

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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SILICON LABORATORIES, INC.  
Petitioner

v.

CRESTA TECHNOLOGY CORPORATION  
Patent Owner

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CASE IPR2015-00626  
Patent 7,265,792

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**UPDATED EXHIBIT LIST**

***Mail Stop "PATENT BOARD"***  
Patent Trial and Appeal Board  
U.S. Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-14

**PETITIONER’S EXHIBIT LIST**

<b>Exhibit. No.</b>	<b>Description</b>
1001	U.S. Patent No. 7,265,792, titled “Television Receiver for Digital and Analog Signals,” to Favrat et al. (“the ’792 patent”).
1002	Return of Service of for the Complaint in <i>Cresta Technology Corporation v. Silicon Laboratories, Inc. et al.</i> , Case No. 1:14-cv-00078-RGA before the United States District Court for the District of Delaware (January 28, 2014) (“Return of Service”).
1003	Complaint in ITC Investigation No. 337-TA-910 (January 28, 2014) (“ITC Complaint”).
1004	European Patent Application No. EP 0696854, titled “Broadcast Receiver Adapted for Analog and Digital Signals,” assigned to Thomson Multimedia S.A. (“Thomson”).
1005	Clay Olmstead & Mike Petrowski of Harris Semiconductor, <i>A Digital Tuner for Wideband Receivers</i> , DSP Applications Magazine, Sep. 1992 (“Harris”).
1006	Al Lovrich & Ray Simar, Jr., “Implementation of FIR/IIR Filters with the TMS3201/TMS32020,” Application Report: SPRA003A (Texas Instruments 1989) (“TI App Note”).
1007	U.S. Patent Application No. 2004/0061804, titled “Broadband Receiver Having a Multistandard Channel Filter,” to Favrat et al. (“the ’585 application”).
1008	U.S. Patent 5,381,357, titled “Complex Adaptive FIR Filter,” to Wedgwood et al. (“Grumman”).
1009	Declaration of Douglas Holberg (“Holberg Dec.”).
1010	Excerpts of the prosecution file history of the ’792 patent.

1011	U.S. Patent 6,377,316, titled “Tuner with Switched Analog and Digital Modulators,” to Mycynek et al. (“Zenith”).
1012	U.S. Patent 5,999,567, titled “Method for Recovering a Source Signal from a Composite Signal and Apparatus Therefor,” to Torkkola. (“Torkkola”).
1013	U.S. Patent 6,263,222, titled “Signal Processing Apparatus,” to Diab et al. (“Diab”).
1014	Order No. 50 in ITC Investigation No. 337-TA-910, “Initial Determination Granting Cresta Technology Corporation’s Corrected Motion to Partially Terminate Investigation as to U.S. Patent No. 7,251,466 and Certain Claims of U.S. Patent Nos. 7,075,585 and 7,265,792” (November 12, 2014).
1015	U.S. Patent 6,725,463, titled “Dual Mode Tuner for Co-Existing Digital and Analog Television Signals,” to Birleson. (“Birleson”).
1016	Advanced Television Systems Committee, “ATSC Digital Television Standard” (September 16, 1995).
1017	U.S. Patent 5,796,442, titled “Multi-Format Television Receiver,” to Gove et al. (“Gove”).
1018	U.S. Patent Application No. 2002/0057366, titled “Decoder Device and Receiver Using the Same,” to Oku et al. (“Oku”).
1019	U.S. Patent No. 4,872,054, titled “Video Interface for Capturing an Incoming Video Signal and Reformatting the Video Signal,” to Gray et al. (“Gray”).
1020	U.S. Patent No. 6,600,747, titled “Video Monitor Multiplexing Circuit,” to Sauber (“Sauber”).
1021	U.S. Patent No. 6,804,497, titled “Partitioned Radio-Frequency Apparatus and Associated Methods,” to Kerth et al. (“Kerth”).
1022	European Patent Application No. EP 94300649.4, titled “Digital Filtering, Data Rate Conversion and Modem Design,” filed January

