

UNITED STATES INTERNATIONAL TRADE COMMISSION
WASHINGTON, D.C.

In the Matter of

**CERTAIN SILICON TUNERS AND
PRODUCTS CONTAINING SAME,
INCLUDING TELEVISION TUNERS**

Investigation No. 337-TA-_____

**COMPLAINT OF SILICON LABORATORIES INC. UNDER
SECTION 337 OF THE TARIFF ACT OF 1930, AS AMENDED**

COMPLAINANT

Silicon Laboratories Inc.
400 W. Cesar Chavez St.
Austin, Texas 78701

PROPOSED RESPONDENTS

Cresta Technology Corporation
3900 Freedom Circle, Suite 201
Santa Clara, California 95054

Hauppauge Digital, Inc.
91 Cabot Court
Hauppauge, NY 11788

Hauppauge Computer Works, Inc.
91 Cabot Court
Hauppauge, NY 11788

PCTV Systems S.a.r.l., Luxembourg
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TABLE OF SUPPORTING MATERIALS

EXHIBITS

Exhibit No.	Description
1	Copy of U.S. Patent No. 6,137,372
2	Copy of U.S. Patent No. 6,233,441
3	Copy of Assignment Records for U.S. Patent No. 6,137,372
4	Copy of Assignment Records for U.S. Patent No. 6,233,441
5C	List of Licensees for the Asserted Patents [CONFIDENTIAL]
6	Infringement Claim Chart for U.S. Patent No. 6,137,372
7	Infringement Claim Chart for U.S. Patent No. 6,233,441
8	Documents detailing purchase of Hauppauge! WinTV-HVR Hybrid TV Stick 950Q, model 1191
9	Photograph of the Hauppauge! WinTV-HVR Hybrid TV Stick 950Q, model 1191
10	Photograph of the CrestaTech Xceive XC 5000 inside the Hauppauge! WinTV-HVR Hybrid TV Stick 950Q, model 1191
11	Documents detailing purchase of Hauppauge! WinTV-HVR-850, model 1230
12	Photograph of the Hauppauge! WinTV-HVR-850, model 1230 packaging
13	Photograph of the CrestaTech Xceive XC 5000 inside the Hauppauge! WinTV-HVR-850, model 1230
14	Documents detailing purchase of Hauppauge! PCTV HD PCI Card 800i
15	Photograph of the Hauppauge! PCTV HD PCI Card 800i packaging
16	Photograph of the CrestaTech Xceive XC 5000 inside the Hauppauge! PCTV HD PCI Card 800i
17	Documents detailing purchase of CrestaTech Xceive XC 5000 and X7 silicon tuners
18	FedEx shipping receipt for CrestaTech Xceive XC 5000 and X7 silicon tuners
19C	Domestic Industry Claim Chart for U.S. Patent No. 6,137,372 [CONFIDENTIAL]
20C	Domestic Industry Claim Chart for U.S. Patent No. 6,233,441 [CONFIDENTIAL]
21C	Declaration of James Stansberry [CONFIDENTIAL]

APPENDICES

Appendix Item	Description
A	Copy of Prosecution History for U.S. Patent No. 6,137,372
B	Copy of Prosecution History for U.S. Patent No. 6,233,441
C	Cited References for U.S. Patent Nos. 6,137,372 and 6,233,441

