

1 Filed on behalf of: Junior Party FAN

2 By: R. Danny Huntington, Esq.
3 Sharon E. Crane, Ph.D., Esq.
4 Rothwell, Figg, Ernst & Manbeck, P.C.
5 607 14th Street, N.W., Suite 800
6 Washington, DC, 20005
7 dhuntington@rfem.com
8 scrane@rfem.com
9 Main Telephone: (202) 783-6040
10 Main Facsimile: (202) 783-6031

11
12
13
14 UNITED STATES PATENT AND TRADEMARK OFFICE

15
16
17
18
19 BEFORE THE PATENT TRIAL AND APPEAL BOARD

20
21
22
23
24 HEI-MUN CHRISTINA FAN and STEPHEN QUAKE
25 Junior Party
26 (Patent 8,195,415),

27
28 v.

29
30 YUK-MING DENNIS LO, ROSSA WAI KWUN CHIU, and KWAN CHEE CHAN
31 Senior Party
32 (Application 13/070,266),

33
34
35
36
37 Patent Interference No. 105,922 (DK)
38 (Technology Center 1600)

39
40
41
42 **DECLARATION OF J. CHRIS DETTER, Ph.D.**

SEQUENOM EXHIBIT 1087



1 Filed on behalf of: Junior Party FAN

2 By: R. Danny Huntington, Esq.
3 Sharon E. Crane, Ph.D., Esq.
4 Rothwell, Figg, Ernst & Manbeck, P.C.
5 607 14th Street, N.W., Suite 800
6 Washington, DC, 20005
7 dhuntington@rfem.com
8 scrane@rfem.com
9 Main Telephone: (202) 783-6040
10 Main Facsimile: (202) 783-6031
11
12
13

14 UNITED STATES PATENT AND TRADEMARK OFFICE
15
16 _____
17

18
19 BEFORE THE PATENT TRIAL AND APPEAL BOARD
20
21 _____
22

23
24 HEI-MUN CHRISTINA FAN and STEPHEN QUAKE
25 Junior Party
26 (Patent 8,195,415),
27

28 v.
29

30 YUK-MING DENNIS LO, ROSSA WAI KWUN CHIU, and KWAN CHEE CHAN
31 Senior Party
32 (Application 13/070,266),
33

34 _____
35
36 Patent Interference No. 105,922 (DK)
37 (Technology Center 1600)
38
39 _____
40

41
42 **DECLARATION OF J. CHRIS DETTER, Ph.D.**

EXHIBIT 2050

QUAKE v. LO, Interference No. 105,920
FAN v. LO, Interference No. 105,922

1 The undersigned, J. Chris Detter, Ph.D., does hereby declare and state that:

2 1. I make the following declaration based on my knowledge and belief.

3 **My Educational and Professional Background**

4 2. I earned my B.S. in Biology at Baylor University in 1995 and my Ph.D. in
5 medical sciences (molecular genetics and microbiology) at University of Florida in Gainesville
6 in 1999.

7 3. After receiving my Ph.D., I worked as the Team and Technical Leader for the
8 Research and Development Genomic Technology Group at the Lawrence Livermore National
9 Laboratory (“LLNL”) as part of the Joint Genome Institute from September, 1999 until May,
10 2001, where I developed DNA library creation protocols and methods for high-throughput
11 sequencing for the human genome sequencing project.

12 4. From May, 2001 until September, 2005, I was the Group Leader in the
13 Genomics/Cloning Technology Group at LLNL, during which time I managed the high-
14 throughput library creation process for the Joint Genome Institute.

15 5. From September, 2005 until February, 2009, I was the Team Leader for the
16 Sequencing Technology Team at the Joint Genome Technology Group (B-6) at the Los Alamos
17 National Laboratory (“LANL”), during which time I managed a highly automated sequencing
18 team focused on the genome finishing process. Also, from October, 2006 until April, 2007, I
19 was acting Group Leader for the Joint Genome Institute-Genome Technology Group (B-5) in the
20 Bioscience Division of LANL, where I managed a diverse genomic sequencing and
21 computational biology group.

