UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

CIRRUS LOGIC, INC.;
OMNIVISION TECHNOLOGIES, INC.;
AND AMS SENSORS USA INC.,
Petitioner,
v.

GREENTHREAD, LLC,
Patent Owner.

IPR2024-00018
U.S. Patent No. 9,190,502

PATENT OWNER'S REPLY IN SUPPORT OF ITS MOTION TO SEAL FILED DECEMBER 22, 2023

EXHIBIT LIST

Exhibit No.	Description	Submitted Previously?
Ex. 2001	*Greenthread, LLC v. Intel Corp.*, No. 6:22-cv-00105-ADA, Dkt. 1 (Complaint) (W.D. Tex. Jan. 27, 2022)	X
Ex. 2002	Definition of "privity" in Black's Law Dictionary (11th ed. 2019) available from Westlaw at westlaw.com	X
Ex. 2003	*Greenthread, LLC v. Intel Corp.*, 6:22-cv-00105-ADA, Dkt. 38 (First Amended Complaint for Patent Infringement) (W.D. Tex., filed Apr. 29, 2022)	X
Ex. 2004	*Greenthread, LLC v. Intel Corp.*, No. 6:22-cv-00105-ADA, Dkt. 113 (Redacted Memorandum Opinion and Order) (W.D. Tex. Dec. 27, 2022)	X
Ex. 2005	*Greenthread, LLC v. Intel Corp.*, 6:22-cv-00105-ADA, Dkt. 38-8 (Greenthread's Amended Preliminary Infringement Contentions) (W.D. Tex., filed Apr. 29, 2022)	X
Ex. 2006	*Greenthread, LLC v. Intel Corp.*, 6:22-cv-00105-ADA, Dkt. 38-12 (Exs. D-1, D-2, D-3, D-6 to Greenthread's Preliminary Infringement Contentions) (W.D. Tex., filed Apr. 29, 2022)	X
Ex. 2007	*Greenthread, LLC v. Intel Corp.*, 6:22-cv-00105-ADA, Dkt. 49 (Notice of Appearance of Additional Counsel) (W.D. Tex., filed June 9, 2022)	X
Ex. 2008	Petition (Paper 1) in *Sony Group Corp. v. Greenthread, LLC*, IPR2023-00376	X

Exhibit No.	Description	Submitted Previously?
Ex. 2009	*Greenthread, LLC v. Dell Inc.*, No. 6:22-cv-105-ADA, Dkt. 120 (Second Amended Complaint)	X
Ex. 2010	*Greenthread, LLC v. Intel Corp.*, 6:22-cv-00105-ADA, Dkt. 135 (Motion for Admission Pro Hac Vice of L. Popovski on Behalf of Sony) (W.D. Tex., filed January 30, 2023)	X
Ex. 2011	**[SEALED]** Email communication from Patent Owner's counsel to Petitioner's counsel dated October 20, 2023	X
Ex. 2012	Email Attachment – Cirrus Logic Technical Support Article Number 000207340	X
Ex. 2013	Email Attachment - Cirrus Logic Investor Presentation as of April 28, 2015	X
Ex. 2014	Email Attachment - GlobalFoundries 2022 Capital Markets Day, available at https://investors.gf.com/static-files/65f5f1b9-2aea-47a3-8455-10413c6560f4	X
Ex. 2015	Email Attachment - Intel RealSense Product Family D400 Series, dated 2019	X
Ex. 2016	**[SEALED]** Email communication from Petitioner's counsel to Patent Owner's counsel dated October 24, 2023	X
Ex. 2017	Email communication from Patent Owner's counsel to Board, copying Petitioner's counsel dated November 1, 2023	X
Ex. 2018	*Greenthread, LLC v. Cirrus Logic, Inc.*, No. 1:23-cv-00369 (Supplemental Preliminary Infringement Contentions) (W.D. Tex., served Oct. 13, 2023)	X