TABLE OF CONTENTS

	Page
I. INTRODUCTION	1
II. COMPLAINANT	4
III. THE PROPOSED RESPONDENTS AND THE PRODUCTS AT ISSUE	4
A. Proposed Respondents Hauppauge Digital, Inc., Hauppauge Computer Works, Inc., PCTV Systems S.a.r.l., Luxembourg and PCTV Systems S.a.r.l.....	4
B. Proposed Respondent Cresta Technology Corporation	6
IV. THE TECHNOLOGY AND PRODUCTS AT ISSUE	7
V. THE ASSERTED PATENTS AND NON-TECHNICAL DESCRIPTIONS OF THE INVENTIONS	8
A. Overview and Ownership of Asserted Patents.....	8
B. Non-Technical Description of the '372 Patent	8
C. Non-Technical Description of the '441 Patent	9
D. Foreign Counterparts	10
E. Licenses.....	10
VI. UNLAWFUL AND UNFAIR ACTS OF RESPONDENTS-PATENT INFRINGEMENT.....	10
A. The '372 Patent.....	11
B. The '441 Patent.....	12
VII. SPECIFIC INSTANCES OF UNFAIR IMPORTATION AND SALE	13
VIII. HARMONIZED TARIFF SCHEDULE ITEM NUMBERS	15
IX. RELATED LITIGATION	16
X. THE DOMESTIC INDUSTRY	16
A. Silicon Labs' Practice of the Asserted Patents	16
B. Silicon Labs' Investments In The Domestic Industry.....	17
XI. RELIEF REQUESTED.....	19

I. INTRODUCTION

1. Complainant Silicon Laboratories Inc., ("Silicon Labs") designs and develops high-performance, analog-intensive, mixed-signal integrated circuits serving markets and applications including the communications, consumer electronics, automotive, computing, and industrial industries. Its products are first-of-a-kind solutions, offering breakthroughs and innovations in integration, board space reduction, and cost savings.

2. Silicon Labs is the market-share leader in silicon television tuners, maintaining a significant technical and market lead over the competition as the leading provider of high-performance hybrid tuners in standard CMOS process technology. Silicon Labs' television tuners were the first to fully displace traditional tuner modules in iDTVs and have been adopted by virtually all of the name-brand television makers. Silicon Labs has shipped over 200 million silicon television tuner units and over 3 billion mixed-signal integrated circuits to date.

3. Silicon Labs started in 1996 as a small company in Austin, Texas with a mission to design innovative mixed-signal integrated circuits. As a result of that drive to innovate and the successful execution of its mission, Silicon Labs has become a global leader in the mixed-signal integrated circuit industry and has grown considerably since its humble beginnings, now employing over 1,060 people, of which a substantial number live and work in the Austin, Texas community.

4. This success reflects Silicon Labs' deep commitment to research and development. Throughout its history, Silicon Labs has invested significant resources to develop mixed-signal integrated circuit solutions that many doubted could be achieved.

5. Silicon Labs has arduously sought to protect its innovative solutions by, among other things, filing and procuring patent protection. Silicon Labs' patent portfolio, which includes the Asserted Patents, consists of approximately 1,300 issued patents and pending applications. Silicon Labs' patent portfolio is extremely valuable and reflects years of Silicon Labs' research, testing, development, and relentless commitment to developing novel solutions in the mixed-signal integrated circuit industry. Substantially all of this research and development has been conducted by Silicon Labs employees located in the company's headquarters in Austin, Texas.

6. Cresta Technology Corporation, Hauppauge Digital, Inc., Hauppauge Computer Works, Inc., PCTV Systems S.a.r.l., Luxembourg, and PCTV Systems S.a.r.l. (collectively "Respondents") manufacture, import, sell for importation, sell after importation, and service and repair silicon tuners and products containing same, including television tuners (collectively, the "Accused Products"). The Accused Products manufactured, imported and sold by Respondents incorporate, without license, technologies developed by Silicon Labs and protected by patents issued to and owned by Silicon Labs.

7. Accordingly, Silicon Labs files this complaint under Section 337 of the Tariff Act of 1930, as amended, 19 U.S.C. § 1337, based on the unlawful importation into the United States, the sale for importation into the United States and the sale within the United States after importation into the United States by Respondents of certain silicon tuners and products containing same, including television tuners that infringe certain claims of U.S. Patent Nos. 6,137,372 (the '372 patent) and 6,233,441 (the '441 patent) (collectively "the Asserted Patents").

8. The Asserted Patents include groundbreaking technologies developed by Silicon Labs in conjunction with the development of its innovative silicon tuner products.

