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ORIGINAL	1 2 3 4 5 6 7 8	QUINN EMANUEL URQUHART & SULLIVAN, LLP James R. Asperger (Bar No. 083188) jimasperger@quinnemanuel.com 865 S. Figueroa St., 10th Floor Los Angeles, California 90017 Telephone: (213) 443-3000 Facsimile: (213) 443-3100 Kevin P.B. Johnson (Bar No. 177129) kevinjohnson@quinnemanuel.com 555 Twin Dolphin Drive, 5th Floor Redwood Shores, California 94065 Telephone: (650) 801-5000 Facsimile: (650) 801-5100	CLERK, U.S. DISFRICT CONRT MAR 6 2014 CENTRADUSTRICT OF CALIFORNIA BY DESTRICT OF CALIFORNIA DEPUTY
	9	Attorneys for Plaintiff the California Institute of Technology	
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12		UNITED STATES DISTRICT COURT	
n Nu a	13		
	14		
•	15	The CALIFORNIA INSTITUTE OF TECHNOLOGY, a California	CASE NO. 2:13-cv-07245-MRP-JEM
	16	corporation,	AMENDED COMPLAINT FOR PATENT INFRINGEMENT
	17	Plaintiff,	JURY TRIAL DEMANDED
	18	VS.	JUNI INIAL DEMIANDED
	19	HUGHES COMMUNICATIONS, INC., a Delaware corporation,	
	20	HUGHES NETWORK SYSTEMS, LLC, a Delaware limited liability	
	21	company, DISH NETWORK CORPORATION, a Nevada	RECEIVED BUT NOT FILED CLERK, U.S. DISTRICT COURT
	22	corporation, DISH NETWORK L.L.C., a Colorado limited liability company,	MAR - 6 2014
	23	and DISHNET SATELLITE BROADBAND L.L.C., a Colorado	CENTRAL DISTRA OF CALIFORNIA
	24	limited liability company,	BY DEPUTY
	25	Defendants.	
	26		
	27		CALTECH - EXHIBIT 2018
	28	Apple	Inc. v. California Institute of Technology
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Plaintiff the California Institute of Technology ("Caltech" or "Plaintiff"), by
 and through its undersigned counsel, complains and alleges as follows against
 Hughes Communications, Inc., Hughes Network Systems, LLC, DISH Network
 Corporation, DISH Network L.L.C., and dishNET Satellite Broadband L.L.C.
 (collectively, "Defendants"):

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. Defendants have infringed and continue to infringe, contributed to and
10 continue to contribute to the infringement of, and/or actively induced and continue
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"). Caltech is the legal owner by assignment of the Asserted
14 Patents, which were duly and legally issued by the United States Patent and
15 Trademark Office. Caltech seeks injunctive relief and monetary damages.

16

THE PARTIES

17 3. Caltech is a non-profit private university organized under the laws of
18 the State of California, with its principal place of business at 1200 East California
19 Boulevard, Pasadena, California 91125.

20 4. On information and belief, Hughes Communications, Inc. ("Hughes 21 Communications") is a corporation organized under the laws of the State of Delaware, with its principal place of business located at 11717 Exploration Lane, 22 23 Germantown, Maryland 20876. On information and belief, Hughes Communications is a wholly-owned subsidiary of Hughes Satellite Systems 24 Corporation, which is a wholly-owned subsidiary of EchoStar Corporation 25 ("EchoStar"). 26

5. On information and belief, Hughes Network Systems, LLC ("Hughes
Network") is a limited liability company organized under the laws of the State of

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Delaware, with its principal place of business located at 11717 Exploration Lane,
 Germantown, Maryland 20876. On information and belief, Hughes Network is a
 wholly owned subsidiary of Hughes Communications. Hughes Communications
 and Hughes Network, collectively, are referred to as "Hughes Defendants."

6. On information and belief, DISH Network Corporation ("DISH Corp.")
is a corporation organized under the laws of the State of Nevada with its principal
place of business located at 9601 South Meridian Boulevard, Englewood, Colorado
80112.