Exhibit No.	Description	Submitted Previously?
Ex. 2019	*Greenthread, LLC v. Cirrus Logic, Inc.*, No. 1:23-cv-00369, Dkt. 29 (Scheduling Order) (W.D. Tex. Aug. 18, 2023)	X
Ex. 2020	Article entitled "Cirrus Logic Helps Ease PC Industry Transition to New MIPI SoundWire® Interface" available at https://investor.cirrus.com/news-and-events/investor-news/news-details/2023/Cirrus-Logic-Helps-Ease-PC-Industry-Transition-to-New-MIPI-SoundWire-Interface/default.aspx	X
Ex. 2021	*Greenthread, LLC v. Intel Corp.*, 6:22-cv-00105-ADA, Dkt. 120-8, Greenthread's Amended Preliminary Infringement Contentions (W.D. Tex., filed Jan. 23, 2023)	X
Ex. 2022	**[SEALED]** Confidential agreement	X
Ex. 2023	CS42L42, Low Power Audio Codec with SoundWire and Audio Processing, available at https://www.cirrus.com/pubs/proBulletin/cs42l43-cs36l56-bulletin.pdf	X
Ex. 2024	Cirrus Logic Immersive PC Audio Solution, available at https://www.cirrus.com/pubs/proBulletin/cs42l43-cs36l56-bulletin.pdf	X
Ex. 2025	Cirrus Logic – What Drives Our Success, available at https://investor.cirrus.com/company-overview/what-drives-our-success/default.aspx	X
Ex. 2026	Cirrus Logic, Inc. Terms and Conditions of Sale, available at https://www.cirrus.com/legal/productterms/	X
Ex. 2027	*Greenthread, LLC v. OmniVision Technologies Inc.*; 2:23-cv-212, Dkt. 1 (Complaint) (E.D. Tex May 10, 2023)	X

Exhibit No.	Description	Submitted Previously?
Ex. 2028	**[SEALED]** Confidential declaration	X
Ex. 2029	*Greenthread, LLC v. OmniVision Technologies Inc.*, 2:23-00212, Preliminary Infringement Contentions for OmniVision Technologies Inc.	X
Ex. 2030	Deep Dive Teardown of the PlayStation VR2 CFIZVR1 VR Headset, available at https://www.techinsights.com/blog/deep-dive-teardown-playstation-vr2-cfi-zvr1-vr-headset	X
Ex. 2031	Intel RealSense Product Family D400 Series, dated September 2023	X
Ex. 2032	**[SEALED]** Confidential declaration	X
Ex. 2033	GlobalFoundries Annual Report on Form 20-F for the fiscal year ended December 31, 2022, available at https://investors.gf.com/static-files/cc73efd0-09c1-442a-b4dd-0bcb74610e31	X
Ex. 2034	**[SEALED]** Confidential agreement	X
Ex. 2035	TechInsights Report on Sony Xperia 5111	X
Ex. 2036	TechInsights Report Ad	X
Ex. 2037	**[SEALED]** Email communication from Petitioner's counsel to Patent Owner's counsel dated between January 9, 2024 through January 10, 2024	X

Exhibit No.	Description	Submitted Previously?
Ex. 2038	**[SEALED]** Email communication from Petitioner's counsel to Patent Owner's counsel dated between October 20, 2023 through October 31, 2023	X

Patent Owner Greenthread, LLC ("Patent Owner" or "PO") submits this reply in support of its motion to seal ("Motion" or "Mot.," Paper 8), which requested sealing certain documents because they contain confidential licensing-related information. Petitioner states that it was not given sufficient time to provide a position regarding the Motion, but Patent Owner requested Petitioner's response on the same day that the Board granted PO's request to file a motion for additional discovery on December 21, 2023. PO needed to file its motion for additional discovery as expeditiously as possible to maximize the potential of such discovery being included in its POPRs. PO filed its motion for additional discovery (Paper 9) and the motion to seal the following day, on December 22, 2023.

Petitioner filed its Opposition ("Opp.," Paper 10) on January 5, identifying that it does not oppose entry of the Board's Default Protective Order, nor does it oppose sealing Exhibits 2022, 2032, and 2034 in their entireties. Opp. 2. Petitioner opposes sealing PO's Motion for Additional Discovery, and Exhibits 2011, 2016, and 2028 in their entireties, and suggests preparing redacted versions of the those in the alternative. Opp. 2-3.

As Petitioner does not oppose entry of the Default Protective Order and sealing Exhibits 2022, 2032, and 2034 in their entireties, Patent Owner requests the Default Protective Order be entered and Exhibits 2022, 2032, and 2034 be sealed in their entireties. As explained in its Motion, good cause exists to keep those exhibits

under seal. Mot. 3-5.

