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UNITED STATES DISTRICT COURT
CENTRAL DISTRICT OF CALIFORNIA

The CALIFORNIA INSTITUTE OF
TECHNOLOGY, a California
corporation,

Plaintiff,

vs.

BROADCOM LIMITED,
BROADCOM CORPORATION,
AVAGO TECHNOLOGIES LIMITED,
and APPLE INC.

Defendants.

CASE NO. 2:16-cv-3714

**COMPLAINT FOR PATENT
INFRINGEMENT**

JURY TRIAL DEMANDED

1 Plaintiff the California Institute of Technology (“Caltech” or “Plaintiff”), by
2 and through its undersigned counsel, complains and alleges against Broadcom
3 Limited (“Broadcom Ltd.”), Broadcom Corporation (“Broadcom Corp.”), and
4 Avago Technologies Limited (“Avago Technologies Ltd.”) (collectively,
5 “Broadcom”) and Apple Inc. (“Apple”) (collectively “Defendants”) as follows:

6 **NATURE OF THE ACTION**

7 1. This is a civil action for patent infringement arising under the patent
8 laws of the United States, 35 U.S.C. §§ 1 *et seq.*

9 2. Broadcom has infringed and continues to infringe, contributed to and
10 continues to contribute to the infringement of, and/or actively induced and continues
11 to induce others to infringe Caltech’s U.S. Patent No. 7,116,710, U.S. Patent No.
12 7,421,032, U.S. Patent No. 7,916,781, and U.S. Patent No. 8,284,833 (collectively,
13 “the Asserted Patents”). Apple has infringed and continues to infringe, contributed
14 to and continues to contribute to the infringement of, and/or actively induced and
15 continues to induce others to infringe the Asserted Patents. Broadcom and Apple
16 have jointly infringed and continue to jointly infringe, jointly contributed to and
17 continue to jointly contribute to the infringement of, and/or jointly actively induced
18 and jointly continue to induce others to infringe the Asserted Patents.

19 3. Caltech is the legal owner by assignment of the Asserted Patents, which
20 were duly and legally issued by the United States Patent and Trademark Office.
21 Caltech seeks injunctive relief and monetary damages.

22 **THE PARTIES**

23 4. Caltech is a non-profit private university organized under the laws of
24 the State of California, with its principal place of business at 1200 East California
25 Boulevard, Pasadena, California 91125.

26 5. Caltech is a world-renowned science and engineering research and
27 education institution, where extraordinary faculty and students seek answers to
28 complex questions, discover new knowledge, lead innovation, and transform our

1 future. To date, 34 Caltech alumni and faculty have won a total of 35 Nobel Prizes.
2 Caltech's 124-acre campus is located in Pasadena, California including 300
3 professorial faculty and 600 research scholars. The mission of Caltech is to expand
4 human knowledge and benefit society through research integrated with education.
5 Caltech investigates the most challenging, fundamental problems in science and
6 technology in a singularly collegial, interdisciplinary atmosphere, while educating
7 outstanding students to become creative members of society. Caltech's investment
8 in research has led Caltech to have more patent invention disclosures per faculty
9 member than any other university in the nation and to be consistently ranked as one
10 of the top university patent portfolios in strength and number of patents issued.

11 6. On information and belief, Broadcom Ltd. is a corporation organized
12 under the laws of the country of Singapore with its principal places of business at
13 1320 Ridder Park Dr., San Jose, California 95131 and 1 Yishun Avenue 7,
14 Singapore 768923.

15 7. On information and belief, Broadcom Corp. is a California corporation
16 with a principal place of business at 5300 California Avenue, Irvine, California
17 92617. On information and belief, Broadcom Corp. is an indirect subsidiary of
18 Broadcom Ltd.

19 8. On information and belief, Avago Technologies Ltd. is a corporation
20 organized under the laws of the country of Singapore with its principal places of
21 business at 1320 Ridder Park Dr., San Jose, California 95131 and 1 Yishun Avenue
22 7, Singapore 768923. On information and belief, Avago Technologies Ltd. is an
23 indirect subsidiary of Broadcom Ltd.