	28, 1994, to Terrell (“Terrell”).
1023	U.S. Patent No. 6,124,898, titled “Digital Television Receiver with Equalization Performed on Digital Intermediate-Frequency Signals,” to Patel et al. (“Patel”).
1024	U.S. Patent No. 6,411,136, titled “Differential Line Driver,” to Nianxiong et al. (“Ericsson”).
1025	U.S. Patent No. 7,394,857, titled “Flexible Versatile Low-Cost Wireline Transmit Driver,” to Maulik et al. (“Maulik”).
1026	U.S. Patent No. 4,595,910, titled “Digital-to-Analog Converter Useful in a Television Receiver,” to Wine (“Wine”).
1027	U.S. Patent No. 4,292,597, titled “Circuit for Converting Single-Ended Input Signals to a Pair of Differential Output Signals,” to Niimura et al. (“Niimura”).
1028	The Authoritative Dictionary of IEEE Standards Terms, pp. 87, 912, IEEE Press (2000).
1029	U.S. Patent No. 6,332,028, titled “Dual-Processing Interference Cancelling System and Method,” to Marash (“Marash”).
1030	U.S. Patent No. 6,142,942, titled “Ultrasound Imaging System and Method Employing an Adaptive Filter,” to Clark (“Clark”).
1031	U.S. Patent No. 6,400,598, titled “Programmable Circuit Devices with Low Voltage Differential Signaling Capabilities,” to Nguyen et al. (“Nguyen”).
1032	Microsoft Computer Dictionary, pp. 269, 270, Microsoft Press (5th ed. 2002).
1033	James Karki, “Fully-Differential Amplifiers,” Application Report: SLOA054D (Texas Instruments 2002) (“Karki”).
1034	Stephen Kempainen, “Low-Voltage Differential Signaling (LVDS),” Application Note 1382-6 (Agilent Technologies May 20,

	2002) (“Kempainen”).
1035	“High-Bandwidth LVDS Support in APEX Devices,” M-SSAPEXLVDS-02 (Altera Corporation 2000) (“Altera”).
1036	“LVDS Owner’s Manual: Low-Voltage Differential Signaling,” 3d Ed., 550062-003 (National Semiconductor January 2004) (“National Semiconductor”).
1037	“Product Specification for TDA10021HT DVB-C channel receiver,” (Philips Semiconductors, October 1, 2001) (“TDA10021HT”).
1038	“TDA10046HT Single-Chip DVB-T channel decoder,” Document order No. 9397 750 0922 (Philips Semiconductors, May 2002) (“TDA10046HT”).
1039	“Pre-Trial Brief of the Office of Unfair Import Investigations” in ITC Investigation No. 337-TA-910 (Redacted) (November 10, 2014).
1040	Excerpts of “Hearing, Vol. 5” in ITC Investigation No. 337-TA-910 (December 5, 2014) (cross-examination of Dr. Caloyannides).
1053	U.S. Patent No. 6,369,857 titled "Receiver for Analgo and Digital Television Signals," to Balaban <i>et al.</i>
1054	Excerpts of "IEEE Standard Dictionary of Electrical and Electronics Terms," IEE Std. 100-1996
1055	Satellite Receiver User's Guide, General Electric GRD33G2A, published 1996 by Thomson Consumer Electronics, Inc. (
1059	K.G. Jackson & G.B. Townsend (eds.), "TV & Video Engineer's Reference Boob," Butterworth-Heinemann (1991)
1060	Deposition Transcript of Ion E. Opris, Ph.D. (Jan. 13, 2016)
1061	Declaration of Douglas Holberg in Support of Petitioner's Reply to Patent Owner's Responses

1062	Final Written Decision, IPR2014-00809, Paper No. 56 (PTAB Oct. 21, 2015)
1063	Supplemental Declaration of Douglas Holberg, Ph.D.
1064	Pleadings from Bankruptcy Proceeding 16-50808

