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11 12 13	Attorneys for Plaintiff Avago Technologies General IP (Singapore) Pte. Ltd.	
14	UNITED STATES	S DISTRICT COURT
	FOR THE NORTHERN DISTRICT OF CALIFORNIA	
15	FOR THE NORTHERN D	DISTRICT OF CALIFORNIA
15 16	FOR THE NORTHERN D	DISTRICT OF CALIFORNIA
16 17	AVAGO TECHNOLOGIES GENERAL IP (SINGAPORE) PTE. LTD.,	COMPLAINT FOR PATENT INFRINGEMENT
16	AVAGO TECHNOLOGIES GENERAL IP (SINGAPORE) PTE. LTD., Plaintiff,	COMPLAINT FOR PATENT
16 17 18	AVAGO TECHNOLOGIES GENERAL IP (SINGAPORE) PTE. LTD.,  Plaintiff,  v.	COMPLAINT FOR PATENT INFRINGEMENT
16 17 18 19	AVAGO TECHNOLOGIES GENERAL IP (SINGAPORE) PTE. LTD.,  Plaintiff,  v.  ACER INC. and ACER AMERICA CORP.,	COMPLAINT FOR PATENT INFRINGEMENT
16 17 18 19 20 21	AVAGO TECHNOLOGIES GENERAL IP (SINGAPORE) PTE. LTD.,  Plaintiff,  v.	COMPLAINT FOR PATENT INFRINGEMENT
16 17 18 19 20 21 22	AVAGO TECHNOLOGIES GENERAL IP (SINGAPORE) PTE. LTD.,  Plaintiff,  v.  ACER INC. and ACER AMERICA CORP.,	COMPLAINT FOR PATENT INFRINGEMENT
16 17 18 19 20 21 22 23	AVAGO TECHNOLOGIES GENERAL IP (SINGAPORE) PTE. LTD.,  Plaintiff,  v.  ACER INC. and ACER AMERICA CORP.,	COMPLAINT FOR PATENT INFRINGEMENT
16 17 18 19 20	AVAGO TECHNOLOGIES GENERAL IP (SINGAPORE) PTE. LTD.,  Plaintiff,  v.  ACER INC. and ACER AMERICA CORP.,	COMPLAINT FOR PATENT INFRINGEMENT
16 17 18 19 20 21 22 23 24	AVAGO TECHNOLOGIES GENERAL IP (SINGAPORE) PTE. LTD.,  Plaintiff,  v.  ACER INC. and ACER AMERICA CORP.,	COMPLAINT FOR PATENT INFRINGEMENT
16 17 18 19 20 21 22 23 24 25	AVAGO TECHNOLOGIES GENERAL IP (SINGAPORE) PTE. LTD.,  Plaintiff,  v.  ACER INC. and ACER AMERICA CORP.,	COMPLAINT FOR PATENT INFRINGEMENT

Plaintiff AVAGO TECHNOLOGIES GENERAL IP (SINGAPORE) PTE. LTD ("Avago") files this Complaint for Patent Infringement relating to several U.S. patents as identified below (collectively, the "Patents-in-Suit") and alleges as follows:

#### **PARTIES**

- 1. Plaintiff Avago is a corporation with a tax registration number 2005-12430-D formed under the laws of the country of Singapore with its principal places of business at 1320 Ridder Park Dr., San Jose, California 95131 and 1 Yishun Avenue 7, Singapore 768923.
- 2. Defendant Acer Inc. is a corporation formed under the laws of Taiwan R.O.C., with its principal place of business at 8F., No. 88, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221, Taiwan, R.O.C.
- 3. Defendant Acer America Corp. ("AAC") is a corporation formed under the laws of the State of California, with its principal place of business at 333 West San Carlos Street, Suite 1500, San Jose, California 95110.
- 4. AAC is a subsidiary of Acer Inc. AAC and Acer Inc. (collectively, "Acer") acted in concert with regard to the allegations set forth in this Complaint and, therefore, the conduct described herein is fairly attributable to either or both entities.

