U.S. Patent No. 8,124,502
1051	Science Direct Liou Entry, https://www.sciencedirect.com/science/article/abs/pii/092702489290104W
1052	IEEE Xplore Yang Entry, https://ieeexplore.ieee.org/document/6924717
1053	Reserved
1054	IEEE Xplore Marvin Entry, https://ieeexplore.ieee.org/document/74564

Exhibit #	Reference Name
1055	WO 2007/022955 A1
1056	IEEE Xplore Slaoui Entry, https://ieeexplore.ieee.org/document/1190463
1057	Science Direct Kalkofen Entry, https://www.sciencedirect.com/science/article/abs/pii/S0921510704003654
1058	Wiley Online Library Seibt Entry, https://onlinelibrary.wiley.com/doi/abs/10.1002/pssa.200664516
1059	Science Direct Haarahiltunen Entry, https://www.sciencedirect.com/science/article/abs/pii/S0921510708005163
1060	IEEE Xplore Holt Entry, https://ieeexplore.ieee.org/abstract/document/4922483
1061	Semantic Scholar Ferre Entry, https://www.semanticscholar.org/paper/Simultaneous-gettering-and-emitter-formation-in-by-Ferre%CC%81-Mart%C3%ADn/1d060d97443c0ccad7bc812e7cc12b2c0afedbe1
1062	Science Direct Paviet-Salomon Entry, https://www.sciencedirect.com/science/article/abs/pii/S0921510712005661
1063	IEEE Xplore Cho Entry, https://ieeexplore.ieee.org/document/6925554
1064	Science Direct Reimann Entry, https://www.sciencedirect.com/science/article/abs/pii/S0022024810000758
1065	Science Direct Bentzen Entry, https://www.sciencedirect.com/science/article/abs/pii/S0921510708005060

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1066	IEEE Xplore Mutoh Entry, https://ieeexplore.ieee.org/document/1348791
1067	IEEE Xplore Bello Entry, https://ieeexplore.ieee.org/document/1529625
1068	IEEE Xplore Stavrides Entry, https://ieeexplore.ieee.org/document/1488115
1069	*Maxeon Solar PTE. Ltd. v. Canadian Solar, Inc.*, No. 2:24-cv-210 (E.D. Tex. July 12, 2024), Plaintiff Maxeon Solar PTE. Ltd.'s Disclosure of Asserted Claims and Infringement Contentions
1070	E.D. Tex. Patent Rule 3-6
1071	EXPUNGED
1072	EXPUNGED
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1083	EXPUNGED
1084	EXPUNGED
1085	EXPUNGED
1086	Declaration of Leif E. Peterson, II
1087	June 18, 2025 Deposition Transcript of David L. Carroll, Ph. D.
1088 – 1099	Reserved
1100	Previously EX1003 in IPR2024-01194 – Declaration of Sanjay Banerjee, Ph.D.
1101	Previously EX1023 in IPR2024-01194 – Declaration of Sylvia D. Hall-Ellis
1102	Previously EX1069 in IPR2024-01194 – Patent Trial and Appeal Board Rules of Practice for Briefing Discretionary Denial Issues, and Rules for 325(d) Considerations, Instituting Parallel and Serial Petitions, and Termination Due to Settlement Agreement (Fed. Register, Apr. 19, 2024)
1103	Previously EX1087 in IPR2024-01194 – Supplemental Declaration of Sanjay Banerjee, Ph.D.
1104 [NEW]	Petitioner's Demonstrative Exhibit

Dated: October 9, 2025

Respectfully submitted,

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CERTIFICATE OF SERVICE

I hereby certify that on this 9th day of October, 2025, a copy of the foregoing and accompanying exhibits, has been served in its entirety by electronic mail on the following counsel of record for patent owner:

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