Petitioner opposes Exhibit 2028 from being sealed in its entirety, but provides no argument as to why and does not separately address Exhibit 2028 in its Opposition. See Opp. 1-3. Unlike Exhibits 2011 and 2016, which include email correspondence between the parties, Exhibit 2028 is a confidential declaration that discusses Exhibit 2022 (which Petitioner does not oppose sealing) and includes highly sensitive, confidential, and non-public information, including certain terms, rights, and scope of Exhibit 2022. Public disclosure of this information would harm Patent Owner and certain other third parties. Essentially, all of the information in Exhibit 2028 is truly sensitive, which warrants sealing it in its entirety. *Edwards Lifesciences Corp. v. Boston Scientific Scimed, Inc.*, IPR2017-00060, Paper 24 at 7 (FN3) (PTAB July 20, 2017).

Patent Owner does not object to filing unsealed but redacted copies of its Motion for Additional Discovery, Exhibit 2011, and Exhibit 2016.

Dated: February 5, 2024

Respectfully submitted,

/Alan Whitehurst/

Alan Whitehurst
Reg. No. 43,263
awhitehurst@mckoolsmith.com
Nicholas T. Matich
Reg. No. L1,373
nmatich@mckoolsmith.com
Arvind Jairam
Reg. No. 62,759
ajairam@mckoolsmith.com
Stuart McCommas
Reg. No. 71,834
smccommas@mckoolsmith.com
MCKOOL SMITH, P.C.
1999 K St. NW, Suite 600
Washington, DC 20006
Telephone: (202) 370-8300
Facsimile: (202) 370-8344

Archis "Neil" Ozarkar
Reg. No. 71,265
nozarkar@mckoolsmith.com
MCKOOL SMITH, P.C.
600 Travis Street, Suite 7000
Houston, TX 77002
Telephone: (713) 485-7300
Facsimile: (713) 485-7344

Counsel for Patent Owner

CERTIFICATION OF SERVICE

The undersigned hereby certifies that a copy of this **PATENT OWNER'S REPLY IN SUPPORT OF ITS MOTION TO SEAL FILED DECEMBER 22, 2023** has been served on Petitioner via email on the following counsel of record for Petitioner:

Scott Weidenfeller (No. 54,531)
sweidenfeller@cov.com
Covington & Burling LLP
One CityCenter,
850 Tenth Street, NW
Washington, DC 20001-4956
Telephone: (202) 662-5923
Facsimile: (202) 778-5923

Anupam Sharma (No. 55,609)
asharma@cov.com
Covington & Burling LLP
3000 El Camino Real,
5 Palo Alto Square,
Palo Alto, CA 94306
Telephone: (650) 632-4720
Facsimile: (650) 632-4800

Raj Paul (No. 64,492)
rpaul@cov.com
Covington & Burling LLP
One CityCenter,
850 Tenth Street, NW
Washington, DC 20001-4956
Telephone: (202) 662-5740
Facsimile: (202) 778-5923

Bert Greene (No. 48,366)
bgreene@duanemorris.com
Andrew Liddell (No. 65,693)

waliddell@duanemorris.com
DUANE MORRIS LLP
Las Cimas IV
900 S. Capital of Texas Hwy., Suite 300
Austin, TX 78746
Telephone: (512) 277-2246
Facsimile: (512)277-2301

Daniel G. Nguyen (No. 42,933)
dnguyen@lockelord.com
Emma A. Bennett (No. 80,631)
emma.bennett@lockelord.com
LOCKE LORD LLP
600 Travis St., Suite 2800
Houston, Texas 77002
Telephone: (713) 226-1200
Facsimile: (214) 223-3717

David H. Bluestone (No. 44,542)
david.bluestone@bfkn.com
Barack Ferrazzano Kirschbaum & Nagelberg LLP
200 West Madison St., Suite 3900
Chicago, Illinois 60606
Telephone: (312) 984-3106
Facsimile: (312) 984-3150

GT-Cirrus-IPR@cov.com
osram-greenthread@lockelord.com

Dated: February 5, 2024 By: */Alan Whitehurst/*
Alan Whitehurst, Reg. No. 43,263