The presently asserted claims of the Asserted Patents are as follows:

U.S. Patent Number	Asserted Claims
6,137,372	1-12, 14-29
6,233,441	1-5, 7-11, 17-23, 25-28, 30-33

9. Silicon Labs owns all right, title and interest in and to each of the Asserted Patents. Copies of the Asserted Patents are attached as Exhibits 1 and 2.¹ Copies of the assignment records of the Asserted Patents are attached as Exhibits 3 and 4.²

10. A domestic industry as required by 19 U.S.C. §§1337(a)(2) and (3) exists in the United States relating to the Silicon Labs products protected by the Asserted Patents.

11. Silicon Labs seeks as relief a permanent exclusion order prohibiting infringing silicon tuners and products containing same, including television tuners, manufactured or sold by or on behalf of Respondents, from entry into the United States. Silicon Labs further seeks a permanent cease and desist order prohibiting Respondents

¹ Certified copies of the Asserted Patents have been ordered, but not yet received. Certified copies will be submitted once received.

² Certified copies of the assignment records of the Asserted Patents have been ordered, but not yet received. Certified copies of the assignment records will be submitted once received.

from marketing, distributing, selling, offering for sale, warehousing inventory for distribution or otherwise transferring or bringing into the United States infringing silicon tuners and products containing same, including television tuners.

II. COMPLAINANT

12. Silicon Labs is a Delaware corporation having its principal place of business at 400 W. Cesar Chavez Street, Austin, Texas 78701.

13. Silicon Labs designs, develops, markets and sells silicon television tuners, as well as a variety of other products. Silicon Labs sells its products worldwide through its direct sales force and a network of independent sales representatives and distributors.

14. Silicon Labs uses the technologies covered by the Asserted Patents in the United States as described in Section X below. In connection with the exploitation of these technologies, Silicon Labs has made and continues to make significant investment in the United States in facilities, equipment, labor and capital also as described in Section X below.

15. Silicon Labs researched and developed the technology that is protected by the Asserted Patents. Silicon Labs has made and continues to make significant investment in the design and development of products protected by the Asserted Patents, as described in Section X below.

III. THE PROPOSED RESPONDENTS AND THE PRODUCTS AT ISSUE

A. Proposed Respondents Hauppauge Digital, Inc., Hauppauge Computer Works, Inc., PCTV Systems S.a.r.l., Luxembourg and PCTV Systems S.a.r.l.

16. On information and belief Hauppauge Digital, Inc. is a Delaware corporation with its corporate headquarters at 91 Cabot Court, Hauppauge, New York

11788. On information and belief, Hauppauge Digital, Inc. is the worldwide parent corporation for other Hauppauge entities, and is responsible either directly or indirectly through subsidiaries for Hauppauge's infringing activities.

17. On information and belief Hauppauge Computer Works, Inc. is a New York corporation with its principle place of business at 91 Cabot Court, Hauppauge, New York 11788. On information and belief, Hauppauge Computer Works, Inc. is a wholly owned subsidiary of Hauppauge Digital, Inc. and is the United States operating company for Hauppauge Digital, Inc.

18. On information and belief PCTV Systems S.a.r.l., Luxembourg is incorporated in Luxembourg. On information and belief, PCTV Systems S.a.r.l., Luxembourg is a wholly owned subsidiary of Hauppauge Digital, Inc.

19. On information and belief, PCTV Systems S.a.r.l. is located in Germany and is a branch of PCTV Systems S.a.r.l., Luxembourg. On information and belief, PCTV Systems S.a.r.l. is responsible for PCTV research and development.

20. Proposed Respondents Hauppauge Digital, Inc., Hauppauge Computer Works, Inc., PCTV Systems S.a.r.l., Luxembourg and PCTV Systems S.a.r.l. are herein collectively referred to as "Hauppauge."

21. On information and belief, Hauppauge is engaged in the design, manufacture, importation into the United States and sale after importation products containing the Accused silicon tuners, including television tuners.