22 6. Since February, 2008, I have been the Genome Sciences Center Director and
23 Group Leader (B-6) at LANL, where I manage a diverse genomic sequencing and computational
24 biology group of about 45 individuals. In addition, since September, 2011, I have been the

1 Acting Bioscience Deputy Divisional Leader at LANL, in which position I assist the Division
2 Leader in programmatic, strategic and tactical mission areas for Bioscience. As of October 2012,
3 I am now the BioThreat, BioDefense Program Director for LANL.

4 7. I received additional technical training an automated DNA sequencing at Perkin-
5 Elmer Corporation in 1997, at Amersham in 1999, at Applied Biosystems in 2000, at Affymetrix
6 in 2000, at 454 Life Sciences in 2006, and I consider myself to be an expert on high-throughput
7 sequencing on the Roche 454, Illumina and Pacific Biosciences (PacBio) platforms.

8 8. I have published numerous scientific research papers in the areas of chromosomal
9 mapping and genome sequencing, as listed on my *curriculum vitae*, which is being submitted
10 with this declaration as Exhibit 2051.

11 **My Understanding of this Proceeding**

12 9. I am informed that a patent interference, identified above, has been declared
13 between a patent of Hei-Mun Christina Fan and Stephen Quake (collectively “Fan”) and an
14 application of Yun-Ming Dennis Lo, Rossa Wai Kwun Chiu, and Kwan Chee Chan (collectively
15 “Lo”).

16 10. I am informed the Fan patent in the interference is U.S. Patent No. 8,195,415,
17 which issued on June 5, 2012 (“the Fan ’415 patent”; Exhibit 2011) assigned to The Board of
18 Trustees of the Leland Stanford Junior University (“Stanford”).

19 11. I understand the Fan ’415 patent (Exhibit 2011) issued from U.S. Application
20 Serial No. 12/696,509, filed on January 29, 2010 (“the Fan ’509 application”; Exhibit 2012),
21 which published as U.S. Patent Publication No. 2010/0138165 on June 3, 2010 (“the Fan ’165
22 publication”; Exhibit 2013).

23 12. I am informed the Fan ’509 application (Exhibit 2012) is a divisional application
24 from U.S Application Serial No. 12/560,708, filed on September 16, 2009 (“the Fan ’708

1 application”; Exhibit 2014), which published as U.S. Patent Publication No. 2010/0112575 on
2 May 6, 2010 (“the Fan ’575 publication”; Exhibit 2023).

3 13. I am informed the Fan ’708 application (Exhibit 2014) claims the benefit of U.S.
4 Provisional Application Serial No. 61/098,758, filed on September 20, 2008 (“the Fan ’758
5 provisional”; Exhibit 2015).

6 14. I understand that the Fan ’415 patent is involved in the above-captioned
7 interference against U.S. Application Serial No. 13/070,266 filed on March 23, 2011 (“the Lo
8 ’266 application”; Exhibit 2016), which published as U.S. Patent Publication No. 2011/0003637
9 on January 5, 2012 (“the Lo ’637 publication”; Exhibit 2017).

10 15. I am informed the Lo ’266 application (Exhibit 2016) is a continuation application
11 from U.S. Application Serial No. 12/614,350, filed on November 6, 2009, and published as U.S.
12 Patent Publication No. 2010/0112590 on May 6, 2010 (“the Lo ’350 application”; Exhibit 2008),
13 which is a continuation-in-part from U.S. Application Serial No. 12/178,181, filed on July 23,
14 2008 (“the Lo ’181 application”; Exhibit 2009), and published as U.S. Patent Publication No.
15 2009/0029377 on January 29, 2009 (“the Lo ’377 publication”; Exhibit 2020), which claims the
16 benefit of U.S. Provisional Application Serial No. 60/951,438, filed on July 23, 2007 (“the Lo
17 ’438 provisional”; Exhibit 2010).

18 **Independent Witness**

19 16. I have been retained in this matter by Rothwell, Figg, Ernst & Manbeck, P.C. of
20 Washington, D.C. (“Rothwell”).

21 17. My main contacts at Rothwell are Sharon Crane, Ph.D., Esq., Seth Cockrum,
22 Ph.D., Esq., and Danny Huntington, Esq.

23 18. I have had no previous contact with Rothwell or these main contacts.

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.