Confidential -	Outside	Counsel	Only
----------------	---------	---------	------

		Page 1
1	UNITED STATES DISTRIC	CT COURT
2	CENTRAL DISTRICT OF CA	ALIFORNIA
3		
4	THE CALIFORNIA INSTITUTE OF	
5	TECHNOLOGY,	
б	Plaintiff and	
7	Counter-Defendants,	
8	vs.	Case No.
9	HUGHES COMMUNICATIONS,	2:13-cv-07245-MRP-JEM
10	HUGHES NETWORK SYSTEMS LLC, DISH	
11	NETWORK L.L.C., and DISHNET	
12	SATELLITE BROADBAND, L.L.C.,	
13	Defendant and	
14	Counter-Plaintiffs.	
15		/
16		
17	CONFIDENTIAL - OUTSIDE CO	DUNSEL ONLY
18		
19	VIDEOTAPED DEPOSITION OF BREN	IDAN FREY, Ph.D.
20	REDWOOD SHORES, CALI	FORNIA
21	TUESDAY, MARCH 10,	2015
22		
23	REPORTED BY:	
24		תו
21	JANIS JENNINGS, CSR 3942, CLR, CCF	(K

	Page 2
1	
2	
3	
4	
5	
б	DEPOSITION OF BRENDAN FREY, Ph.D., taken
7	on behalf of the Plaintiff and Counter-Defendants
8	at Quinn Emanuel Urquhart & Sullivan, LLP, commencing
9	at 9:03 a.m., Tuesday, March 10, 2015, before
10	Janis Jennings, Certified Shorthand Reporter
11	No. 3942, CLR, CCRR.
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

DOCKET ALARM Find authenticated court documents without watermarks at <u>docketalarm.com</u>. Confidential - Outside Counsel Only

Г

		Page	3
1	APPEARANCES OF COUNSEL:		
2			
3	ON BEHALF OF PLAINTIFF AND COUNTER-DEFENDANTS:		
4	QUINN EMANUEL URQUHART & SULLIVAN		
5	555 Twin Dolphin Drive		
б	Redwood Shores, California 94065		
7	BY: MARK TUNG, Ph.D., ESQ.		
8			
9			
10			
11			
12	ON BEHALF OF DEFENDANTS AND COUNTER-PLAINTIFFS	:	
13	WILMERHALE		
14	350 South Grand Avenue		
15	Los Angeles, California 90071		
16	BY: JAMES DOWD, ESQ.		
17	BRIAN SEEVE, ESQ.		
18			
19			
20			
21			
22	ALSO PRESENT:		
23	ALAN DIAS, Videographer		
24			
25			
L			

				Page 4
1	I N	DEX		
2				
3	DEPOSITION OF			
4	BRENDAN FREY, Ph.D.			
5				
б				
7			EXAMINATION	
8	BY MR. TUNG		8	
9				
10				
11				
12				
13				
14	QUESTIONS NOT AN	ISWERED BY W	NITNESS	
15				
16	PAGE	LINE		
17	23	б		
18	23	19		
19	47	4		
20	52	1		
21	141	11		
22	143	18		
23				
24				
25				

			Page 5
1		EXHIBITS	
2			
3	NUMBER	DESCRIPTION	PAGE
4	Exhibit 1	Curriculum Vitae of Brendan J. Frey	39
5			
6	Exhibit 2	Expert Report of Dr. Brendan Frey	80
7		Regarding Invalidity of Patents-In-	
8		Suit	
9			
10	Exhibit 3	Paper "Irregular Turbocodes";	82
11		HUGHES00001821 - 1828	
12			
13	Exhibit 4	Presentation "Irregular Turbo-Like	102
14		Codes"; HUGHES00513989 - 514001	
15			
16	Exhibit 5	Paper "Coding Theorems for 'Turbo-Like'	162
17		Codes"; HUGHES00001916 - 1925	
18			
19	Exhibit 6	United States Patent 7,116,710;	166
20		CALTECH000001152 - 1162	
21			
22	Exhibit 7	United States Patent 7,916,781;	187
23		CALTECH000001918 - 1929	
24			
25			

## DOCKET A L A R M



# Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

## **Real-Time Litigation Alerts**



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

### **Advanced Docket Research**



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

## **Analytics At Your Fingertips**



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

#### API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

#### LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

#### FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

#### E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.