1. Hauppauge Accused Products

22. Hauppauge Accused Products include products that contain the Accused silicon tuners, including television tuners.

23. Exemplary Hauppauge Accused Products are the Hauppauge! WinTV-HVR Hybrid TV Stick 950Q, model 1191, WinTV-HVR-850, model 1230 and the Hauppauge! PCTV HD PCI Card 800i.³

B. Proposed Respondent Cresta Technology Corporation

24. On information and belief, Cresta Technology Corporation (“CrestaTech”) is a Delaware corporation having its principal place of business at 3900 Freedom Circle, Suite 201, Santa Clara, California 95054.

25. On information and belief, CrestaTech is engaged in the design, manufacture, importation into the United States and sale after importation of the Accused silicon tuners.

1. CrestaTech Accused Products

26. On information and belief, CrestaTech Accused Products include CrestaTech silicon tuners, including those included in television tuner products such as

³ The specific products listed in Section III.A.1 are exemplary only and are not intended to exclusively define or otherwise limit the category of Accused Products. Silicon Labs may, if necessary, amend or modify the above descriptions, or add additional exemplary products, as discovery progresses.

the Hauppauge! WinTV-HVR Hybrid TV Stick 950Q, model 1191, the Hauppauge! WinTV-HVR-850, model 1230 and the Hauppauge! PCTV HD PCI Card 800i.

27. Exemplary CrestaTech Accused Products include at least, the CrestaTech Xceive XC 5000 silicon tuner and the CrestaTech X7 silicon tuner.⁴

IV. THE TECHNOLOGY AND PRODUCTS AT ISSUE

28. The technologies at issue relate generally to silicon tuners imported into and sold within the United States by or on behalf of Respondents. The technologies at issue in the '372 and '441 patents relate generally to the synthesis of high-frequency signals with improved phase noise and other impurity requirements while overcoming the integration problem associated with earlier implementations. More specifically, the '372 and '441 patents relate to the provision coarse and fine tuning control for synthesizing high-frequency signals using a discretely variable capacitance circuit and a continuously variable capacitance circuit.

⁴ The specific products listed in Section III.B.1 are exemplary only and are not intended to exclusively define or otherwise limit the category of Accused Products. Silicon Labs may, if necessary, amend or modify the above descriptions, or add additional exemplary products, as discovery progresses.

V. THE ASSERTED PATENTS AND NON-TECHNICAL DESCRIPTIONS OF THE INVENTIONS

A. Overview and Ownership of Asserted Patents

29. As set forth below, Silicon Labs owns by assignment the entire right, title and interest in and to each of the Asserted Patents. *See* Exhibits 3 and 4.

30. Pursuant to Commission Rule 210.12(c), copies of the prosecution histories of each of the Asserted Patents have been submitted with this Complaint as Appendices A and B.⁵ Pursuant to Commission Rule 210.12(c), the cited references for each of the Asserted Patents also have been submitted with this Complaint as Appendix C.

B. Non-Technical Description of the '372 Patent⁶

31. The '372 patent, entitled "Method and Apparatus For Providing Coarse and Fine Tuning Control For Synthesizing High-Frequency Signals For Wireless Communications," issued on October 24, 2000 to inventor David R. Welland. The '372 patent issued from United States Patent Application No. 09/087,290 filed on May 29,

⁵ Certified copies of the prosecution histories of the Asserted Patents have been ordered, but not yet received. Certified copies will be submitted once received.

⁶ This description and any other non-technical descriptions within this Complaint are for illustrative purposes only. Nothing in any non-technical description contained within this Complaint is intended to, either implicitly or explicitly, express any position regarding the proper construction of any claim of the Asserted Patents.

1998. The '372 patent expires on May 29, 2018. Silicon Labs owns by assignment the entire right, title and interest in and to the '372 patent.

