

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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CURRENT LIGHTING SOLUTIONS, LLC,  
and  
HLI SOLUTIONS, INC.,  
Petitioners,

v.

ALSI HOLDINGS, LLC  
Patent Owner.

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U.S. Patent No. 9,699,854 to Wassel

Case No.: IPR2023-00125

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**ENTRY OF EXHIBIT 1048 AND UPDATED EXHIBIT LIST**

**Updated List of Exhibits**

| <b>Exhibit No.</b> | <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Identifier</b> |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| 1001               | USPN 9,699,854                                                                                                                                                                                                                                                                                                                                                                                                                                                                | '854 Patent       |
| 1002               | The '854 Patent File History                                                                                                                                                                                                                                                                                                                                                                                                                                                  | '854 File History |
| 1003               | Declaration of Dr. Jack Josefowicz                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |
| 1004               | Curriculum Vitae of Dr. Jack Josefowicz                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |
| 1005               | USPN 8,322,881                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |
| 1006               | U.S. Provisional App. No. 61/094,571                                                                                                                                                                                                                                                                                                                                                                                                                                          | '571 Provisional  |
| 1007               | U.S. Provisional App. No. 61/094,558                                                                                                                                                                                                                                                                                                                                                                                                                                          | '558 Provisional  |
| 1008               | U.S. Provisional App. No. 61/015,713                                                                                                                                                                                                                                                                                                                                                                                                                                          | '713 Provisional  |
| 1009               | U.S. Patent App. No. 2005/0111220                                                                                                                                                                                                                                                                                                                                                                                                                                             | Smith             |
| 1010               | U.S. Provisional App. No. 60/960,473                                                                                                                                                                                                                                                                                                                                                                                                                                          | '473 Provisional  |
| 1011               | U.S. Patent No. 223,898                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |
| 1012               | How the Energy Independence and Security Act of 2007 Affects Light Bulbs _ US EPA - <a href="https://www.epa.gov/mercury/how-energy-independence-and-security-act-2007-affects-light-bulbs#:~:text=Basics%20of%20the%20Energy%20Independence,that%20are%20not%20energy%20efficient">https://www.epa.gov/mercury/how-energy-independence-and-security-act-2007-affects-light-bulbs#:~:text=Basics%20of%20the%20Energy%20Independence,that%20are%20not%20energy%20efficient</a> |                   |
| 1013               | Recycling and Disposal of CFLs and Other Bulbs that Contain Mercury _ US EPA - <a href="https://www.epa.gov/cfl/recycling-and-disposal-cfls-and-other-bulbs-contain-mercury">https://www.epa.gov/cfl/recycling-and-disposal-cfls-and-other-bulbs-contain-mercury</a>                                                                                                                                                                                                          |                   |
| 1014               | Disposal of Fluorescent Light Ballasts (FLB) _ US EPA - <a href="https://www.epa.gov/pcbs/disposal-fluorescent-light-ballasts-flb">https://www.epa.gov/pcbs/disposal-fluorescent-light-ballasts-flb</a>                                                                                                                                                                                                                                                                       |                   |
| 1015               | Nakamura, <i>The Roles of Structural Imperfections in InGaN-Based Blue Light-Emitting Diodes and Laser Diodes</i> , Science Magazine, Vol. 281, pp. 956-961 at 956-957 (August 14, 1998)                                                                                                                                                                                                                                                                                      | Nakamura          |
| 1016               | Nakada et. al., <i>Improved Characteristics of InGaN Multiple-Quantum-Well Light-Emitting Diode by GaN/AlGaIn distributed Reflector Grown on Sapphire</i> , Applied Physics Letters, Vol. 76, No. 14, pp. 1804-1806 (April 3, 2000)                                                                                                                                                                                                                                           | Nakada            |