#### JURISDICTION AND VENUE

- 5. Avago brings this civil action for patent infringement pursuant to the Patent Laws of the United States, 35 U.S.C. § 1 *et. seq.*, including 35 U.S.C. §§ 271, 281-285. This Court has subject matter jurisdiction over this action pursuant to 28 U.S.C. §§ 1331 and 1338.
- 6. Upon information and belief, Acer transacts and conducts business in this District and the State of California, and is subject to the personal jurisdiction of this Court. Upon information and belief, Acer has minimum contacts within the State of California and this District and has purposefully availed itself of the privileges of conducting business in the State of California and in this District by, *inter alia*, maintaining its regional headquarters in this District. Avago's causes of action arise directly from Acer's business contacts and other activities in the State of California and in this District.
  - 7. Upon information and belief, Acer has committed acts of infringement, both directly

and indirectly, within this District and the State of California by, *inter alia*, selling, offering for sale, importing, advertising, and/or promoting products that infringe one or more claims of the Patents-in-Suit. More specifically, Acer, directly and/or through intermediaries, uses, sells, ships, distributes, offers for sale, advertises and otherwise promotes its products in the United States, the State of California, and this District.

- 8. Upon information and belief, Acer solicits customers in the State of California and this District, and has many customers who are residents of the State of California and this District and who use Acer's products in the State of California and in this District.
  - 9. Venue is proper in this district under 28 U.S.C. §§ 1391 and 1400(b).

#### THE PATENTS-IN-SUIT

- 10. On February 9, 1999, the U.S. Patent and Trademark Office ("USPTO") duly and legally issued U.S. Patent No. 5,870,087, titled "MPEG Decoder System and Method Having a Unified Memory for Transport Decode and System Controller Functions," to Kwok Kit Chau (the "087 Patent"). A true and correct copy of the '087 Patent is attached as Exhibit A to this Complaint.
- 11. On February 13, 2001, the USPTO duly and legally issued U.S. Patent No. 6,188,835, titled "Optical Disk System and Method for Storing Data Allowing Playback of Selected Portions of Recorded Presentations," to Brett J. Grandbois (the "835 Patent"). A true and correct copy of the '835 Patent is attached as Exhibit B to this Complaint.
- 12. On August 6, 2002, the USPTO duly and legally issued U.S. Patent No. 6,430,148, titled "Multidirectional Communication Systems," to Steven Richard Ring (the "148 Patent"). A true and correct copy of the '148 Patent is attached as Exhibit C to this Complaint.
- 13. On January 3, 2006, the USPTO duly and legally issued U.S. Patent No. 6,982,663, titled "Method and System for Symbol Binarization," to Lowell Winger (the "'663 Patent"). A true and correct copy of the '663 Patent is attached as Exhibit D to this Complaint.
- 14. On June 1, 2004, the USPTO duly and legally issued U.S. Patent No. 6,744,387, titled "Method and System for Symbol Binarization," to Lowell Winger (the "'387 Patent"). A true and correct copy of the '387 Patent is attached as Exhibit E to this Complaint.

- 15. On November 9, 1999, the USPTO duly and legally issued U.S. Patent No. 5,982,830, titled "Hysteretic Synchronization System For MPEG Audio Frame Decoder," to Greg Maturi and Gregg Dierke (the "'830 Patent"). A true and correct copy of the '830 Patent is attached as Exhibit F to this Complaint.
- 16. By assignment, Avago owns all right, title, and interest in and to the Patents-in-Suit, including but not limited to the right to enforce the Patents-in-Suit and collect damages for past and future infringements.