9 7. On information and belief, DISH Network L.L.C. ("DISH L.L.C.") is a
10 limited liability company organized under the laws of the State of Colorado with its
11 principal place of business located at 9601 South Meridian Boulevard, Englewood,
12 Colorado 80112. On information and belief, DISH L.L.C. is a wholly owned
13 subsidiary of DISH Corp.

8. On information and belief, dishNET Satellite Broadband L.L.C.
("dishNET") is a limited liability company organized under the laws of the State of
Colorado with its principal place of business located at 9601 South Meridian
Boulevard, Englewood, Colorado 80112. On information and belief, dishNET is a
wholly owned subsidiary of DISH Corp. On information and belief, dishNET and
DISH L.L.C. are related entities. DISH Corp., DISH L.L.C., and dishNET,
collectively, are referred to as "Dish Defendants."

9. On information and belief, Hughes Defendants' parent company,
EchoStar, and Dish Defendants were previously one company. On information and
belief, around January 2008, EchoStar and Dish Defendants became two separate
companies (the "spin-off").

10. On information and belief, the business relationship among Dish
Defendants, EchoStar and Hughes Defendants remains extremely integrated. The
same individual serves as the Chairman of both Dish Defendants and EchoStar.
Further, since the spin-off, a substantial majority of the voting power of the shares

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of both Dish Defendants and EchoStar is owned beneficially by the Chairman, or by 1 2 certain trusts established by the Chairman. Additionally, on information and belief, in addition to the Chairman, an individual responsible for the development and 3 implementation of advanced technologies that are of potential utility and importance 4 5 to both Dish Defendants and EchoStar serves on the board of both companies. On information and belief, in 2010, Dish Defendants accounted for 82.5% of EchoStar's 6 total revenue and in 2012, Dish Defendants accounted for 49.5% of EchoStar's total 7 revenue. Additionally, on information and belief, in October 2012, Dish Defendants 8 9 and Hughes Defendants entered into a distribution agreement relating to Hughes Defendants' satellite internet service. 10

11

JURISDICTION AND VENUE

12 11. This Court has jurisdiction over the subject matter of this action under
13 28 U.S.C. §§ 1331 and 1338(a).

Hughes Defendants are subject to this Court's personal jurisdiction. On 14 12. information and belief, Hughes Defendants regularly conduct business in the State 15 16 of California, including in the Central District of California, and have committed 17 acts of patent infringement and/or contributed to or induced acts of patent infringement by others in this District and elsewhere in California and the United 18 19 States. As such, Hughes Defendants have purposefully availed themselves of the privilege of conducting business within this District; have established sufficient 20 21 minimum contacts with this District such that they should reasonably and fairly anticipate being haled into court in this District; have purposefully directed activities 22 at residents of this State; and at least a portion of the patent infringement claims 23 24 alleged herein arise out of or are related to one or more of the foregoing activities.

13. Dish Defendants are subject to this Court's personal jurisdiction. On
information and belief, Dish Defendants regularly conduct business in the State of
California, including in the Central District of California, maintain employees in this
District and elsewhere in California, and have committed acts of patent infringement

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

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

12

CALTECH'S ASSERTED PATENTS

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

17 16. On September 2, 2008, the United States Patent Office issued U.S.
18 Patent No. 7,421,032, titled "Serial Concatenation of Interleaved Convolutional
19 Codes Forming Turbo-Like Codes" (the "032 patent"). A true and correct copy of
20 the '032 patent is attached hereto as Exhibit B. The '032 patent is a continuation of
21 the application that led to the '710 patent.

17. On March 29, 2011, the United States Patent Office issued U.S. Patent
No. 7,916,781, titled "Serial Concatenation of Interleaved Convolutional Codes
Forming Turbo-Like Codes" (the "'781 patent"). A true and correct copy of the
'781 patent is attached hereto as Exhibit C. The '781 patent is a continuation of the
application that led to the '032 patent, which is a continuation of the application that
led to the '710 patent.

28

18. On October 9, 2012, the United States Patent Office issued U.S. Patent

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