

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

AFFORDABLE WIRE MANAGEMENT, LLC,
Petitioner,

v.

CAMBRIA COUNTY ASSOCIATION FOR THE BLIND AND
HANDICAPPED, INC.,
Patent Owner.

Case No. IPR2024-00139
U.S. Patent No. 10,177,551 B1

PETITIONER'S UPDATED EXHIBIT LIST

TABLE OF EXHIBITS

Exhibit	Description
1001	U.S. Patent No. 10,177,551 to Smith et al.
1002	Declaration of Dr. Beik and CV.
1003	U.S. Patent No. 10,003,298 to Grushkowitz et al. (“Grushkowitz”).
1004	U.S. Patent No. 3,001,749 to Petersen (“Petersen”).
1005	CAB Cable Rings and Saddles for Solar PV Arrays Website, Wayback Machine (February 4, 2015) (“CAB Website”).
1006	Cable Management in Solar PV Arrays: A Review of Requirements in the National Electrical Code and how CAB Cable Rings and Saddles Meet These Requirements, September 18, 2014 (“CAB Whitepaper”).
1007	National Fire Protection Association, “The National Electrical Code,” 2008 Edition.
1008	Zipse, “History of Grounding/Earthing Practices In The United States,” IEEE (PCIC-2017-25), 2017.
1009	U.S. Patent No. 231,552 to Finney.
1010	U.S. Patent No. 916,306 to Hall.
1011	U.S. Patent No. 2,201,472 to Browder.
1012	Mulqueen, “A Natural History of the Wooden Utility Pole,” California Public Utilities Commission, Policy and Planning Division, July, 2017.
1013	Water and Power Associates, “Early Power Distribution” available at < https://waterandpower.org/museum/Early_Power_Distribution.html >
1014	U.S. Patent No. 1,464,535 to McGivern.
1015	U.S. Patent No. 1,401,998 to Manz.
1016	U.S. Patent No. 1,448,141 to Manz.
1017	U.S. Patent No. 2,917,259 to Hill.
1018	U.S. Patent No. 3,042,351 to Du Bois.
1019	U.S. Patent No. 3,363,048 to Vaughn.
1020	U.S. Patent No. 1,754,924 to Williams.
1021	U.S. Patent No. 1,766,873 to Birch.

Exhibit	Description
1022	Seo, Hun Chul, et al. “Applicability of Messenger Wire for Purpose of Lightning Protection.” <i>Journal of Electrical Engineering and Technology</i> , vol. 11, no. 1, 2016, pp. 167–174.
1023	Southwire, “Triplex Service Drop, Aluminum Conductors. Polyethylene or Crosslinked Polyethylene Insulation,” 2003.
1024	Seiler, “Hendrix Covered Conductor Manual,” Western Power, Rev 2 – August 8, 2013
1025	U.S. Patent Application Publication No. 2001/0038738 to Akasaka.
1026	Affidavit of Nathaniel E Frank-White – Authentication of EX1005 and EX1006.
1027	MacLean “Pole Line Hardware Catalog” was issued in May of 2010 (“MacLean”).
1028	IEEE Green Book 142, IEEE Recommended Practice for Grounding of Industrial and Commercial Power Systems, 2007.
1029	Jung, et al., “An In-depth Analysis for Optimal Cable Tray Support Span,” Sustainable Marine Structures, Volume 02, Issue 01, January 2020.
1030	“Steel Distribution Poles,” American Galvanizers Association, 1997 accessible at < https://galvanizeit.org/education-and-resources/publications/hdg-steel-distribution-poles-1997 >.
1031	National Electrical Safety Code, “National Electrical Safety Code Committee, Accredited Standards Committee C2 – Interpretation Section 23 Clearances,” July 31, 2001.
1032	National Fire Protection Association, “Volume II 1959 Advance Reports Proposed National Electrical Code,” 1959.
1033	Texas Department of Transportation, Fort Worth District, “Traffic Signal Support Structures Timber Pole Assemblies,” September, 2012.
1034	State of Tennessee Department of Transportation, “Span Wire and Messenger Cable Details,” July 29, 2004.
1035	Jacoby, “PV Array Wire Management, Securing, Supporting and Protecting Conductors within the PV Array,” SolarPro, Issue 6.2, Feb./Mar. 2013.
1036	United States Department of Agriculture, Rural Utilities Service, “Bulletin 1724E-153, RD-GD-2001-39: Electrical Distribution Line Guys and Anchors.” April 25, 2001.