# (Infringement of U.S. Patent No. 5,870,087)

- 17. Avago incorporates by reference each and every allegation in the preceding paragraphs.
- 18. Acer is making, using, offering to sell, selling and/or importing into the United States products, including but not limited to Acer Model No. VN7-592G-71ZL, that infringe at least Claim 1 of the '087 Patent. On information and belief, Acer Model No. VN7-592G-71ZL includes an NVIDIA GeForce GTX 960M graphics processing unit that includes an MPEG decoder system that includes a single memory for use by transport, decode, and system controller functions. On information and belief, the system includes a channel receiver for receiving an MPEG encoded stream; transport logic coupled to the channel receiver which demultiplexes one or more multimedia data streams from the encoded stream; a system controller coupled to the transport logic which controls operations within the MPEG decoder system; an MPEG decoder coupled to receive one or more multimedia data streams output from the transport logic, wherein the MPEG decoder operates to perform MPEG decoding on the multimedia data streams. On information and belief, a memory is coupled to the MPEG decoder, the memory is used by the MPEG decoder during MPEG decoding operations, the memory stores code and data useable by the system controller which enables the system controller to perform control functions within the MPEG decoder system, and the memory is used by the transport logic for demultiplexing operations. On information and belief, the MPEG decoder is operable to access the memory during MPEG decoding operations; the transport logic is operable to access the memory to store and retrieve data during demultiplexing

operations; and the system controller is operable to access the memory to retrieve code and data during system control functions.

- 19. Upon information and belief, Acer had actual knowledge of the '087 Patent at least as early as January 9, 2014, and at least since that date has had actual knowledge that one or more of its products infringes one or more claims of the '087 Patent.
- 20. On information and belief, Defendants have induced and will continue to induce the infringement of at least one claim of the '087 patent, in violation of 35 U.S.C. § 271(b), by, among other things, actively and knowingly aiding and abetting others (including Defendants' customers and end users) through activities such as marketing Acer products, creating and/or distributing data sheets, application notes, and/or similar materials with instructions on using Acer products, with the specific intent to induce others to directly make, use, offer for sale, sell, and/or import into the United States, without license or authority from Plaintiff, Acer products that fall within the scope of the '087 patent. On information and belief, Defendants know that the induced acts constitute infringement of the '087 patent.
- 21. Upon information and belief, Acer's infringement has been, and continues to be, willful and deliberate, and has caused substantial damage to Avago.
- 22. The infringement of the '087 Patent by Acer will continue unless enjoined by this Court.
- 23. The infringing activities by Acer have caused and will continue to cause irreparable injury to Avago for which there exists no adequate remedy at law.

# COUNT

### (Infringement of U.S. Patent No. 6,188,835)

- 24. Avago incorporates by reference each and every allegation in the preceding paragraphs.
- 25. Acer is making, using, offering to sell, selling and/or importing into the United States products, including but not limited to Acer Model No. E5-573-39K5, that infringe at least Claim 8 of the '835 Patent. Acer Model No. E5-573-39K5 is a laptop with a DVD disk system. DVDs are optical disks. Acer Model No. E5-573-39K5 contains a disk drive that retrieves from an

COMPLAINT FOR PATENT INFRINGEMENT

optical disk identification data (such as the disk title, which identifies the optical disk), encoded
video data (such as MPEG-2 encoded audio and video information, i.e., a presentation such as a
movie or television program) and navigation data (such as timecodes and chapter starts). Acer
Model No. E5-573-39K5 includes a touchpad, which is an input device configured to produce an
output signal in response to user input. Acer Model No. E5-573-39K5 includes software that allows
a user to create bookmarks using the touchpad. Bookmarks indicate a beginning of a selected
portion of the presentation, namely, the portion of the presentation that occurs after the bookmark.
Acer Model No. E5-573-39K5 includes a hard disk, which is a non-volatile memory for storage of
identification data and navigation data. Acer Model No. E5-573-39K5 also includes a CPU (a
microprocessor) coupled to receive the identification data and the navigation data from the disk
drive. The CPU also receives the output signal from the input device. The CPU is coupled to the
hard disk. Acer Model No. E5-573-39K5 operates in a "save index mode" when a presentation is
being played by a user and a bookmark can be created at any instant using the input device. Acer
Model No. E5-573-39K5 operates in a "play index mode" when the bookmark viewer screen has
been accessed by the user, meaning that the user can double click on any previously created
bookmark and jump to the beginning of the portion of the presentation associated with that
bookmark. During playback of a movie, the user may use the touchpad to create a bookmark. In
doing so, the output signal of the touchpad indicates the beginning of the user selected portion of
the presentation currently being played, as the user selected portion is a portion of the presentation
subsequent to the bookmark. The CPU responds to the output signal by producing the current
timecode (navigation data), which identifies the beginning of the user selected portion of the
presentation currently being played, and storing the identification data and the current navigation
data in the hard disk. The identification data and the current navigation data exist concurrently in
the hard disk and are associated with each other.