32. The '372 patent has twenty-nine claims: two independent claims and twenty-seven dependent claims.

33. The '372 patent relates generally to the synthesis of high-frequency signals with improved phase noise and other impurity requirements and overcome the integration problem associated with earlier implementations. Broadly speaking, the '372 patent relates to the generation of high-frequency mixing signals to tune to and receive input signals using discretely and continuously variable capacitance circuits for coarse and fine tuning of the mixing signal frequencies.

C. Non-Technical Description of the '441 Patent

34. The '441 patent, entitled "Method And Apparatus For Generating a Discretely Variable Capacitance for Synthesizing High-Frequency Signals for Wireless Communications," issued to inventor David R. Welland on May 15, 2001. The '441 patent issued from Application No. 09/086,917 filed on May 29, 1998. The '441 patent expires on May 29, 2018. Silicon Labs owns by assignment the entire right, title and interest in and to the '441 patent.

35. The '441 patent has thirty-three claims: thirteen independent claims and twenty dependent claims.

36. The '441 patent relates generally to the synthesis of high-frequency signals with improved phase noise and other impurity requirements and overcome the integration problem associated with earlier implementations. Broadly speaking, the '441

patent relates to the design of the tunable capacitance circuitry within an integrated circuit for coarse and fine tuning control for synthesizing high-frequency signals.

D. Foreign Counterparts

37. Silicon Labs is not aware of any other counterparts or foreign counterpart applications corresponding to the Asserted Patents that have been issued, abandoned, denied or which remain pending.

E. Licenses

38. Confidential Exhibit 5C includes a list of licensed entities for the Asserted Patents. On information and belief there are no other current licenses involving the Asserted Patents.

VI. UNLAWFUL AND UNFAIR ACTS OF RESPONDENTS-PATENT INFRINGEMENT

39. On information and belief, the Respondents manufacture both abroad and in the United States, sell for importation into the United States, import into the United States, and/or sell within the United States after importation, silicon tuners, and products containing the same, including television tuners that infringe one or more of the Asserted Patents.

40. Respondents directly infringe and/or will infringe the Asserted Patents by making, using, selling, offering for sale, and importing the articles claimed by, or practicing the claimed methods of, the Asserted Patents. Moreover, Respondents are aware of the Asserted Patents, at least because Respondents were provided with a copy of this Complaint via registered mail as of the date of its filing.

41. On information and belief, Respondents indirectly infringe the Asserted Patents by contributing to and/or inducing the infringement of these patents by end users of their products because Respondents know that the sale of the accused silicon tuners, and products containing the same, including television tuners, together with user manuals, service manuals, guides, and other materials, constitute infringing use of the silicon tuners, and products containing the same, including television tuners.

A. The '372 Patent

42. On information and belief, the Accused Products infringe at least claims 1-12, 14-29 of the '372 patent. Additionally, on information and belief, users making routine use of the Accused Products infringe at least claims 1-12, 14-29 of the '372 patent. On information and belief, as set forth in paragraph 40, above, Respondents are aware of the '372 patent. Further, on information and belief, Respondents knowingly induce users of the Accused Products to infringe at least claims 1-12, 14-29 of the '372 patent. On information and belief, Respondents contribute to infringement of at least claims 1-12, 14-29 of the '372 patent because Respondents know that the Accused Products are made for use in an infringement of these claims and are not staple articles of commerce suitable for substantial noninfringing use. An exemplary claim chart comparing the asserted independent claims of the '372 patent to an exemplary one of the Accused Products (*i.e.*, the Xceive XC 5000 silicon tuner) is attached as Exhibit 6.

43. At present, Silicon Labs has identified CrestaTech and the Hauppauge Respondents as respondents that have violated Section 337 with respect to the '372 Patent. However, because discovery may reveal that additional downstream respondents also have violated Section 337 with respect to the '372 patent, Silicon Labs reserves all

rights to supplement its allegations to identify additional respondents that have violated Section 337 with respect to the '372 Patent.