24 9. On information and belief, Apple Inc. is a corporation organized under
25 the laws of the State of California, with its principal place of business at 1 Infinite
26 Loop, Cupertino, California 95014.

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1 **JURISDICTION AND VENUE**

2 10. This Court has jurisdiction over the subject matter of this action under
3 28 U.S.C. §§ 1331 and 1338(a).

4 11. Broadcom Ltd. is subject to this Court’s personal jurisdiction. On
5 information and belief, Broadcom Ltd. regularly conducts business in the State of
6 California, including in the Central District of California, and has committed acts of
7 patent infringement and/or contributed to or induced acts of patent infringement by
8 others in this District and elsewhere in California and the United States. As such,
9 Broadcom Ltd. has purposefully availed itself of the privilege of conducting
10 business within this District; has established sufficient minimum contacts with this
11 District such that it should reasonably and fairly anticipate being haled into court in
12 this District; has purposefully directed activities at residents of this State; and at
13 least a portion of the patent infringement claims alleged herein arise out of or are
14 related to one or more of the foregoing activities.

15 12. Broadcom Corp. is subject to this Court’s personal jurisdiction. On
16 information and belief, Broadcom Corp. regularly conducts business in the State of
17 California, including in the Central District of California, and has committed acts of
18 patent infringement and/or contributed to or induced acts of patent infringement by
19 others in this District and elsewhere in California and the United States. As such,
20 Broadcom Corp. has purposefully availed itself of the privilege of conducting
21 business within this District; has established sufficient minimum contacts with this
22 District such that it should reasonably and fairly anticipate being haled into court in
23 this District; has purposefully directed activities at residents of this State; and at
24 least a portion of the patent infringement claims alleged herein arise out of or are
25 related to one or more of the foregoing activities.

26 13. Avago Technologies Ltd. is subject to this Court’s personal
27 jurisdiction. On information and belief, Avago Technologies Ltd. regularly
28 conducts business in the State of California, including in the Central District of

1 California, and has committed acts of patent infringement and/or contributed to or
2 induced acts of patent infringement by others in this District and elsewhere in
3 California and the United States. As such, Avago Technologies Ltd. has
4 purposefully availed itself of the privilege of conducting business within this
5 District; has established sufficient minimum contacts with this District such that it
6 should reasonably and fairly anticipate being haled into court in this District; has
7 purposefully directed activities at residents of this State; and at least a portion of the
8 patent infringement claims alleged herein arise out of or are related to one or more
9 of the foregoing activities.

10 14. Apple Inc. is subject to this Court's personal jurisdiction. On
11 information and belief, Apple Inc. regularly conducts business in the State of
12 California, including in the Central District of California, and has committed acts of
13 patent infringement and/or contributed to or induced acts of patent infringement by
14 others in this District and elsewhere in California and the United States. As such,
15 Apple Inc. has purposefully availed itself of the privilege of conducting business
16 within this District; has established sufficient minimum contacts with this District
17 such that it should reasonably and fairly anticipate being haled into court in this
18 District; has purposefully directed activities at residents of this State; and at least a
19 portion of the patent infringement claims alleged herein arise out of or are related to
20 one or more of the foregoing activities.

21 15. Venue is proper in this judicial district pursuant to 28 U.S.C. §§ 1391
22 and 1400 because Defendants regularly conduct business in this District, and certain
23 of the acts complained of herein occurred in this District.

24 **CALTECH'S ASSERTED PATENTS**

25 16. On October 3, 2006, the United States Patent Office issued U.S. Patent
26 No. 7,116,710, titled "Serial Concatenation of Interleaved Convolutional Codes
27 Forming Turbo-Like Codes" (the "'710 patent"). A true and correct copy of the
28 '710 patent is attached hereto as Exhibit A.

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