- 26. Upon information and belief, Acer had actual knowledge of the '835 Patent at least as early as November 17, 2008, and at least since that date has had actual knowledge that one or more of its products infringes one or more claims of the '835 Patent.
  - 27. On information and belief, Defendants have induced and will continue to induce the

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infringement of at least one claim of the '835 patent, in violation of 35 U.S.C. § 271(b), by, among other things, actively and knowingly aiding and abetting others (including Defendants' customers and end users) through activities such as marketing Acer products, creating and/or distributing data sheets, application notes, and/or similar materials with instructions on using Acer products, with the specific intent to induce others to directly make, use, offer for sale, sell, and/or import into the United States, without license or authority from Plaintiff, Acer products that fall within the scope of the '835 patent. On information and belief, Defendants know that the induced acts constitute infringement of the '835 patent.

- 28. Upon information and belief, Acer's infringement has been, and continues to be, willful and deliberate, and has caused substantial damage to Avago.
- 29. The infringement of the '835 Patent by Acer will continue unless enjoined by this Court.
- 30. The infringing activities by Acer have caused and will continue to cause irreparable injury to Avago for which there exists no adequate remedy at law.

#### COUNT 3 (Infringement of U.S. Patent No. 6,430,148)

- 31. Avago incorporates by reference each and every allegation in the preceding paragraphs.
- 32. Acer is making, using, offering to sell, selling and/or importing into the United States products, including but not limited to Acer Model No. SW5-271-64V2, that infringe at least Claim 8 of the '148 Patent. On information and belief Acer Model No. SW5-271-64V2 is a laptop that is compatible with at least versions b, g, n, and ac of the IEEE 802.11 Standard. As an 802.11-compatible product, Acer Model No. SW5-271-64V2 is an apparatus for use in an OFDM communication system. Acer Model No. SW5-271-64V2 comprises a first OFDM device for communicating with a second OFDM device at a remote station. Acer Model No. SW5-271-64V2 is configured to add a pilot signal to a plurality of data signals, generate a plurality of sub-carrier signals by modulating the pilot signals and data signals, and generate a plurality of sub-carrier frequency signals by performing an inverse fast Fourier transformation on the sub-carrier signals for

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transmission to the remote station.

- 33. Upon information and belief, Acer had actual knowledge of the '148 Patent at least as early as November 24, 2015 based on letters sent by Plaintiff, and at least since that date has had actual knowledge that one or more of its products infringes one or more claims of the '148 Patent.
- 34. On information and belief, Defendants have induced and will continue to induce the infringement of at least one claim of the '148 patent, in violation of 35 U.S.C. § 271(b), by, among other things, actively and knowingly aiding and abetting others (including Defendants' customers and end users) through activities such as marketing Acer products, creating and/or distributing data sheets, application notes, and/or similar materials with instructions on using Acer products, with the specific intent to induce others to directly make, use, offer for sale, sell, and/or import into the United States, without license or authority from Plaintiff, Acer products that fall within the scope of the '148 patent. On information and belief, Defendants know that the induced acts constitute infringement of the '148 patent.
- 35. Upon information and belief, Acer's infringement has been, and continues to be, willful and deliberate, and has caused substantial damage to Avago.
- 36. The infringement of the '148 Patent by Acer will continue unless enjoined by this Court.
- 37. The infringing activities by Acer have caused and will continue to cause irreparable injury to Avago for which there exists no adequate remedy at law.

