UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

SEG MANUFACTURING INC., NEW ENERGY IMPORTS INC., SEG SOLAR INC., PT. SEG SOLAR MANUFAKTUR INDONESIA, and SEG ENERGY SINGAPORE PTE. LTD.

Petitioners

v.

SHANGHAI JINKO GREEN ENERGY ENTERPRISE MANAGEMENT CO., LTD. and ZHEJIANG JINKO SOLAR CO., LTD.,

Patent Owner

Case No. IPR2026-00230
Patent 11,824,136

PETITIONERS' UPDATED EXHIBIT LIST

LIST OF EXHIBITS

Exhibit #	Description
EX1001	U.S. Patent No. 11,824,136 to Yu et al. ("the '136 Patent")
EX1002	CV of Petitioners' Expert Dr. Fred Shubert
EX1003	Expert Declaration of Petitioners' Expert Dr. Fred Shubert
EX1004	Chinese Patent No. CN112259614A to Ye et al. ("*Ye*")
EX1005	Chinese Patent No. CN105826411B to Yun et al. ("*Yun*")
EX1006	Chinese Patent No. CN111690987A to Xia et al. ("Xia")
EX1007	File History of the '454 Patent (Parent of the '136 Patent)
EX1008	[Reserved]
EX1009	PCT International Publication No. WO2016/129481 to Sakai ("Sakai")
EX1010	Chinese Patent No. CN112635591A to Tong et al. ("Tong")
EX1011	Taiwan Patent No. TWI589655B to Zhang et al. ("Zhang")
EX1012	Basu, P.K. et al. (2015), The effect of front pyramid heights on the efficiency of homogeneously textured inline-diffused screen-printed monocrystalline silicon wafer solar cells, *Renewable Energy,* 78, (590-598). http://dx.doi.org/10.1016/j.renene.2015.01.058 ("Basu Paper")
EX1013	Guan, L. et al. (2019), Double-sided pyramid texturing design to reduce the light escape of ultrathin crystalline silicon solar cells, *Optics and Laser Technology,* 120, (1-7). https://doi.org/10.1016/j.optlastec.2019.105700 ("Guan Paper")
EX1014	Lozach M. et al. (2020), Role of silicon surface polished <100> and <111> or textured on the efficiency of double-sided TOPCon solar cells, *Progress in Photovoltaics* 28, (1001-1011).

	https://onlinelibrary.wiley.com/doi/abs/10.1002/pip.3304 ("Lozach Book")
EX1015	Arvind Shah, Solar Cells and Modules, Spring Series in Materials Science Vol. 301 (2020) ("Shah Book")
EX1016	Yu, et al. (2021). Selective tunnel oxide passivated contact on the emitter of large-size N-type TOPCon bifacial solar cells. *Journal of Alloys and Compounds*, 870, 159679-686. ("Yu Paper")
EX1017	Chinese Patent No. CN113193074A to Du et al. ("Du")
EX1018	File History of the '136 Patent
EX1019	Claim listing for the '136 Patent
EX1020	Librarian Declaration of Sylvia D. Hall-Ellis, PH.D.
EX1021	Exhibit 2 of Patent Owner's Complaint in SDTX-4:25-cv-05226
EX1022	U.S. Patent No. US20180277701A1 to Lenes et al. ("Lenes")
EX1023	U.S. Patent No. US11456391B2 to Chang et at. ("Chang")
EX1024	Kim, Y., Lee, H., & Park, J. (2008). Texturing of large area multi-crystalline silicon wafers through different chemical approaches for solar cell fabrication. *Solar Energy Materials & Solar Cells,* 92(9), 960-964. ("Kim-1 Paper")
EX1025	Papet, P., et al. (2006). Pyramidal texturing of silicon solar cell with TMAH chemical anisotropic etching. *Solar Energy Materials and Solar Cells*, 90, 2319-2325. ("Papet Paper").
EX1026	Kim, H., et al. "Effect of Surface Treatment by Chemical-Mechanical Polishing for Transparent Electrode of Perovskite Solar Cells." *Energies*, vol. 13, no. 585, 2020. ("Kim-2 Paper")
EX1027	Le, Jianbo, et al. "Mechanisms of Surface and Subsurface Damage of Silicon Wafers Induced by External Stress During Nano-Polishing" *Ceramics International*, 2025. ("Le Paper")
EX1028	Li, Yiwei, et al. "The Effect of Chemical Polishing Treatment on the

	Microstructure and Photoelectric Properties of CdZnTe Polycrystalline Films." 2021. ("Li Paper")
EX1029	Chinese Patent No. CN109802007B to Zeng et al. ("Zeng")
EX1030	K. A.W. Horowitz et al., *A Techno-Economic Analysis and Cost Reduction Roadmap for III-V Solar Cells*, NREL/TP-6A20-72103 (Nat'l Renewable Energy Lab'y, Nov. 2018) ("Horowitz Report")
EX1031	B. G. Priyadarshini et al., *Design of Multi-Layer Anti-Reflection Coating for Terrestrial Solar Panel Glass*, 39 Bull. Mater. Sci. 683 (June 2016) (Priyadarshini Paper)
EX1032	J.-Q. Xi et al., *Optical Thin-Film Materials with Low Refractive Index for Broadband Elimination of Fresnel Reflection*, 1 Nature Photonics 176 (Mar. 1, 2007) ("Xi Paper")
EX1033	Panadyne, *Silicon Nitride Technical Data* (2026), https://panadyne.com/silicon-nitride-technical-data/.
EX1034	U.S. Patent Publication No. 20200212242A1 to Fang et al. ("Fang")
EX1035	Richter, et al (2017). n-Type Si solar cells with passivating electron contact: Identifying sources for efficiency limitations by wafer thickness and resistivity variation. *Solar Energy Materials and Solar Cells*, *173*, 96-105. ("Richter")
EX1036	Chinese Patent No. 111640824_MT to Shen et at., (from Orbit) ("Shen")
EX1037	T. S. Eriksson et al., *Infrared optical properties of evaporated alumina films*, 20 Appl. Opt. 2742 (1981). ("Ericksson Paper")
EX1038	F. Rebib et al., *Determination of Optical Properties of a-SiOxNy Thin Films by Ellipsometric and UV-Visible Spectroscopies*, 100 J. Physics: Conf. Series 082033 (2008). ("Rebib Paper")
EX1039	U.S. Patent No. 11437529 to Li et al. ("Li")
EX1040	Xie et al., *High Efficiency Chemical Mechanical Polishing for Silicon Wafers Using a Developed Slurry*, 38 Surfaces & Interfaces

	102833 (2023) ("Xie Paper")
EX1041	Stipulation on April 08, 2026

Date: April 13, 2026

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CERTIFICATE OF SERVICE

In accordance with 37 C.F.R. §42.6, the undersigned certifies that on April 13, 2026, a complete and entire copy of the **PETITIONERS' UPDATED EXHIBIT LIST AND EXHIBIT 1041** was served upon the following electronically via email on counsel for Patent Owner:

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