Exhibit	Description
1037	U.S. Patent 10,177,551 File History
1038	Declaration of Andrew H. DeVoogd In Support of Motion for Pro Hac Vice Admission
1039	Declaration of Robert C. Sweeney In Support of Motion for Pro Hac Vice Admission
1040	Declaration of Matthew S. Galica In Support of Motion for Pro Hac Vice Admission
1041	September 13, 2024 Deposition Transcript of Joshua W. Phinney, Ph.D.
1042	Phinney Exhibit – CAB Solar - CAB Torque Tube Hang Cost Effective Under-Panel Cab
1043	September 25, 2024, Deposition Transcript of Allen Garrett Smith
1044	Smith Ex. - Hooks, Hangers & Mine Safety Products, Cambria County Association for the Blind and Handicapped (2010)
1045	Smith Ex. – 2018 NECA Showstopper Awards
1046	October 10, 2024, Deposition Transcript of William Brooks, PE
1047	October 11, 2024, Deposition Transcript of Mitchel Bowman
1048	Putnam Ex. - Capital Dynamics and First Solar power on 280-MWac California Flats Solar Project, Solar Power World Online, available at https://www.solarpowerworldonline.com/2019/05/capital-dynamics-and-first-solar-power-on-california-flats-solar-project/
1049	Putnam Ex. Patents, Cambria County Association for the Blind and Handicapped, available at https://www.cabproducts.com/patents/
1050	Putnam Ex. Area nonprofit helps the blind & disabled -- & nets millions in the process, Daily American, available at https://www.dailyamerican.com/story/news/local/2017/10/06/area-nonprofit-helps-the-blind-disabled-nets-millions-in-the-process/116245386/
1051	Putnam Ex. Company Brochure, Cambria County Association for the Blind and Handicapped, available at https://7b950756.flowpaper.com/CABImageBrochure/#page=1
1052	Declaration of Joshua Weiner
1053	Joshua Weiner Curriculum Vitae

Exhibit	Description
1054	UL 2703 Standard Scope Summary, available at https://www.shopulstandards.com/ProductDetail.aspx?UniqueKey=29007
1055	“Photovoltaic Module Grounding: Issues and Recommendations” White Paper prepared by BEW Engineering (April 2012)
1056	“91076_9.15.2011” 7-Post, 1000 VDC, TTI Tracker drawing for SPG Solar, dated September 15, 2011
1057	“2C_600V_Airguard_UL” multi-conductor cable assembly specification, dated January 18, 2011
1058	Images of SnakeTray mock-up at SPG Solar’s facility in Novato, CA, dated 2011
1059	“Solar Snake Tray Announces New Cable Tray that Attaches to Messenger Wire Rope for Solar Installations,” Snake Tray, available at https://www.snaketray.com/solar-snake-tray-announces-new-cable-tray-that-attaches-to-messenger-wire-rope-for-solar-installations/
1060	“Snake Tray Offers New Double Tier, Dual Purpose Cable Tray for MC Cables and Datacom Cables,” Snake Tray, available at https://www.snaketray.com/snake-tray-offers-new-double-tier-dual-purpose-cable-tray-for-mc-cables-and-datacom-cables/
1061	Declaration of Minh P. Doan
1062	“Utility-Scale Solar, 2023 Edition,” Berkeley Lab, available at https://emp.lbl.gov/sites/default/files/emp-files/utility_scale_solar_2023_edition_slides.pdf
1063	“Solar Market Insight Report 2018 Year In Review,” Solar Energy Industries Association, available at https://seia.org/research-resources/solar-market-insight-report-2018-year-review/
1064	“World’s largest solar farm is up and running in California,” Tech Xplore, available at https://techxplore.com/news/2014-11-world-largest-solar-farm-california.html
1065	“Utility-Scale Solar: Technology Trends, 2007-2023,” Berkeley Lab, available at https://emp.lbl.gov/technology-trends
1066	October 1, 2024 Deposition Transcript of Edward C. Kern, Jr., Ph.D.
1067	October 3, 2024, Deposition Transcript of Jonathan D. Putnam, Ph.D.
1068	October 8, 2024, Deposition Transcript of Joseph William Novak, P.E., MSE, MBA, S.P.

Exhibit	Description
1069	U.S. Patent No. 10,461,518
1070	Petitioner's Oral Argument Demonstratives

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