**PATENT OWNER'S EXHIBIT LIST**

<b>Exhibit. No.</b>	<b>Description</b>
2001	Decision – Institution of <i>Inter Partes</i> Review in IPR2014-00809
2002	Petition for Inter Partes Review of US Patent No. 7,265,792 (IPR2014-00809)
2003	Declaration of Ion E. Opris Ph.D. Regarding the Validity of US Patent No. 7,265,792 from IPR2014-00728
2004	Ex 2051 Second Declaration of Ion E. Opris Ph.D. Regarding Ex 2050 (IPR2014-00809)
2005	Paul Rako, Silicon TV Tuners: The Game is On, September 23, 2010
2006	Silicon Labs, Developing Economical, Mainstream Television Designs with Next-Generation Silicon TV Tuner ICs
2007	Intentionally omitted
2008	Oral Deposition of Douglas R. Holberg, Ph.D., December 17, 2014
2009	Intentionally omitted
2010	HSP43220 Data Sheet, September 2000, Decimating Digital Filter
2011	HSP43220, December 1996, Decimating Digital Filter
2012	Intentionally omitted
2013	Intentionally omitted
2014	Intentionally omitted
2015	Intentionally omitted

2016	Intentionally omitted
2017	Intentionally omitted
2018	Intentionally omitted
2019	Intentionally omitted
2020	Declaration of Douglas Holberg in Support of Petition for Inter Partes Review of U.S. Patent No. 7,075,585, used at the deposition of Douglas Holberg
2021	Declaration of Douglas Holberg in Support of Petition for Inter Partes Review of U.S. Patent No. 7,265,792, used at the deposition of Douglas Holberg
2022	United States Patent No. 7,075,585 to Favrat et al., used at the deposition of Douglas Holberg
2023	United States Patent No. 7,265,792 to Favrat et al., used at the deposition of Douglas Holberg
2024	United States Patent No. 6,377,316 to Mycynek et al., used at the deposition of Douglas Holberg
2025	A Digital Tuner for Wideband Receivers, used at the deposition of Douglas Holberg
2026	United States Patent No. 6,725,463 to Birleson, used at the deposition of Douglas Holberg
2027	United States Patent No. 5,381,357 to Wedgwood et al., used at the deposition of Douglas Holberg
2028	United States Patent Application Publication No. 2002/0057366 to Oku et al., used at the deposition of Douglas Holberg
2029	United States Patent No. 6,411,136 to Nianxiong et al., used at the deposition of Douglas Holberg



2030	United States Patent No. 6,400,598 Nguyen et al., used at the deposition of Douglas Holberg
2031	Silicon Laboratories, Inc., v. Cresta Technology Corporation, No. 14-CV-03227-PSG, Rebuttal Expert Report of Douglas Holberg, Ph.D. Regarding Validity, used at the deposition of Douglas Holberg
2032	Declaration of Ion E. Opris Ph.D. Regarding the Validity of US Patent No. 7,265,792
2033	Transcript of Oral Deposition of Douglas Holberg, Ph.D., November 4, 2015
2034	Excerpts from The Cassell Dictionary and Thesaurus, 1999
2035	Transcript of Oral Deposition of Douglas R. Holberg, Ph.D., December 18, 2014
2036	Electronic Design, Interview: Silicon Labs CEO Tyson Tuttle Discusses the Mixed-Signal IC Business
2037	ECN 2008 Readers Choice Tech Awards, Dec. 15, 2008
2038	Transcript of Oral Deposition of Douglas R. Holberg, Ph.D., March 4, 2016
2039	Assignment of Patent Rights

**CERTIFICATE OF SERVICE**  
**BY ELECTRONIC MAIL**

Pursuant to 37 C.F.R. § 42.6, the undersigned certifies that on May 27, 2016, a copy of the foregoing was served by electronic mail, as agreed to by the parties, upon the following:

<i>Lead Counsel for Petitioner</i> <b>SILICON LABORATORIES, INC.</b>	<i>Back-up Counsel for Petitioner</i> <b>SILICON LABORATORIES, INC.</b>
<p style="text-align: center;">Peter Ayers <u>peter@leehayes.com</u></p> <p style="text-align: center;"><b>LEE &amp; HAYES, PLLC</b> 11501 Alterra Parkway Suite 450 Austin, Texas 78758</p>	<p style="text-align: center;">John Shumaker <u>jshumaker@leehayes.com</u></p> <p style="text-align: center;">Brian Mangum <u>brianm@leehayes.com</u></p> <p style="text-align: center;"><b>LEE &amp; HAYES, PLLC</b> 11501 Alterra Parkway Suite 450 Austin, Texas 78758</p>

/s/ Susan M. Langworthy  
Susan M. Langworthy