B. The '441 Patent

44. On information and belief, the Accused Products infringe claims 1-5, 7-11, 17-23, 25-28, 30-33 of the '441 patent. Additionally, on information and belief, users making routine use of the Accused Products infringe claims 1-5, 7-11, 17-23, 25-28, 30-33 of the '441 patent. On information and belief, as set forth in paragraph 40, above, Respondents are aware of the '441 patent. Further, on information and belief, Respondents knowingly induce users of the Accused Products to infringe claims 1-5, 7-11, 17-23, 25-28, 30-33 of the '441 patent. On information and belief, Respondents contribute to infringement of claims 1-5, 7-11, 17-23, 25-28, 30-33 of the '441 patent because Respondents know that the Accused Products are made for use in an infringement of these claims and are not staple articles of commerce suitable for substantial noninfringing use. An exemplary claim chart comparing the asserted independent claims of the '441 patent to an exemplary one of the Accused Products (*i.e.*, the Xceive XC 5000 silicon tuner) is attached as Exhibit 7.

45. At present, Silicon Labs has identified CrestaTech and the Hauppauge Respondents as respondents that have violated Section 337 with respect to the '441 Patent. However, because discovery may reveal that additional downstream respondents also have violated Section 337 with respect to the '441 patent, Silicon Labs reserves all rights to supplement its allegations to identify additional respondents that have violated Section 337 with respect to the '441 Patent.

VII. SPECIFIC INSTANCES OF UNFAIR IMPORTATION AND SALE

46. On information and belief, Respondents import, sell for importation and/or sell within the United States after importation the infringing articles. The specific instances of importation of infringing articles set forth below are representative examples of Respondents' unlawful importation of infringing articles.

47. An exemplary Infringing Product, Hauppauge! WinTV-HVR Hybrid TV Stick 950Q, model 1191,⁷ was sold in the United States on March 27, 2014. The receipt for this purchase is attached as Exhibit 8. According to the product packaging and labels, the Hauppauge! WinTV-HVR Hybrid TV Stick 950Q, model 1191 is manufactured in Indonesia. (See Exhibit 9, photograph of the Hauppauge! WinTV-HVR Hybrid TV Stick 950Q, model 1191 indicating that device is a "Product of Indonesia"). A CrestaTech Xceive XC 5000 silicon tuner was found inside the Hauppauge! WinTV-HVR Hybrid TV Stick 950Q, model 1191. (See Exhibit 10, photograph of the CrestaTech Xceive XC 5000 inside the Hauppauge! WinTV-HVR Hybrid TV Stick 950Q, model 1191.) Thus, the Hauppauge! WinTV-HVR Hybrid TV Stick 950Q, model 1191 and the CrestaTech Xceive 5000 silicon tuner are imported into the United States.

48. An exemplary Infringing Product, the Hauppauge! WinTV-HVR-850, model 1230,⁸ was sold in the United States on April 10, 2014. The receipt for this

⁷ This physical exhibit is available upon request.

⁸ This physical exhibit is available upon request.

purchase is attached as Exhibit 11. According to the product packaging and labels, the Hauppauge! WinTV-HVR-850, model 1230 is assembled in Indonesia. (See Exhibit 12 at pg. 3, photograph of the Hauppauge! WinTV-HVR-850, model 1230 packaging indicating that device is “Assembled in Indonesia”). An Xceive XC 5000 silicon tuner was found inside the Hauppauge! WinTV-HVR-850, model 1230. (See Exhibit 13, photograph of the CrestaTech Xceive XC 5000 inside the Hauppauge! WinTV-HVR-850, model 1230.) Thus, the Hauppauge! WinTV-HVR-850, model 1230 and the Xceive XC 5000 silicon tuner are imported into the United States.