#### COUNT 4 (Infringement of U.S. Patent No. 6,982,663)

- 38. Avago incorporates by reference each and every allegation in the preceding paragraphs.
- 39. Acer is making, using, offering to sell, selling and/or importing into the United States products, including but not limited to Acer Model No. VN7-592G-71ZL, that infringe at least claim 11 of the '663 Patent. On information and belief, Acer Model No. VN7-592G-71ZL includes an NVIDIA GeForce GTX 960M graphics processing unit that includes decoder circuitry that is configured to generate and decode UEG(k) encoded syntax elements, or "codewords," as described

in the H.264 Standard. On information and belief, the VN7-592G-71ZL accomplishes this by setting the index value to a threshold in response to a first portion of the decoder-generated codeword having a first pattern; adding an offset to the index value based on a second pattern in a second portion of the codeword following the first portion in response to the first portion having the first pattern; and adding a value to the index value based on a third pattern in a third portion of the codeword following the second portion in response to the first portion having the first pattern.

- 40. Upon information and belief, Acer had actual knowledge of the '663 Patent at least as early as April 21, 2008, and at least since that date has had actual knowledge that one or more of its products infringes one or more claims of the '663 Patent.
- 41. On information and belief, Defendants have induced and will continue to induce the infringement of at least one claim of the '663 patent, in violation of 35 U.S.C. § 271(b), by, among other things, actively and knowingly aiding and abetting others (including Defendants' customers and end users) through activities such as marketing Acer products, creating and/or distributing data sheets, application notes, and/or similar materials with instructions on using Acer products, with the specific intent to induce others to directly make, use, offer for sale, sell, and/or import into the United States, without license or authority from Plaintiff, Acer products that fall within the scope of the '663 patent. On information and belief, Defendants know that the induced acts constitute infringement of the '663 patent.
- 42. Upon information and belief, Acer's infringement has been, and continues to be, willful and deliberate, and has caused substantial damage to Avago.
- 43. The infringing activities by Acer have caused and will continue to cause irreparable injury to Avago for which there exists no adequate remedy at law.

#### COUNT 5 (Infringement of U.S. Patent No. 6,744,387)

- 44. Avago incorporates by reference each and every allegation in the preceding paragraphs.
- 45. Acer is making, using, offering to sell, selling and/or importing into the United States products, including but not limited to Acer Model No. VN7-592G-71ZL, that infringe at least

claim 3 of the '387 Patent. On information and belief, Acer Model No. VN7-592G-71ZL includes an NVIDIA GeForce GTX 960M graphics processing unit that includes an encoder that performs UEG(k) encoding of syntax elements or "index values" as described in the H.264 Standard. On information and belief, the VN7-592G-71ZL encoder accomplishes this by determining if a particular index value is less than a threshold value and, if so, the decoder constructs a codeword using a unary binarization; otherwise, the encoder constructs a codeword in a way that includes using exp-Golomb binarization.

- 46. Upon information and belief, Acer had actual knowledge of the '387 Patent at least as early as January 9, 2014, and at least since that date has had actual knowledge that one or more of its products infringes one or more claims of the '387 Patent.
- 47. On information and belief, Defendants have induced and will continue to induce the infringement of at least one claim of the '387 patent, in violation of 35 U.S.C. § 271(b), by, among other things, actively and knowingly aiding and abetting others (including Defendants' customers and end users) through activities such as marketing Acer products, creating and/or distributing data sheets, application notes, and/or similar materials with instructions on using Acer products, with the specific intent to induce others to directly make, use, offer for sale, sell, and/or import into the United States, without license or authority from Plaintiff, Acer products that fall within the scope of the '387 patent. On information and belief, Defendants know that the induced acts constitute infringement of the '387 patent.
- 48. Upon information and belief, Acer's infringement has been, and continues to be, willful and deliberate, and has caused substantial damage to Avago.
- 49. The infringing activities by Acer have caused and will continue to cause irreparable injury to Avago for which there exists no adequate remedy at law.

