

IPR2021-00985
U.S. Patent No. 7,292,835

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

TCL Industries Holdings Co., Ltd. and Hisense Co., Ltd., and LG Electronics Inc.,
Petitioners,

v.

ParkerVision, Inc.
Patent Owner

U.S. Patent No. 7,292,835

Issue Date: November 6, 2007

Title: WIRELESS AND WIRED CABLE MODEM APPLICATIONS OF
UNIVERSAL FREQUENCY TRANSLATION TECHNOLOGY

Inter Partes Review No. IPR2021-00985¹

PATENT OWNER'S UPDATED EXHIBIT LIST AND EXHIBIT 2039

¹ LG Electronics Inc., who filed a petition in IPR2022-00246, is joined as petitioner in this proceeding.

Pursuant to 37 CFR § 42.6 and the Board's email authorization dated June 27, 2022, Patent Owner (ParkerVision, Inc.) hereby submits an updated exhibit list and the exhibit indicated below:

- Exhibit 2039 - Claim Construction Order, *ParkerVision, Inc. v. LG Elecs., Inc.*, No. 6:21-cv-00520-ADA (W.D. Tex.).

PATENT OWNER'S EXHIBIT LIST

Exhibit No.	Description
2001	Complaint, <i>ParkerVision, Inc. v. Hisense Co., Ltd. et al.</i> , Case No. 6:20-cv-00870 (WDTX)
2002	Complaint, <i>ParkerVision, Inc. v. TCL Industries Holdings Co., Ltd. et al.</i> , Case No. 6:20-cv-00945 (WDTX)
2003	Scheduling Order, <i>ParkerVision, Inc. v. TCL Industries Holdings Co., Ltd. et al.</i> , Case No. 6:20-cv-00945 (WDTX)
2004	Scheduling Order, <i>ParkerVision, Inc. v. Hisense Co., Ltd. et al.</i> , Case No. 6:20-cv-00870 (WDTX)
2005	Published Interview of Judge Albright, <i>IAM</i> (Apr. 7, 2020)
2006	Docket Order, <i>Kerr Machine Co. d/b/a Kerr Pumps v. Vulcan Industrial Holdings, LLC</i> , No. 6:20-cv-00200 (W.D. Tex. Aug. 2, 2020)
2007	Relevant Excerpts of Defendant's Preliminary Invalidity Contentions, filed in <i>ParkerVision, Inc. v. TCL Industries Holdings Co., Ltd. et al.</i> , Case No. 6:20-cv-00945 (WDTX)
2008	Relevant Excerpts of Defendant's Preliminary Invalidity Contentions, filed in <i>ParkerVision, Inc. v. Hisense Co., Ltd. et al.</i> , Case No. 6:20-cv-00870 (WDTX)
2009	Hearing transcript from <i>ParkerVision, Inc. v. Intel Corp.</i> , Case No. 6:20-cv-00108 (W.D. Texas, Sept. 2, 2020)
2010	ZyXEL Corp. [Confidential] Settlement Agreement
2011	Claim Construction Order, <i>ParkerVision, Inc. v. Intel Corp.</i> , No. 6:20-cv-00108-ADA (W.D. Tex.)
2012	Claim Construction Order, <i>ParkerVision, Inc. v. Intel Corp.</i> , No. 6:20-cv-00562-ADA (W.D. Tex.)
2013	Amended Claim Construction Order, <i>ParkerVision, Inc. v. Intel Corp.</i> , No. 6:20-cv-00562-ADA (W.D. Tex.)
2014	Special Master's Recommended Claim Constructions, <i>ParkerVision, Inc. v. Hisense Co., Ltd. et al.</i> , No. 6:20-cv-00870-ADA (W.D. Tex.)
2015	Special Master's Recommended Claim Constructions, <i>ParkerVision, Inc. v. TCL Industries Holdings Co.</i> , No. 6:20-cv-00945-ADA (W.D. Tex.)
2016	"Transistor," <i>The American Heritage College Dictionary</i> (3rd ed. 1997)
2017	U.S. Patent No. 5,969,545

2018	U.S. Patent No. 6,531,931
2019	U.S. Patent No. 5,614,855
2020	Donald Christiansen, <i>Electronics Engineers' Handbook</i> (4 th ed. 1996)
2021	Richard C. Jaeger, <i>Microelectronic Circuit Design</i> (1997)
2022	Rudolf Graf, <i>Modern Dictionary of Electronics</i> (7th ed. 1999)
2023	J. Crols, "A 1.5 GHz Highly Linear CMOS Downconversion Mixer, IEEE J. Solid-State Circuits, Vol. 30, No.7, pp. 736-742, July 1995
2024	A. Rofougaran, J. Chang, M. Rofougaran, and A. Abidi, "A 1 GHz CMOS RF Front-End IC for a Direct-Conversion Wireless Receiver," IEEE J. Solid-State Circuits, Vol. 31, No. 7, pp. 880-889, July 1996
2025	B. Razavi, "Challenges in Portable RF Transceiver Design," IEEE Circuits and Devices, Vol. 12, No. 5, pp. 12-25, Sept. 1996
2026	G. Wegmann, E. Vittoz, F. Rahali, "Charge Injection in Analog MOS Switches," IEEE J. Solid-State Circuits, Vol. sc-22, No. 6, pp. 1091-1097, December 1987
2027	U.S. Patent No. 6,061,551
2028	B. Razavi, "CMOS RF receiver design for wireless LAN applications," IEEE Radio and Wireless Conference, pp. 275-280, Aug. 1999
2029	Qualcomm Email dated Aug. 11, 1998
2030	Qualcomm Email dated Feb. 2, 1999
2031	Qualcomm Email dated Oct. 7, 1998
2032	Qualcomm Email dated Feb. 4, 1999
2033	J. Candy, G. Temes, "Oversampling Delta-Sigma Data Converters: Theory, Design, and Simulation," (1992)
2034	Thomas L. Floyd, <i>Principles of Electric Circuits</i> (5 th ed. 1997)
2035	David M. Pozar, <i>Microwave Engineering</i> (2 nd ed. 1998)
2036	Graphic Symbols for Electrical and Electronics Diagrams, IEEE Standards Coordinating Committee 11 (1975)
2037	Final Written Decision, <i>Intel Corp. v. ParkerVision, Inc.</i> , IPR2020-01265 (Jan. 21, 2022)
2038	Declaration of Dr. Michael Steer

2039	Claim Construction Order, ParkerVision, Inc. v. LG Elecs., Inc., No. 6:21-cv-00520-ADA (W.D. Tex.)
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Dated: June 27, 2022

Respectfully submitted,

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