49. An exemplary Infringing Product, Hauppauge! PCTV HD PCI Card 800i,⁹ was sold in the United States on April 10, 2014. The receipt for this purchase is attached as Exhibit 14. According to the product packaging and labels, the Hauppauge! PCTV HD PCI Card 800i is manufactured in China. (See Exhibit 15 at pg. 2, photograph of the Hauppauge! PCTV HD PCI Card 800i packaging indicating that the device is “Manufactured in China”). A CrestaTech Xceive XC 5000 silicon tuner was found inside the Hauppauge! PCTV HD PCI Card 800i. (See Exhibit 16, photograph of the CrestaTech Xceive XC 5000 inside the Hauppauge! PCTV HD PCI Card 800i.) Thus, the Hauppauge! PCTV HD PCI Card 800i and the Xceive XC 5000 silicon tuner are imported into the United States.

⁹ This physical exhibit is available upon request.

50. Exemplary products, CrestaTech Xceive XC 5000 silicon tuners and CrestaTech X7 silicon television tuners¹⁰ were sold in the United States on April 14, 2014, by a vendor in China. (See Exhibit 17, purchase orders for CrestaTech Xceive XC 5000 silicon tuners and CrestaTech X7 silicon tuners indicating that the source country is China). The CrestaTech Xceive XC 5000 silicon tuners and CrestaTech X7 silicon tuners were shipped from China to San Jose, California. (Exhibit 18, FedEx shipping receipt indicating shipment from China to San Jose, California). Thus, the CrestaTech Xceive XC 5000 silicon tuner and the CrestaTech X7 silicon tuner are imported into the United States.

VIII. HARMONIZED TARIFF SCHEDULE ITEM NUMBERS

51. On information and belief, the accused products fall within at least the following classification of the Harmonized Tariff Schedule (“HTS”) of the United States: 8542.39.0000 (integrated circuits) and 8529.90.0100 (tuners). The HTS number is intended to be for illustration only and is not exhaustive of the products accused of infringement in this Complaint. The HTS number is not intended to limit the scope of the Investigation.

¹⁰ This physical exhibits are available upon request.

IX. RELATED LITIGATION

52. The '372 and '441 patents were the subject of a declaratory judgment complaint filed by MaxLinear Inc. on May 13, 2012, in *MaxLinear Inc. v. Silicon Laboratories Inc.*, Civil Action 12-cv-1161-H-MDD, previously pending in the Southern District of California. The case was dismissed on October 21, 2013.

53. The '441 patent was also the subject of a complaint filed by Silicon Labs on August 16, 2010, in *Silicon Laboratories Inc. v. Airoha Technology Corp.*, Civil Action 10-cv-00607, previously pending in the Western District of Texas. That case was dismissed on December 21, 2011.

X. THE DOMESTIC INDUSTRY

54. There is a domestic industry, as defined under 19 U.S.C. § 1337(a)(3)(A), (B), and (C), comprising significant investments in physical operations, employment of labor and capital and exploitation of the Asserted Patents.

A. Silicon Labs' Practice of the Asserted Patents

55. Silicon Labs makes extensive use of the Asserted Patents in numerous different products. Silicon Labs currently makes and sells silicon television tuners. Silicon Labs' silicon television tuner products practice one or more claims of each of the Asserted Patents. In particular, the Silicon Labs' Si2178 silicon television tuner¹¹

¹¹ Physical exhibit available upon request.

practices at least claim 1 of the '372 patent and at least claim 1 of the '441 patent. Specific examples of use are described in this section, below, and charted in associated exhibits.

56. The '372 patent is practiced by Silicon Labs' silicon television tuner products including, without limitation, the Si2178 silicon television tuner. A claim chart comparing an Si2178 chip to exemplary claim 1 of the '372 patent is attached as Confidential Exhibit 19C.

57. The '441 patent is practiced by Silicon Labs' silicon television tuner products including, without limitation, the Si2178 silicon television tuner. A claim chart comparing an Si2178 chip to exemplary claim 1 of the '441 patent is attached as Confidential Exhibit 20C.

B. Silicon Labs' Investments In The Domestic Industry

58. Silicon Labs makes extensive use of the inventions claimed in the Asserted Patents in its silicon tuner products. The silicon tuner products are developed in the United States, manufactured abroad, and sold within the United States. As set forth in greater detail above, these products practice each of the Asserted Patents.