#### COUNT 6 (Infringement of U.S. Patent No. 5,982,830)

- 50. Avago incorporates by reference each and every allegation in the preceding paragraphs.
  - 51. Acer is making, using, offering to sell, selling and/or importing into the United

States products, including but not limited to Acer Model No. A3-A20-K1AY, that infringe at least claim 1 of the '830 Patent. On information and belief, the Acer Model No. A3-A20-K1AY includes a MediaTek MT8127 processor and/or software capable of or adapted to decode digital audio datastreams (e.g., MPEG audio, etc.), and is capable of or adapted to synchronize a data processing unit to a bitstream having synchronization codes successively spaced by a predetermined interval with data for processing disposed between the synchronization codes where said bitstream has a data header comprising a bitrate and a sampling frequency. In addition, on information and belief, the Acer Model No. A3-A20-K1AY includes a detector for detecting said synchronization codes, a sensor for sensing intervals between successive synchronization codes, and a comparator for comparing said intervals with said predetermined interval. On information and belief, the Acer Model No. A3-A20-K1AY includes a controller to determine whether the system is synchronized to the bitstream after the comparator has detected a first predetermined number of said intervals, and whether the system is unsynchronized to the bitstream after the comparator has detected a second predetermined number of said intervals. On information and belief, the Acer Model No. A3-A20-K1AY includes a header sensor for sensing said data header and calculating said predetermined interval from said information.

- 52. Upon information and belief, Acer had actual knowledge of the '830 Patent at least as early as January 9, 2014, and at least since that date has had actual knowledge that one or more of its products infringes one or more claims of the '830 Patent.
- 53. On information and belief, Defendants have induced and will continue to induce the infringement of at least one claim of the '830 patent, in violation of 35 U.S.C. § 271(b), by, among other things, actively and knowingly aiding and abetting others (including Defendants' customers and end users) through activities such as marketing Acer products, creating and/or distributing data sheets, application notes, and/or similar materials with instructions on using Acer products, with the specific intent to induce others to directly make, use, offer for sale, sell, and/or import into the United States, without license or authority from Plaintiff, Acer products that fall within the scope of the '830 patent. On information and belief, Defendants know that the induced acts constitute infringement of the '830 patent.

- 54. Upon information and belief, Acer's infringement has been, and continues to be, willful and deliberate, and has caused substantial damage to Avago.
- 55. The infringement of the '830 Patent by Acer will continue unless enjoined by this Court.
- 56. The infringing activities by Acer have caused and will continue to cause irreparable injury to Avago for which there exists no adequate remedy at law.

#### **PRAYER FOR RELIEF**

WHEREFORE, Avago requests that judgment be entered in its favor and against Acer as follows:

- A. Entering judgment declaring that Acer has infringed, directly and/or indirectly, literally and/or under the doctrine of equivalents, the Patents-in-Suit in violation of 35 U.S.C. § 271;
- B. Issuing preliminary and permanent injunctions enjoining Acer, its officers, agents, subsidiaries and employees, and those in privity or in active concert with them, from further activities that constitute infringement of U.S. Patent No. 5,870,087; U.S. Patent No. 6,188,835; U.S. Patent No. 6,430,148; and U.S. Patent No. 5,982,830, within the State of California and across the United States;
- C. Declaring that Acer's infringement of the Patents-in-Suit is willful and deliberate pursuant to 35 U.S.C. § 284;
- D. Ordering that Avago be awarded damages in an amount no less than a reasonable royalty for each asserted patent arising out of Acer's infringement of the Patents-in-Suit, together with costs, prejudgment, and post-judgment interest;
- E. Declaring this an exceptional case under 35 U.S.C. § 285 and awarding attorneys' fees and trebling of damages; and
- F. Awarding Avago such other costs and further relief as the Court deems just and proper.

#### **DEMAND FOR JURY TRIAL**

Pursuant to Rule 38 of the Federal Rules of Civil Procedure, Avago demands a trial by jury on all issues so triable.

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1	DATED: November 25, 2015	Respectfully submitted,
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