| Exhibit No. | Description                                                                                                                                                                                                                                                                                                                          | Identifier |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 1017        | USPN 5,578,839                                                                                                                                                                                                                                                                                                                       |            |
| 1018        | Nakamura et al., “ <i>Candela-Class High-Brightness InGaN/AlGaIn Double-Heterostructure Blue-Light-Emitting Diodes</i> ,” Appl. Phys. Lett. 64, pp. 1687-1689 (1994)                                                                                                                                                                 |            |
| 1019        | Mueller-Mach et al., <i>Highly efficient all-nitride phosphor-converted white light emitting diode</i> , Physica Status Solidi (A) Applications and Materials, Vol. 202, Issue 9, pp. 1727-1732 at 1728 (June 6, 2005)                                                                                                               |            |
| 1020        | USPN 7,223,998                                                                                                                                                                                                                                                                                                                       |            |
| 1021        | USPN 7,405,093                                                                                                                                                                                                                                                                                                                       |            |
| 1022        | U.S. Patent Publication No. 2008/0089069                                                                                                                                                                                                                                                                                             | Medendorp  |
| 1023        | USPN 5,857,767                                                                                                                                                                                                                                                                                                                       |            |
| 1024        | USPN 7,144,135                                                                                                                                                                                                                                                                                                                       |            |
| 1025        | USPN 2,422,378                                                                                                                                                                                                                                                                                                                       |            |
| 1026        | USPN 3,123,308                                                                                                                                                                                                                                                                                                                       | Franck     |
| 1027        | USPN 4,041,306                                                                                                                                                                                                                                                                                                                       | Compton    |
| 1028        | USPN 7,144,135                                                                                                                                                                                                                                                                                                                       |            |
| 1029        | USPN 2,908,197                                                                                                                                                                                                                                                                                                                       |            |
| 1030        | Michael Gauvin et al., “Multi-CPU architecture speeds ray tracing,”<br><a href="https://www.laserfocusworld.com/software-accessories/software/article/16553028/multicpu-architecture-speeds-ray-tracing">https://www.laserfocusworld.com/software-accessories/software/article/16553028/multicpu-architecture-speeds-ray-tracing</a> |            |
| 1031        | National Lighting Product Information Program, Parking Lot and Area Luminaires, Vol. 9(1) (2004)                                                                                                                                                                                                                                     |            |
| 1032        | Final Claim Construction - ALSI Holdings, LLC v. Current Lighting Solutions, LLC d/b/a GE Current, 6:21-cv-1187                                                                                                                                                                                                                      |            |
| 1033        | IES Standard for Roadway Lighting, RP-8-00 (2005)                                                                                                                                                                                                                                                                                    |            |
| 1034        | IES Standard for Roadway Lighting, RP-8-14 (2014)                                                                                                                                                                                                                                                                                    |            |
| 1035        | ALSI infringement contentions for the ’854 Patent                                                                                                                                                                                                                                                                                    |            |
| 1036        | U.S. Patent Pub. No. 2007/0121343                                                                                                                                                                                                                                                                                                    | Brown      |
| 1037        | USPN 6,257,735                                                                                                                                                                                                                                                                                                                       | Baar       |
| 1038        | USPN 6,641,284                                                                                                                                                                                                                                                                                                                       | Stopa      |

| <b>Exhibit No.</b> | <b>Description</b>                                                                                                    | <b>Identifier</b> |
|--------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------|
| 1039               | Lumen (unit) – McGraw Hill Dictionary of Scientific and Technical Terms                                               |                   |
| 1040               | USPN 7,198,386                                                                                                        |                   |
| 1041               | U.S. Patent App. No. 2007/0002565                                                                                     | Han               |
| 1042               | USPN 7,766,508                                                                                                        |                   |
| 1043               | USPN 7,847,486                                                                                                        |                   |
| 1044               | USPN 7,648,257                                                                                                        | Villard           |
| 1045               | USPN 6,318,886                                                                                                        | Stopa II          |
| 1046               | ALSI v. Current Lighting et al., DN50 – Scheduling Order                                                              | Scheduling Order  |
| 1047               | Notice of <i>Sotera</i> Stipulation, ALSI v. Current Lighting et al., Case No. 6:21-cv-01187-ADA (W.D. Texas) (DN 99) |                   |
| 1048<br>NEW        | 03-14-2023 Transcript of conference call with Board                                                                   |                   |

Petitioners hereby file Exhibit 1048, which is the transcript of a conference call with the Board that took place on March 14, 2023.

Respectfully submitted,

Dated: March 28, 2023

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**Certificate of Service**

The undersigned hereby certifies that on March 28, 2023, a complete and entire copy of **ENTRY OF EXHIBIT 1048 AND UPDATED EXHIBIT LIST**, was served via electronic mail by serving the correspondence email address of record as follows:

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