59. Silicon Labs has made significant investment in plant and equipment with respect to the Silicon Labs products that practice the Asserted Patents. Silicon Labs' headquarters is located in Austin, Texas. Silicon Labs' headquarter facilities consist of two buildings, which were purchased in 2012, and are located on land which leased through 2099. These buildings contain approximately 441,000 square feet of floor space, of which approximately 111,000 square feet is leased to other tenants. The corporate headquarters are used for research and development and corporate functions. Silicon

Labs also leases other facilities in various locations in the United States: Nashua, New Hampshire; Atlanta, Georgia; Portland, Oregon; Detroit, Michigan; St. Paul, Minnesota; Sunnyvale, California; Boston, Massachusetts; Irvine, California; and Huntsville Alabama. Substantially all of the research, development, design, engineering, and testing of the Silicon Labs' products that practice the Asserted Patents was done by Silicon Labs employees using or working within Silicon Labs' headquarters or facilities in Austin.

60. Silicon Labs has made substantial investments in the Silicon Labs products that practice the Asserted Patents, including, by way of example, investments in engineering, research, and development. Detailed information regarding Silicon Labs' research and development expenditures may be found in the accompanying Confidential Declaration of James Stansberry. (*See* Exhibit 21C, Stansberry Decl., ¶¶ 25-27.)

61. Silicon Labs has been and is engaged in a significant employment of labor with respect to the Silicon Labs products that practice the Asserted Patents. Silicon Labs has approximately 1,060 full-time equivalent employees. Most of Silicon Labs key employees are located in Austin, Texas. Substantially all of the research, development, design, engineering, and testing of the Silicon Labs products that practice the Asserted Patents was done by Silicon Labs employees working within the United States.

62. Additional confidential business information regarding Silicon Labs' investments in plant, equipment, labor, and research and development related to products that incorporate technology protected by the Asserted Patents is set forth in the accompanying Stansberry Declaration.

63. Silicon Labs' investments in the relevant domestic industry are continuing and ongoing.

XI. RELIEF REQUESTED

64. WHEREFORE, by reason of the foregoing, Silicon Labs respectfully requests that the United States International Trade Commission:

(a) Institute an immediate investigation, pursuant to Section 337 of the Tariff Act of 1930, as amended, 19 U.S.C. § 1337(a)(1)(B)(i) and (b)(1), with respect to violations of Section 337 based on the importation, sale for importation, and sale after importation, into the United States of Respondents' silicon tuners, and products containing same, including television tuners made on behalf of Respondents, that infringe one or more asserted claims of the '372 and '441 patents;

(b) Schedule and conduct a hearing on said unlawful acts and, following said hearing;

(c) Issue a general exclusion order, pursuant to 19 U.S.C. § 1337(d), excluding from entry into the United States articles that infringe the Asserted Patents, and/or issue a limited exclusion order, pursuant to 19 U.S.C. § 1337(d), barring from entry into the United States all silicon tuners, and products containing same, including television tuners made by or on behalf of Respondents that infringe one or more asserted claims of the '372 and '441 patents;

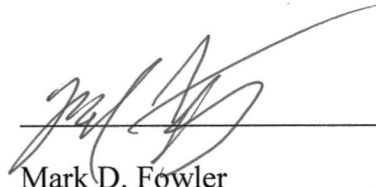
(d) Issue a permanent cease and desist order, pursuant to 19 U.S.C. § 1337(f), prohibiting Respondents, and others acting on their behalf, from importing, marketing, advertising, demonstrating, warehousing inventory for distribution, distributing, offering for sale, selling, licensing, using, or transferring outside the United States for sale in the United States any silicon tuners, and products containing same,

including television tuners, that infringe one or more asserted claims of the '372 and '441 patents; and

(e) Grant such other and further relief as the Commission deems just and proper based on the facts determined by the investigation and the authority of the Commission.

Dated: May 5, 2014

Respectfully Submitted



Mark D. Fowler
Aaron Wainscoat
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